



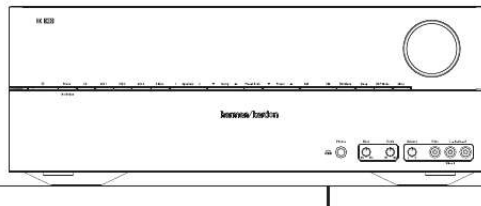
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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON HK 3490. You'll find the answers to all your questions on the HARMAN KARDON HK 3490 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HARMAN KARDON HK 3490
User guide HARMAN KARDON HK 3490
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HK 3490/HK 3390 Stereo Receiver

OWNER'S MANUAL



harman / kardon
Designed to Entertain™



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Manual abstract:

3 Heed all warnings. 4 Follow all instructions. 5 Do not use this apparatus near water. 6 Clean only with a dry cloth. 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. @@@@A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. @@10 Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.

11 Only use attachments/accessories specified by the manufacturer. 12 Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 13 Unplug this apparatus during lightning storms or when unused for long periods of time. 14 Refer all servicing to qualified service personnel.

@@@@@@18 Do not expose batteries to excessive heat such as sunshine, fire or the like. 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 product. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. 17 Troubleshooting Guide 18 Technical Specifications Typographical 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 specific remote control or front-panel button, or rear-panel connection jack EXAMPLE (OCR type) indicates a message that is visible on the front-panel information display 1 (number in a square) indicates a specific front panel control â (letter in a circle) indicates a button or indicator on the remote 0 (number in a circle) indicates a rear panel connection 2 TABLE OF CONTENTS Introduction Important Safety Information READ

THIS BEFORE OPERATING YOUR UNIT Do not install this equipment in a confined space such as a case or similar away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. Avoid installing this unit where foreign objects may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place: Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury. Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit. Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury. Install this unit near the AC outlet and where the AC power plug can be reached easily.

This unit is not disconnected from the AC power source as long as the ON/OFF Switch on the Rear Panel is ON. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power. WARNING. TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. Congratulations! With the purchase of the Harman Kardon HK 3490/HK 3390 you are about to begin many years of listening enjoyment. While sophisticated systems are hard at work within the HK 3490/HK 3390 to make all of this happen, hookup and operation are simple. Color-keyed connections and a comprehensive remote control make the HK 3490/HK 3390 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 HK 3490/HK 3390 is able to deliver. If you have any questions about this product, its installation or operation, please contact your dealer. He is your best local source of information. Description and Features Harman Kardon's HK 3490/HK 3390 is a fullfeatured Stereo receiver, with seven inputs and an FM stereo/FM/AM tuner with RDS capabilities that provide for the utmost flexibility. A highquality phono input is available so that you may continue to enjoy your existing record collection as well as the latest CD recordings.

The HK 3490/HK 3390's powerful amplifier uses traditional Harman Kardon High-Current Design philosophies to meet the wide dynamic range of any program selection. Harman Kardon invented the high-fidelity receiver more than fifty years ago. With state-of-the-art features and time-honored circuit designs, the HK 3490/HK 3390 is one of the finest receivers ever offered by Harman Kardon. I Harman Kardon Designed High-Current, Ultrawide Bandwidth Amplifier I Dolby Virtual Speaker for true surround experience from just two loudspeakers. I Four video inputs and a recording output I Front-panel audio/video inputs I Phono Input Section I Speaker 1/Speaker 2 Outputs for High- Quality Sound in Two Locations I Pre-Out/Main-In jacks for use with External Amplifiers, Equalizers or Speaker Processors I System Remote Control with Numeric Keys I Subwoofer Output I Tuner with RDS Data Program Information Displays I Connects to Harman Kardon's (optional) for charging, playback and control of a compatible Apple® iPod® device 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.

Installation Location I To assure proper operation, and to avoid the potential for safety hazards, place the unit on a firm and level surface, that can support the weight of the product. I 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. I Do not place the unit directly on a carpeted surface. I Avoid installation in extremely hot or cold locations, or an area that is exposed to direct sunlight or heating equipment. I Avoid moist or humid locations.



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I 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. 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. English Important Information Verify Line Voltage Before Use Your HK 3490/HK 3390 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 selling dealer before plugging the unit into a wall outlet. INTRODUCTION 3 Front Panel Controls 26 25 * (^ 5 23 L K L K 2 3 8 # ! \$ 6) 7 @ % & 4 20 21 22 1 24 9 1 Video 3 input jacks 2 System Power Control 3 Power Indicator 4 Headphone Jack 5 Mute 6 Speaker 1 Selector 7 Speaker 2 Selector 8 Phone Input Selector (The Bridge/Phono Input Selector HK 3490 only) 9 Tape Monitor Input Selector) Tuning Button ! Video 1 Input Selector @ Preset Scan # CD Input Selector \$ Video 2 Input Selector % Preset Selector ^ DSP Function Selector (HK 3490 only), Dimmer Switch (HK 3390 only). & FM/AM Selector * FM Mode Selector (Sleep Button Ó Bass Control Ô Treble Control Balance Control Ò Volume Control Ú Video 3 Input Selector Û Information Display Ü Remote Sensor Window 1 Video 3 Input Jacks: These audio/video jacks may be used for temporary connection to video games or portable audio/video products such as camcorders and portable audio players. To select the front-panel inputs, press the Video 3 Input Selector Û repeatedly until the Information Display shows the text "VIDEO F / ANALOG". When using the rear panel inputs, the Display shows "VIDEO 3 / ANALOG". 2 System Power Control: When the Main Power Switch S is "ON," press this button to turn on the HK 3490/HK 3390; press it again to turn the unit off (to Standby).

Note that the Power Indicator 3 changes color from amber to white when the unit is on.

3 Power Indicator: This LED will illuminate in amber 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 white. 4 Headphone Jack: This jack may be used to listen to the HK 3490/HK 3390's output through a pair of headphones.

Be certain that the headphones have a standard 6,3 mm stereo phone plug. When a headphone is connected, the Speakers 1 and Speakers 2 Selectors are inactive. 5 Mute: Press this button to momentarily silence the speaker and preamp output of the HK 3490/HK 3390. 6 Speakers 1 Selector: Press this button to turn the speakers connected to the Speaker 1 output terminals G on or off. 7 Speakers 2 Selector: Press this button to turn the speakers connected to the Speaker 2 output terminals H on or off. 4 FRONT PANEL CONTROLS Front Panel Controls 8 Phono / The Bridge Input Selector: Press this button to select the output of a turntable that is connected to the Phono inputs 5. HK 3490 only: This button also selects "The Bridge" iPod player from Harman Kardon (The Bridge is not included with the receiver), if connected to the special input L on the rear panel.

Press this button repeatedly to toggle betwut of the left/right channels by as much as ± 10 dB. Set this control to a suitable position for your taste and room acoustics. The button is recessed. To use the button, push it in, and it will pop out for easy operation when you let it go. Push it back in after use. Balance Control: Turn this control to change the relative volume for the front left/right channels. The button is recessed. To use the button, push it in, and it will pop out for easy operation when you let it go. Push it back in after use. Ò Volume Control: Turn the knob clockwise to increase volume, counterclockwise to decrease the volume.

Ú Video 3 Input Selector: Press this button to listen to and/or view the output of a device connected to the Video 3 Inputs D 1 on either the front or rear panel. If devices are connected to both the front- anack, it will be possible to monitor the recorded sound directly from the tape. A Video 1 Audio/Video Record/Out: Connect these jacks to the Rec/In jacks of an audio or video recorder. B Video 2 Audio/Video Inputs: Connect these jacks to the PLAY/OUT jacks of an audio or video device, such as a VCR or DVD player. In order to view the video signal of a video device connected to this input, remember to connect the Video Monitor Output K to the video input of your TV or video display.

C Main In: These jacks are the input to the HK 3490/HK 3390's power amplifier. Unless an external pre-amplifier is used, the jumper pins should remain connected to the Preamp Out jacks E. D Video 3 Audio/Video Inputs: Connect these jacks to the PLAY/OUT jacks of an audio or video device, such as a VCR or DVD player. In order to view the video signal of a video device connected to this input, remember to connect the Video Monitor Output K to the video input of your TV or video display. E Preamp Out: These jacks provide an output for the left and right channels to an optional external amplifier.

In normal operation, unless an external power amplifier is used, the jumper pins should remain connected to the Main In jacks C. F Subwoofer Out: Connect these jacks to the line-level input of a powered subwoofer. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input. When a single, mono subwoofer is used, make the connection to the bottom jack. G Speaker 1 Terminals: Connect these terminals to the appropriate terminals on your speakers. H Speaker 2 Terminals: Connect these terminals to the appropriate terminals on your speakers. I Switched AC Outlet: These outlets may be used to power low-current draw devices such as CD players or cassette decks.



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The power to these outlets remains on as long as the receiver itself is on. When the receiver is turned off, or placed in the Standby mode, power to these outlets is removed. NOTE: The power consumption of the devices plugged into each of these outlets should not exceed 100 watts.

J Power Cable: Connect the AC plug to a nonswitched AC wall output. **K Video Monitor Output:** Connect this jack to the composite video input of your TV or video display device. Doing so will enable you to view the video signal of a properly connected video source device, when that source input is selected. When an audio-only source is selected, the Video Monitor Output K will not transmit video signal. **L The Bridge Input (3490 only):** Digital Media Player (DMP) Connector: With the HK 3490 turned off, connect one end of the optional Harman Kardon cable to this proprietary connector. When the Digital Media Player source is selected, you may view your iPod's control and navigation messages on the Information Display. You may navigate the iPod and select tracks for playback using the **Left/Right** Buttons F, the OK Button and Transport Controls DET on your receiver's remote. See page 14 for more information. **M and N Update Cable Input and Reset Switch:** This specialized connector may be used with your personal computer in case Harman Kardon offers a software upgrade for the receiver at some time in the future. At the time of writing, this connector should only be used by Harman Kardon service centers. The Reset Button is only used during a software upgrade. **O Coaxial Digital Input (3490 only):** Connect the coax digital output from a DVD player, HDTV receiver, the output of a compatible computer sound card playing MP3 files or streams, LD player, MD player or CD player to this input. The signal must be a standard PCM digital source. Do not connect the RF digital output of an LD player to these jacks. **P Optical Digital Input (3490 only):** Connect the optical digital output from a DVD player, HDTV receiver, the output of a compatible computer sound card playing MP3 files or streams, LD player, MD player or CD player to this input.

The signal must be a standard PCM digital source. **Q Subwoofer Trigger Outputs:** Connect one of these 3.5mm jacks to the trigger input on your subwoofer (if so equipped) to switch the subwoofer on and off from the 3490/3390 receiver. As there are two trigger outputs, you can control two subwoofers separately, for example in two rooms. **R Subwoofer Link On/Off Switches:** These switches control whether or not a subwoofer connected to the Trigger Outputs Q switches on and off following your selection of loudspeaker set 1 or 2.

If you set the switch to ON, the subwoofer controlled by the Trigger Output belonging to the switch will be switched ON when you select the Loudspeaker set with the same number. If you select the Speaker set OFF, the subwoofer shuts off as well. Setting the switch to OFF interrupts the Link function, and the subwoofer will be ON as long as the 3490/3390 is on. **S Main On/Off Switch:** When switched ON, the unit is placed in Stand-by mode, indicated by the Power Indicator 2 lighting up in amber color. To listen to the amplifier, press the Power ON Button A on the Remote Control or the System Power Control 1 on the front panel of the amplifier. English REAR PANEL CONNECTIONS 7 Remote Control Functions A B C D E F G H I J K L M N O P Q R S T U V W X Y Z a b Main Power On Main Power Off Source Selectors (The Bridge only on HK 3490) Preset Up/Down Transport Controls Menu Navigation LKM N Sleep Button Dimmer Button Main Tuning Buttons Direct Button Numeric Keys Auto Preset Menu Button Clear Button Memory Button Master Volume P. Scan Button Mute Button FM Mode Button Search Forward / Search Reverse Button Speaker 1 Selector Speaker 2 Selector Transmitter Window OK Button RDS Display Button RDS PTY Button DSP Mode Button (Only on HK 3490) Disc Menu Button A B POWER SPEAKERS U Phono CD FM VID 1 AM DSP Mode VID 2 Tape Mon VID 3 The Bridge C S FM Mode Auto Preset \rightarrow AA ° DIRECT CLEAR MEMORY MENU \hat{N} O F Q PRESET SCAN DISC MENU OK F BB R I P PRESET DOWN PRESET UP D T E H Y DIMMER RDS DISP RDS PTY SLEEP D E T E E G Z 8 REMOTE CONTROL FUNCTIONS Remote Control Functions The remote is capable of operating the HK 3490/ HK 3390 and most Harman Kardon CD changers or players, CD Recorders and Tape decks, using the control codes that are part of the remote. \hat{a} Main Power On: When the HK 3490/ HK 3390 is in the Standby mode, as indicated by the Power Indicator 3 glowing amber, press this button to turn the HK 3490/ HK 3390 on. Main Power Off: When the HK 3490/ HK 3390 is turned on, press this button to place it in the Standby mode. Note that in this condition, the unit is still connected to AC Power.

ζ Source Selectors: Press these buttons to select an input source for the HK 3490/ HK 3390. NOTE: The first press of the Video 3 Source Selector ζ will select the device connected to the rear-panel Video 3 Audio/Video Inputs D. Press the Video 3 Source Selector ζ again until the display reads VIDEO F / ANALOG to select the device connected to the front-panel Video 3 Audio/Video Inputs 1. Each additional press of the Video 3 Source Selector ζ will toggle between the front and rear-panel Video 3 Audio/Video Inputs D1. Preset Up/Down: When the tuner is in use, these buttons scroll through the stations that have been programmed into the HK 3490/ HK 3390's memory. These buttons also control the track Skip Up and Down on compatible Harman Kardon compact disc players/changers, CD-Recorders and cassette decks (with that function). Transport Controls: These buttons are used to control Play, Play Forward, Play Reverse, Stop, Pause and Record functions on compatible Harman Kardon compact disc players/changers and cassette tape decks. Also, when a compatible Harman Kardon compact disc player or changer, or cassette deck, has been selected using the Source Selectors ζ , additional transport control functions are available using the Preset Up/Down buttons. Menu Navigation Buttons: Use these buttons to move Up, Down, Left or Right when using the Menu system of the HK 3490/ HK 3390. \copyright Sleep Button: Press this button to place the unit in the Sleep mode.

Each press of the button selects the amount of time that will remain before the unit will automatically go into the Standby mode, as shown in the Main Information Display \hat{U} , in the following order: 90 min 40 min 80 min 30 min 70 min 20 min 60 min 10 min 50 min OFF Dimmer Button: Press this button once to reduce the brightness of the front panel display to half the normal intensity and turn off the light inside the Volume Button. Press it again to turn the front panel display completely off. When the display is completely off, press the button to return to normal brightness. \hat{i} Main Tuning Buttons: When the tuner is in use, these buttons will tune up or down through the selected frequency band.



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A brief press of the button will manually tune to the next frequency increment, while pressing and holding the button for a longer period (>0.5 sec) will step quickly through the frequencies. As soon as the button is released the unit will automatically tune to the next station with a signal strong enough for acceptable reception. **Direct Button:** Press this button to select a radio station by entering its frequency using the Numeric Keys. (See page 13 for more information.) **K Numeric Keys:** These buttons serve as a ten-button numeric keypad to enter tuner preset positions or track numbers with CD players/changers or to tune stations directly.

– **Auto Preset:** When the tuner and FM band have been selected, this button may be used to automatically program the tuner presets for all stations with acceptable signal strength. To start the auto preset scan, press and hold the button. Keep holding the button pressed until the tuner will start to "look" for stations, as shown by increasing frequency numbers in the Information Display. Release the button and note that the tuner will search the entire FM band and stop briefly at each station that has acceptable signal strength. The HK 3490/HK 3390 will automatically assign a preset number to each station and then search for the next station. If the FM tuner finds fewer than 30 FM stations with acceptable signal strength, the Auto Preset tuning will scan two more cycles or until the remaining vacant preset memory spaces have been filled with those found in the first scan. The scan will stop when all 30 preset memory spaces have been filled or when three scans through the band have been completed (See page 13 for more information). **Menu Button:** When using a H/K DVD player with the receiver, you can activate the DVD Menu with this button. **Clear Button:** This button is used to clear preset memory information for the HK 3490/HK 3390's tuner. (See page 13 for more information on tuner presets.)

) **Memory Button:** Press this button to open a memory position that stores a preset location for the HK 3490/HK 3390's tuner. (See page 13 for more information on tuner presets.) **Master Volume:** Press these buttons to raise or lower the HK 3490/HK 3390's volume. **P. Scan Button:** Press this button to automatically scan through the list of stations that are programmed into the HK 3490/HK 3390's tuner memory. When the button is pressed, each preset station will play for five seconds before the next station is selected. Press the button again when the desired station is heard to stop the preset scan. **Mute Button:** Press this button to momentarily silence the HK 3490/HK 3390. **FM Mode Button:** Press this button when the tuner is in use in the FM band to switch to monaural reception if the stereo station is weak and noisy. (See page 12 for more information.)

) **Search Forward / Search Reverse Buttons:** When using a H/K CD-player or DVDplayer, use these buttons to fast search in either direction. **Speaker 1 Selector:** Press this button to turn the speakers connected to the Speaker 1 Output terminals G on or off. **Speaker 2 Selector:** Press this button to turn the speakers connected to the Speaker 2 Output terminals H on or off. **Transmitter Window:** Point this area of the remote toward the receiver when using the remote. **OK Button:** This button has no function on the HK 3490/HK 3390, but may be used as the Enter key for a compatible Harman Kardon DVD Player or as the Random Play button for a compatible CD Player.

(See page 16 for more information on using the remote to control other devices.) **RDS Display Button:** Press this button to view the various displays of the RDS options that are available when a station is transmitting RDS data. (See page 14 for more information on RDS tuning.) **RDS PTY Button:** Press this button to start a search for a specific PTY type using the RDS capabilities of the HK 3490/HK 3390. (See page 14 for more information on RDS tuning.)

) **DSP Mode Button.** (HK 3490 only): This Button switches between the Digital Sound Processor Modes. Press to activate the Dolby Virtual Surround function. Press repeatedly to toggle between STEREO, Dolby Virtual Surround WIDE and Dolby Virtual Surround-REF. See page 12 for explanation of DVS. **Disc Menu Button:** Displays the actual DVD Disc Menu on the TV screen in Play Mode. Holding the button pressed for some seconds will directly turn off the Sleep time selection. **REMOTE CONTROL FUNCTIONS 9 English Installation and Connections Audio and Speaker 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. 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 6. **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 Record/In jacks on the recorder to the Tape Monitor Rec. Out jacks 9 on the HK 3490/HK 3390.**

@@@5. @@@@10 **INSTALLATION AND CONNECTIONS 6.** Assemble the AM Loop Antenna supplied with the unit as shown below. Connect it to the AM spring loaded terminals 1. Cable with 1.

5 mm2 may be used for short runs of less than 3 meters. @@@@7. Connect an FM antenna to the FM Antenna connection 0. @@@@8. @@@@9. @@@@You can choose freely, and you may use both inputs simultaneously. @@@@10. (HK 3490 only). @@@@2 mm2.

@@@@@@@@@@@@@@@@@@@@Connect the speakers using the following steps: 1. Connect the main speakers to the Speaker 1 terminals G. 2. @@@3. @@@If the subwoofer has no single line input, and if you cannot obtain sufficient woofer level using only one of the two inputs, use an optional Ysplitter to separate the sub mono signal from the receiver into two channels for the two inputs on the subwoofer. When a separate passive subwoofer is used, these connections will be made to the optional amplifier that powers the subwoofer.

If a Sub/Sat system is used (active or passive), connect the Speaker 1 terminals G to the Installation and Connections speaker-level inputs on the subwoofer, and then connect the speaker-level outputs on the subwoofer to your main left and right speakers, following the instructions provided with the subwoofer. If your subwoofer can be switched on and off with a trigger signal from the receiver, connect either of the two Trigger Out mini-jacks Q to the subwoofer's Trigger Input with a suitable cable, which usually comes with the subwoofer, or may be purchased separately.



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This means that the subwoofer (which is otherwise usually switched on and off automatically by an internal signal sensor) stays on as long as you listen to music or movie sound. Even if no deep bass is present in the signal for a while, the subwoofer does not go into standby mode when it is controlled by the trigger signal. Otherwise, when controlled by a bass signal sensor, you may not experience the first bass impulse when bass returns, after the subwoofer has gone into standby mode, because it has to switch on first. This means that you may have a Speaker system 1 and a Speaker system 2 in two different rooms, each with its own active subwoofer that switches on when you select Speakers 1 or Speakers 2. You may also have two active subwoofers in one room, one that is always working with your main Speaker 1 set of speakers, the other to be switched on or off according to your taste if connected to the Sub Out linked to Speaker 2, without any speakers being connected to the Speaker 2 terminals. This makes it easy to add a second subwoofer only when watching movies, where extra bass level may be desirable. Set the uppermost LINK S/W ON/OFF switch that controls the Trigger Out voltage for Speaker Set 1 to ON if you want this subwoofer to switch on ONLY when you select Speaker Set 1. Set the switch OFF if you want the subwoofer to always receive the Trigger Out ON voltage and therefore be switched ON always, even if you select Speaker Set 1 to be OFF.

Repeat for the lowermost switch if you have two subwoofers or wish to switch your single subwoofer ON and OFF separately with the Speaker set 2 switch. If your subwoofer is not equipped with a Trigger Voltage input, the position of these two switches is irrelevant. Remote Control Extension If the receiver is placed behind a solid or smoked glass cabinet door, the obstruction may prevent the remote sensor from receiving commands. In this event, an optional remote sensor may be used. Connect the output of the remote sensor to the Remote IR In jack 3.

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 IR Out jack 4 to the Remote In jack on Harman Kardon or other compatible equipment. External Audio Power Amplifier Connections If desired, an optional, external amplifier may be used in place of the HK 3490/HK 3390's internal power amplifier. To connect an external power amplifier, first remove the Pre-Out/Main-In Jumper Pins D that connect the Preamp Out E and Main In C jacks on the rear panel. Keep the jumpers in a safe place should they be needed at a later time.

Using high-quality audio interconnect cables, connect the Preamp Out jacks E to the input jacks on your power amplifier. Make certain to match the right output to the right input and the left output to the left input. @@@@The total power draw may not exceed 100W for each outlet. @@@@Ideally, pans from left to right across the front of the room should sound smooth, and instruments should appear to be coming from the proper location within an orchestra. The placement of subwoofers should be done as suggested in the manufacturer's instructions. In general, subwoofers often produce best results when they are placed in the corner of a room, along the same wall as the speakers, but optimal placement will vary widely depending on room size, the subwoofer type and the placement of rugs and furniture in a room. It may be helpful to temporarily position the subwoofer in the usual listening position, then walk around the room while program material is playing until the bass reproduction sounds best to your ears. That location is likely to be the optimum position for the subwoofer. Finally, when all connections are complete, plug the power cord into a nonswitched 230-volt AC wall outlet. You're ready to enjoy the HK 3490/ HK 3390! System and Power Connections Your Harman Kardon receiver 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. INSTALLATION AND CONNECTIONS 11 English Operation Basic Operation The HK 3490/HK 3390 is simple to operate, and very similar to stereo receivers you may have used in the past. This section will explain the use of several features that may be new to you. · Install the four supplied AAA batteries in the remote as shown. Be certain to observe the (+) and (-) polarity indicators shown in the bottom of the battery compartment. Source Selection · To select a source at any time, press any of the Source Selector buttons on the remote or front panel 89!#\$&Ú. Selection of Digital Sources The Digital Inputs O P have no separate Input Selector Buttons. Instead, you can link each of the other inputs (Phono, CD, Vid 1-2-3) to one of the Digital Inputs, or let it have its basic analog function. To Select a Digital Input, press and hold the normal Input Selector Button 8#!\$Ú on the front panel of the receiver that you wish to associate with the Digital Input. While holding this button in, repeatedly press the T-MON 9 Button.

As you can now see in the Display, the input function cycles between Optical, Coaxial and Analog. Release both buttons when you have the result you want. Example: you want to have your CD player's Digital signal converted to Analog in the receiver, and you are using a Coaxial cable from the CD player's digital output to the receiver's Digital Input Ú. Press and hold the CD Button # on the front panel, push the TMON 9 until the word COAXIAL appears in the receiver's Display, and release both buttons. Now, every time you select CD on the receiver, the signal will be taken from the Coaxial Digital Input. This is also possible for the Phono Input, in case you do not use a Record Player/Turntable, but of course you cannot process an analog record player signal through the digital inputs. However, as soon as you select the Phono Input to process a digital signal, the special amplification and frequency compensation that is a normal part of analog record playback is no longer in effect. To return to analog signal, simply repeat the select procedure, but release both buttons when the Display shows ANALOG. · When a video source is selected, if you have connected a video device to the video input jack for that source, and if you have connected the Video Monitor Output K to the composite video input of your TV or video display, you will be able to enjoy video programs from a broadcast, cable or satellite television system; a VCR or harddisk video recorder; a DVD player; or any other video device with analog line-level audio outputs and a composite video output. NOTE: Although the HK 3490/HK 3390 is an audio/video receiver, it is not a surround sound receiver. Audio will be played in two-channel stereo, Virtual Dolby Surround (only HK 3490) or monaural, depending on how the program material is encoded, and you will not be able to hear any additional channels that may be encoded in your source materials.



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You will not be able to make any digital audio connections through the HK 3490/ HK 3390. **Dolby Virtual Speaker:** This technology uses a next-generation advanced algorithm to reproduce the dynamics and surround sound effects of a precisely placed 5.1-channel speaker system using only front left and right speakers. In the Reference Mode, the apparent width of the sound across the front image is defined by the distance between the two speakers. The Wide Mode provides a wider, more spacious front image when the two speakers are close together. · During a listening session you may wish to adjust the Bass \hat{O} , Treble \hat{O} and Balance controls to suit your listening tastes. If you have used the trim covers to hide the buttons, push the end of the cover until the hidden button jumps out and presses the cover out completely or so far that you can grab hold of it for easy removal. The three buttons are spring loaded and pop in and out with each firm push, to allow for easy operation and flush appearance. · Adjust the volume to a comfortable level using the front panel Volume Control \hat{O} or remote Master Volume Up/Down buttons.

The volume level is displayed as a negative number of decibels (dB) in the Main Information Display \hat{U} . The volume level is relative to a maximum volume level that has been assigned the value of 0dB. It is important that you make sure never to exceed this maximum volume level (0dB) at any time, in order to avoid possible damage to your loudspeakers due to "clipping", a type of distortion that is not audible to the human ear until it is severe enough to permanently damage most loudspeakers. It is also possible, depending upon the program material, for clipping to occur at volumes below the maximum volume level. · To temporarily silence all speaker outputs, press the Mute button Ⓜ . This will cut the output to all Pre and Sub Outs and to all speakers, but it will not affect any recording or dubbing that may be in progress. When the system is muted, the MUTE indicator will light in the Main Information Display. Press the Mute button Ⓜ again to return to normal operation. · For private listening, plug the 6,3 mm stereo phone plug from a pair of stereo headphones into the front panel Headphone jack 4. · One or two separate sets of speakers may be connected to the HK 3490/HK 3390.

To listen to one of the speaker sets, press the Speaker button 6 or 7 on the front panel corresponding to the desired speakers or press them both to listen to both speakers pairs. The active speakers will be indicated by the Information Display showing SPK 1 or SPK 2. If both pairs are in use, SPK 1+2 is shown. Both sets of speakers may be turned off for private headphone listening. · When using the HK 3490/HK 3390 for the first time, the unit will be 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 Main Power On button \hat{a} on the remote. Note that the Power Indicator 3 will turn white. 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 front panel $\text{89!#\$\&\hat{U}}$ or remote ζ . 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 Main Power Off button on the remote.

This places the unit in the Standby mode, and the Power Indicator 3 will turn amber to remind you that the unit is ready for operation when a power command is received from the remote. Power to any equipment plugged into the rear panel Switched AC Outlet I will be shut off. When the remote is used to turn the unit "off" it is actually placing the system in a standby mode, as indicated by the amber color of the Power Indicator 3. · To dim the brightness of the front panel display, press the Dimmer button on the remote or on the front panel $\hat{\wedge}$ (HK 3390 only). The first press will dim the lights to half normal and turn the light inside the volume button off. A second press will turn the display completely off. Press the Dimmer button $\hat{\wedge}$ again to restore the display to normal brightness. If you press any button on the remote control or front panel, the display and volume button light up for a few seconds, then dim again. 12
OPERATION Operation IMPORTANT NOTE: When two speaker pairs are connected to the HK 3490/HK 3390 and are to be used simultaneously, the impedance of each speaker must not be lower than 8 Ohms.

· To program the HK 3490/HK 3390 for automatic turn-off, press the Sleep button on the front panel (or remote Ⓢ). Each press of the button will increase the time before shutdown in the following sequence: 90 min 40 min 80 min 30 min 70 min 20 min 60 min 10 min 50 min OFF NOTE: When the FM reception of a stereo station is weak, audio quality will be increased by switching to Mono mode by pressing the FM Mode button $\text{*}\beta$ until MONO appears in the display.

Preset Tuning Up to 30 stations may be stored in the HK 3490/ HK 3390's memory for easy recall using the front panel controls or the remote. In order to program preset stations into memory, you must use the remote control. To enter a station into the memory, first tune the station using the steps outlined above.

Then: 1. Press the Memory button \emptyset on the remote. Note that the MEMO and PRESET indicators will light and flash in the Main Information Display. 2.

Within five seconds, press the Numeric Keys K corresponding to the location where you wish to store this station's frequency.

For all preset numbers above "3" the station will be stored directly. Note that for the presets 1, 2 or 3 either you press the corresponding number and wait for 5 seconds or you press a "0" before you press the 1,2 or 3, then the station will be stored at once. 3. Repeat the process after tuning any additional stations to be preset. Auto Preset · Preset stations may also be programmed automatically for the entire FM band.

To automatically enter each station that may be tuned with acceptable quality into the HK 3490/HK 3390's preset memories, first select the FM band. Next, press and hold the Auto Preset button \rarr until the station frequency indication begins to increase. Release the button and note that the tuner will search the entire FM band, and stop briefly at each station that has acceptable signal strength. The HK 3490/HK 3390 will automatically assign a preset number to each station, and then search for the next station. If the FM tuner finds fewer than 30 FM stations with acceptable signal strength, the Auto Preset tuning will scan up to two more cycles until the remaining vacant preset memory spaces have been filled.

The automatic scan process will stop when all 30 preset memory locations have been filled or the entire FM band has been scanned three times or the Auto Preset button \rarr is pressed again.



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NOTE: Using the automatic tuning mode in areas with more than 30 FM stations will completely fill the preset memories, and overwrite any previously memorized presets for either AM or FM stations. TIP: The automatic scan process may enter stations that you do not wish to retain in the memory, or it may enter the same station on the same frequency (if more than one scan is made) or on more than one frequency. These unwanted stations may be removed from the memory using the Preset Clear function outlined below. Recalling Preset Stations · To manually select a station previously entered in the preset memory, press the Numeric Keys K that correspond to the desired station's preset location. · To manually tune through the list of stored preset stations one by one, press the Preset buttons % on the front panel or remote. · To automatically scan through the stations entered in the preset memory, press the Preset Scan button @ on the front panel or remote. The tuner will cycle through the list of preset stations, stopping for five seconds at each one. Press the button again to stop the scan at your desired station. Clearing Preset Stations Unwanted preset stations may be erased from the unit's memory to make it easier to tune only those stations you want.

To remove a preset station from the HK 3490/HK 3390's tuner memory, first tune to the station using the Preset buttons % on the front panel or remote, or by entering the preset number directly, using the Numeric Keys K. When the preset station to be removed has been tuned, first press the Memory button ø. The words MEMORY PRESET will appear in the display, and the preset position number will flash. Next, press the Clear button Ñ within five seconds. The preset station will be removed from the memory, and the action will be confirmed by the brief appearance of the word CLEAR and the preset number location in the Main Information Display. That memory location will now be empty, and you may program a different station to that location, or leave it empty. The sleep time will be displayed in the Main Information Display Û and it will count down until the time has elapsed. When the programmed time has elapsed, the unit will automatically turn off (to Standby mode). 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 © or simply hold it pressed for some seconds until the Sleep indicator numbers disappear and the Main Information Display shows the current source.

Pressing any control button while the Sleep control is activated will momentarily return the Main Information Display to full brightness for increased legibility without interrupting the Sleep function. Tuner Operation The HK 3490/HK 3390's tuner is capable of tuning AM, FM and FM Stereo broadcast stations. Stations may be tuned manually or automatically, or they may be stored as favorite station presets and recalled from a 30-position memory. Station Selection 1. Press the AM/FM & buttons on the front panel or on the remote ç to select the tuner as an input.

2. Press these buttons again at any time to switch between AM and FM. 3. To automatically search for the next higher- or lower-frequency station that has an acceptable signal hold the Tuning K or L button) on the front or î on the remote pressed and release it as soon as the tuner starts the frequency search. To tune to the next station, press the button again.

Tap the Tuning button to advance one frequency increment at a time, or press and hold it to locate a specific station. When the TUNED indicator lights, the station is properly tuned and should be heard with clarity. 4. Stations may also be tuned directly by pressing the Direct button , and then pressing the Numeric Keys K that correspond to the station's frequency. The desired station will automatically be tuned. OPERATION 13 English Operation RDS Operation RDS (Radio Data System) transmits station call signs or network information, station program type, text messages about the station or specifics of a musical selection and the correct time. RDS Display Options When an RDS station is tuned, press RDS Display button ¥ on the remote or FM & on the front panel to cycle through the RDS displays in the following order: · The Station name (or other Program information with some private stations). · The station's frequency. · The Program Type (PTY) as shown in the following list in this manual. · A "text" message (RT) containing special information from the broadcast station.

Note that this message will scroll across the display to permit messages longer than the eight positions in the display. Depending on signal quality it may take up to 30 seconds for the text message to appear, in the meantime the word TEXT will flash in the display when RT is selected. · The current time of day (CT) as transmitted by the station. It may take up to two minutes for the time to appear, in the meantime the word TIME will flash in the display when CT is selected. Note that the accuracy of the time message is set by the radio station, not the HK 3490/HK 3390. · Some RDS stations may not choose to include some of these additional features. If the data required for the selected mode is not being transmitted, the Information Display will show a NO PTY, NO TEXT or NO TIME message after the individual time out. · In any FM mode the RDS function requires a strong enough signal for proper operation. If you receive a partial message or see any RDS indicator going on and off, try slowly adjusting the antenna to improve the signal strength or tune to another, stronger, RDS station. Program Search (PTY) A major benefit of RDS is its ability to encode broadcasts with Program Type (PTY) codes that indicate the type of material being broadcast.

The following list shows the abbreviations used to indicate each PTY along with an explanation of the PTY: · RDS ONLY: (see item 3 below) · POP M: Popular Music · ROCK M: Rock Music · M.O.R M: Middle-of-the-Road Music · LIGHT M: Classical Music · CLASSICS: Serious Classical Music · OTHER M: Other Music · NEWS: News · INFO: Information · SPORT: Sports · AFFAIRS: Current Affairs · EDUCATE: Educational · DRAMA: Drama · CULTURE: Culture · SCIENCE: Science · VARIED: Varied Speech Programs · WEATHER: Weather Information · FINANCE: Financial Programs · CHILDREN: Children's Programs · SOCIAL: Social Affairs Programs · RELIGION: Religious Broadcasts · PHONE IN: Phone-In Programs · TRAVEL: Travel and Touring · LEISURE: Leisure and Hobby · JAZZ: Jazz Music · COUNTRY: Country Music · NATION M: National Music · OLDIES: Oldies Music · FOLK M: Folk Music · DOCUMENT: Documentary Programs · TEST: Station Alarm Test Message · ALARM: Emergency Broadcast Information You may search for a specific Program Type (PTY) by following these steps: 1.



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Press the RDS PTY button and note that the Information Display will show PTY FLASHING. 2.

After three seconds, the display will show the PTY that was selected for the last PTY search. If you wish to use the same PTY, press the RDS PTY button again within six seconds, and the tuner will begin to search for the first station with the appropriate PTY and acceptable signal strength. 3. To search for a different PTY, press the Preset Up/Down buttons D% while the last PTY selected is still displayed to scroll through the list of available PTY types. To search for the next available station with any RDS data, select RDS ONLY as the PTY type.

4. When the PTY is selected, press the Tune Up/Down Button (î) within six seconds. The HK 3490/HK 3390 will go into an automatic search mode and attempt to find the next station with acceptable signal strength that matches the desired PTY type. Press the RDS PTY button twice again to find another matching station. When a station is tuned, the search will stop, a message RDS will blink in the Information Display and then the Display will show the station's "Call Letters" or other "Program Service" information. 5. While the PTY Indicator flashes in the display the tuner will make one complete scan of the entire FM band for the text station that matches the desired PTY type and has acceptable reception quality. If no such station is found, the word NONE will appear briefly in the Information Display, and the tuner will return to the last FM station in use before the search. To turn off the PTY Search at any time, press the RDS PTY button again. NOTE: Many stations do not transmit a specific PTY.

The display will show NONE, when such a station is selected and PTY is active. 14 OPERATION Operation Tape Recording In normal operation, the audio source selected for listening through the HK 3490/HK 3390 is sent to the Tape Mon Rec Out 9 and Video 1 Record Outputs A outputs. This means that any program you are listening to may be recorded simply by placing machines connected to the outputs for Tape Monitor 9 or Video 1 A in the record mode.

Moreover the source connected to Video 1 Input 7 may be recorded to a recorder connected to Tape Mon 89, rather than turned around. When a tape recorder with separate record and playback heads is used, you may monitor the output of the recording by selecting the Tape Monitor Input Selector 9 ç. Note that the TAPE M. Indicator will light in the Main Information Display Ũ to remind you that you are listening to the record playback instead of the actual input source being recorded. As long as Tape Monitor 9 ç is selected the previously selected input source remains routed to the Record Outputs 9 B. Press the Tape Monitor Input Selector 9 ç again to turn the monitoring off and listen to the actual input source. Note that changing the Bass, Treble or Balance control will not affect the recordings, only the preamp and speaker outputs.

Processor Reset In the rare case where the unit's operation or the displays seem abnormal, the cause may involve the erratic operation of the system's memory or microprocessor. To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To reset the system, first turn the HK 3490/HK 3390 off either by pressing the Main Power Switch on the rear panel S to OFF, or disconnecting the unit from the main power source.

Next, press and hold the MUTE 5 and the Preset Scan @ buttons at the same time on the front panel ONLY. When the receiver switches On and the Main Information Display shows the word RESET, release both buttons. The receiver returns to Standby Mode. Note that when the system is reset in this fashion, all tuner presets will be lost and must be reentered.

If the system is still operating incorrectly, there may have been an electronic discharge or severe AC line interference that has corrupted the memory or microprocessor. If these steps do not solve the problem, consult your dealer or an authorized Harman Kardon service center. When The Bridge is properly connected and a compatible iPod is properly docked, the Display will read DMP/CONNECTED. Once that message appears, use the remote to control the iPod. @@@@ While a selection is playing, the song title, artist and album name, if available on the iPod, will scroll across the upper line in the Display Ũ. The lower line will display the elapsed time of the track on the left, the play mode icon, and the time remaining on the right. When your iPod is docked in The Bridge and playing, you can choose to either use the display on the iPod or switch to the receiver's display for information. To switch to the receiver display, press and hold the Menu M Button until the iPod shows a large checkmark and the text "harman kardon" in its display. Now the receiver display shows song title etc. as described above.

@@@@@ If you have entered the MENU function on the receiver display, but wish to exit without changes, just wait a few seconds, and the MENU option disappears again. You may also change back from the receiver display to the iPod display again by repeating the same procedure: press and hold the

Menu Button until the iPod display becomes active again. Memory Backup This product is equipped with a memory backup system that preserves tuner presets if the unit is accidentally unplugged, turned off completely by disconnecting from the main power source or subjected to a power outage. The unit's memory is stored in an EEPROM, and thus the HK 3490/HK 3390 will retain information such as programmed presets for a virtually infinite time without being connected to a main power source. Using (HK 3490 only) When Harman Kardon's (optional) is connected and a compatible Apple® iPod® is docked in The Bridge, press the DMP Selector Button C7 until "The Bridge" appears in the Display to choose the iPod as the input source, allowing playback of audio materials on your iPod through your high-quality audio system. Pressing the DMP Selector Button C will also activate the remote's control codes for the iPod. OPERATION 15 English Operation Using the Remote Control It is convenient to think of the functions of the remote control buttons in terms of "pages", where each source device (e.g. CD player) represents its own page of remote functions. The result is that some of the keys will perform different functions depending upon which device page has been selected prior to pressing the key.

Device pages are selected by pressing the Source Selectors ç, which also changes the input source selection on the HK 3490/HK 3390. Source Selectors ç need not to be pressed with each function, but only when you intend to skip to another device to be controlled.



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The Video 1, Vide 2, Video 3, Tape Monitor/CDR and CD device pages are factory-programmed to operate compatible Harman Kardon products. Video 1 controls Harman Kardon DMC players, Video 2 and 3 controls Harman Kardon DVD players, Tape Monitor controls Harman Kardon CDR players/recorders, CD controls Harman Kardon CD players. Please refer to the table below for specific information on the default functions of the affected keys for these devices.

REMOTE BUTTON FUNCTIONS Button Name Power ON Power OFF Speakers 1 Speakers 2 Phono CD VID 1 VID 2 VID 3 FM AM Tape Mon. The Bridge (3490 only) FM Mode DSP Mode (3490 only) Auto Preset 1 2 3 4 5 6 7 8 9 Direct 0 Clear Memory Cursor Up Menu Cursor Left Enter Cursor Right Preset Scan Cursor Down Disc Menu Volum Up Mute Tuning Up >> Volume Down Tuning Down << Preset Down I<< Pause II Preset Up >>I Search Backward << Play Search Forward >> Rec Stop Dimmer RDS Display RDS PTY Sleep Phone System Power On System Power Off Speaker 1 Speaker 2 Phono CD CD Power On VID 1 DMC Power On VID 2 DVD Power On VID 3/VID Front FM AM Tape Mon/CDR CDR Power On The Bridge Surround Mode Harman Kardon DMC VID 1 System Power On DMC Power On System Power Off DMC Power Off Speaker 1 Speaker 2 Phono CD CD Power On VID 1 DMC Power On VID 2 DVD Power On VID 3/VID Front FM AM Tape Mon/CDR CDR Power On The Bridge DMC Status Surround Mode DMC Subtitle 1 2 3 4 5 6 7 8 9 DMC Info 0 DMC Clear DMC Return DMC Up (Navigation) DMC Setup DMC Left (Navigation) DMC Enter DMC Right (Navigation) DMC Title DMC Down (Navigation) DMC disc Menu Volume Up Audio Mute DMC Zoom Volume Down DMC Audio DMC Prev/Step DMC Pause DMC Next/Step DMC Search/Slow <DMC Play DMC Search/Slow -> DMC Record DMC Stop DMC Dimmer DMC Video Mode DMC Source Sleep Timer Harman Kardon DVD VID 2 System Power On DVD Power On System Power Off DVD Power Off Speaker 1 Speaker 2 Phono CD CD Power On VID 1 DMC Power On VID 2 DVD Power On VID 3/VID Front FM AM Tape Mon/CDR CDR Power On The Bridge DVD Status Surround Mode DVD Subtitle 1 2 3 4 5 6 7 8 9 DVD Info 0 DVD Clear DVD Play Mode DVD Up (Navigation) DVD Setup DVD Left (Navigation) DVD Enter DVD Right (Navigation) DVD Title DVD Down (Navigation) DVD disc Menu Volume Up Audio Mute DVD Zoom Volume Down DVD Audio DVD Prev/Step DVD Pause DVD Next/Step DVD Search/Slow <DVD Play DVD Search/Slow -> DVD Video Off DVD Stop DVD Dimmer DVD Video Resolution Sleep Timer VID 3/VID Front System Power On System Power Off Speaker 1 Speaker 2 Phono CD CD Power On VID 1 DMC Power On VID 2 DVD Power On VID 3/VID Front FM AM Tape Mon/CDR CDR Power On The Bridge Surround Mode DVD Subtitle 1 2 3 4 5 6 7 8 9 DVD Chapter 0 DVD Clear DVD Return DVD OSD Up DVD Menu DVD OSD Left DVD Enter DVD OSD Right DVD Intro Scan DVD OSD Down DVD disc Menu Volume Up Audio Mute DVD Page + Volume Down DVD Page DVD Skip Back DVD Pause DVD Skip Forward DVD Search <DVD Play DVD Search -> DVD Stop Dimmer Harman Kardon CDR TAPE MON System Power On CDR Power On System Power Off CDR Power Off Speaker 1 Speaker 2 Phono CD CD Power On VID 1 DMC Power On VID 2 DVD Power On VID 3/VID Front FM AM Tape Mon/CDR CDR Power On The Bridge CDR Time Surround Mode CDR Finalize 1 2 3 4 5 6 7 8 9 CDR Track Direct 0 CDR Clear CDR Program CDP Select CDR Volume Down CDR Random Play CDR Volume Up CDR Intro Scan CDR Select Volume Up Audio Mute CDR Disc Skip + Volume Down CDR Disc Skip CDR Skip <CDR Pause CDR Skip -> CDR Search <CDR Play CDR Search -> CDR Record CDR Stop Dimmer Harman Kardon CD CD System Power On CD Power On System Power Off CD Power Off Speaker 1 Speaker 2 Phono CD CD Power On VID 1 DMC Power On VID 2 DVD Power On VID 3/VID Front FM AM Tape Mon/CDR CDR Power On The Bridge Surround Mode CD Program Check CD 1 CD 2 CD 3 CD 4 CD 5 CD 6 CD 7 CD 8 CD 9 CD Source CD 0 CD Clear CD Repeat CD Folder + CD Time CD 10 CD Play/Pause CD 10 + CD Random CD Folder CD Info Volume Up Audio Mute ===== Volume Down ===== CD Previous CD Play/Pause CD Next CD Search CD Play/Pause CD Search + CD Stop CD Display CD Program CD Check Sleep Timer AM System Power On System Power Off Speaker 1 Speaker 2 Phono CD CD Power On VID 1 DMC Power On VID 2 DVD Power On VID 3/VID Front FM AM Tape Mon/CDR CDR Power On The Bridge FM System Power On System Power Off Speaker 1 Speaker 2 Phono CD CD Power On VID 1 DMC Power On VID 2 DVD Power On VID 3/VID Front FM AM Tape Mon/CDR CDR Power On The Bridge FM Mode Surround Mode Auto Preset 1 2 3 4 5 6 7 8 9 Frequency Direct 0 Clear Momory/Store Preset Tuning -> HK 3490 only The Bridge System Power On System Power Off Speaker 1 Speaker 2 Phono CD CD Power On VID 1 DMC Power On VID 2 DVD Power On VID 3/VID Front FM AM Tape Mon/CDR CDR Power On The Bridge FM Mode Surround Mode Cursor Up Menu Cursor Left Enter Cursor Right Cursor Down Volume Up Audio Mute Volume Down Skip <Pause Skip -> Play Auto Preset 1 2 3 4 5 6 7 8 9 Frequency Direct 0 Clear Momory/Store Preset Tuning -> Cursor Up Menu Cursor Left Enter Cursor Right Cursor Down Volume Up Audio Mute Volume Down Skip <Pause Skip -> Play Preset Scan Preset Tuning <Volume Up Audio Mute Tuning Up Volume Down Tuning Down Preset Tuning <Preset Tuning -> Preset Scan Preset Tuning <Volume Up Audio Mute Tuning Up Volume Down Tuning Down Preset Tuning <Preset Tuning -> Dimmer Dimmer Sleep Timer Sleep Timer Sleep Timer Sleep Timer Dimmer RDS Display RDS PTY Sleep Timer Dimmer Sleep Timer 16 OPERATION

Troubleshooting Guide This unit is designed for trouble-free operation. Most problems users encounter are due to operating errors. If you have a problem, first check this list for a possible solution. If the problem persists, consult your authorized Harman Kardon Service Center.
If the problem is... No lights appear when System Power 2 button is pressed No sound is heard Make sure that the... Unit is plugged into a live outlet. Unit has not been muted. Correct input function selector button has been pressed. Volume is turned up.

Speakers have been turned on using the Speaker Selectors 67ii. Cables are not defective: check/replace speaker cables. Antenna is properly connected. Antenna is properly located. Antenna is set in the proper direction. Antenna is adequate to receive the desired station. Unit is away from fluorescent lights, TVs, motors and other electrical appliances. Batteries are not weak, and replace them if necessary. Correct device page has been selected by pressing the Source Selector key ç. Remote sensor is not obstructed, and remote is pointing directly at sensor at an angle of no more than 30 degrees. Also, check for fluorescent lighting, which may be interfering with the IR transmission. Cassette deck or CD player has not been plugged into the Phono input. (Only use the outputs of a turntable or tonearm with the Phono input.) Turntable has been plugged into the Phono Input 5, as the other inputs are not compatible with turntable signal levels Video source unit's video output is properly connected, the source is turned on and the correct video input on the HK 3490/HK 3390 has been selected Video Monitor Output K is connected to a TV or video display, and that the TV is turned on and the proper input on the TV has been selected English No output from one or more channels Tuner sound has a large amount of interference, or the "Stereo" display is not illuminated, or Tuner sound distorts and/or is noisy Tuner is intermittent or continuously buzzing or hissing Remote does not function correctly Cassette or CD sounds distorted Turntable sounds distorted No video image TROUBLESHOOTING 17 Technical Specifications Audio Section Stereo Mode Continuous Average Power (FTC) HK 3490: 120 Watts per channel, 20Hz 20kHz @ < 0.



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