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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON BDS 2. You'll find the answers to all your questions on the HARMAN KARDON BDS 2 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 BDS 2
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Manual abstract:

If you have any questions about this product, its installation or its operation, please contact your retailer or custom installer, or visit the Harman Kardon Web site at www.harmankardon.com. Due to the heat generated by the receiver and other components in your system, there is the remote possibility that the rubber padding on the bottom of the unit's feet may leave marks on certain wood or wood-veneer materials. Use caution when placing the unit on soft woods or other materials that heat or heavy objects may damage. Some surface finishes may be particularly sensitive to absorbing such marks, due to a variety of factors beyond harman kardon control, including the nature of the finish, cleaning materials used, normal heat and vibration caused by the use of the product, or other factors. @@@@Wipe it dry immediately with a dry cloth. @@Do not use abrasive cleaners, as they may damage the finish of metal parts. Avoid spraying insecticide near the unit. Speakers and Subwoofer When needed, use a soft cloth to remove any fingerprints or dust from the enclosures or grilles.

NOTE: Do not use any cleaning products or polishes on the enclosures or grilles. Verify Line Voltage Before Using Your BDS receiver has been designed for use with 110 240-volt, 50Hz/60Hz AC current. Your subwoofer has been designed for use with either 120-volt, 60Hz or 220 240-volt, 50/60Hz AC current, depending on where your system was sold. The receiver includes a detachable IEC power cable designed for use in the region where the system is sold.

Connection to a line voltage other than that for which the units are intended can create a safety and fire hazard and may damage the units.

If you have any questions about the voltage requirements for your specific model or about the line voltage in your area, contact your dealer before plugging the unit into a wall outlet. Moving the Receiver Before moving the receiver, disconnect any interconnection cords to other components, and disconnect the unit from its AC outlet. NOTE: The built-in Blu-ray Disc/DVD player in your BDS receiver is designed and manufactured for compatibility with region management information that is encoded on most Blu-ray Disc recordings and DVD recordings: BDS receivers sold in the USA are designed only for playback of discs with BluRay Disc Region Code A and DVD Region Code 1 information, or for discs that do not contain any region code information.

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 if the unit ever needs repair.

To minimize the size of the carton in storage, you may wish to flatten it. You can do it by carefully slitting the tape seams on the carton's bottom and collapsing it. You can store cardboard inserts in the same manner. Packing materials that cannot be collapsed should be saved along with the carton in a plastic bag. If you do not wish to save the packaging materials, please note that the carton and other sections of the shipping-protection materials are recyclable. Please respect the environment and discard those materials at a local recycling center. Remove the protective plastic film from the front-panel lens. Leaving the film in place will affect the performance of your remote control. BDS receivers sold in Europe are designed only for playback of discs with Blu-ray Disc Region Code B and DVD Region Code 2 information, or for discs that do not contain region code information. If there is a Region Code on a disc other than the one your BDS player is designed for, it will not play in your BDS receiver.

Installation Location To ensure proper operation and to avoid the potential for safety hazards, place the unit on a firm and level surface. When placing the unit on a shelf, be certain that the shelf and any mounting hardware can support the weight of the product. Provide proper space 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 area. Under some circumstances, a fan may be required. Do not place the unit directly on a carpeted surface. Avoid installation in extremely hot or cold locations, or in an area that is exposed to direct sunlight or heating equipment. Avoid moist or humid locations. Do not obstruct the ventilation slots on the top and sides of the unit or place objects directly over or next to them. Do not place the receiver directly on top of a product that generates excessive heat.

3 ENGLISH BDS System Components Your BDS system includes the following components: System Components and Supplied Accessories BDS 700, BDS 300 Systems System remote control HDMITM cable Satellite speaker wall-mount brackets and hardware (four with BDS 700 system, two with BDS 300 system)

FM wire antenna BDS 800 System 1 x BDS 5 5.1-channel Blu-ray Disc receiver 4 x SAT-TS60 satellite speakers 1 x SAT-TS60 center speaker 1 x HKTS200SUB powered subwoofer BDS 700 System 1 x BDS 5 5.1-channel Blu-ray Disc receiver 4 x SAT-TS7 satellite speakers 1 x CEN-TS7 center speaker 1 x HKTS200SUB powered subwoofer Two 5-meter (16.4-foot) speaker cables red and white color bands BDS 600 System 1 x BDS 5 5.1-channel Blu-ray Disc receiver 1 x SB10 soundbar speaker 1 x HKTS210SUB powered subwoofer Center speaker wall-mount bracket (BDS 700 system only) One 4-meter (13.1-foot) speaker cable for center speaker green color band (BDS 700 system only) BDS 400 System 1 x BDS 2 2.1-channel Blu-ray Disc receiver 2 x SAT-TS60 satellite speakers 1 x HKTS200SUB powered subwoofer BDS 300 System 1 x BDS 2 2.1-channel Blu-ray Disc receiver 2 x SAT-TS11 satellite speakers 1 x HKTS200SUB powered subwoofer One mono RCA audio cable for connection to the subwoofer purple connectors Two 10-meter (32.8-foot) speaker cables for rear satellites gray and blue color bands (BDS 700 system only) Supplied Accessories If any of these items are missing, please contact harman kardon Customer Service via www.harmankardon.com.

BDS 800, BDS 400 Systems System remote control HDMITM cable Satellite speaker wall-mount brackets (four with BDS 800 system, two with BDS 400 system) FM wire antenna BDS 600 System System remote control Two soundbar wall-mount brackets HDMITM cable FM wire antenna Two rubber feet Two 5-meter (16.4-foot) speaker cables red and white color bands Three speaker cables Center speaker wall-mount bracket (BDS 800 system only) One 4-meter (13.1-foot) speaker cable for center speaker green color band (BDS 800 system only) Metal stop plates and screws for satellite speaker wall-mount brackets (four with BDS 800 system, two with BDS 400 system) One mono RCA audio cable for connection to the subwoofer purple connectors One mono RCA audio cable for connection to the subwoofer purple connectors Two 10-meter (32.8-foot) speaker cables for rear satellites gray and blue color bands (BDS 700 system only) Supplied Accessories If any of these items are missing, please contact harman kardon Customer Service via www.harmankardon.com.



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8-foot) speaker cables for rear satellites gray and blue color bands (BDS 800 system only) 4 BDS Receiver Front-Panel Controls Disc Slot Information Display Eject Button (on top panel) Receiver Front-Panel Controls Standby Button (on top panel) Headphone Jack Volume Control USB Port Disc Slot: Insert a compatible disc into the slot. The BDS receiver's disc player will accept 5-inch (12cm) and 3-inch (8cm) discs. Information Display: Various messages appear on this display in response to commands and to show the audio/video that is playing, the settings or other aspects of the BDS receiver's status as described throughout this manual. Eject Button (on top of unit): Press this button to eject a disc from the BDS receiver's built-in disc player. Before pressing this button, make sure no objects are blocking the disc-slot opening. NOTE: If you do not remove the ejected disc within 90 seconds, it will automatically re-load back into the disc player for protection.

Standby Button (on top of unit): This button toggles the receiver between the On and Standby modes. Power Indicator: This LED surrounds the Standby button. When the BDS receiver is plugged into AC power, the LED turns amber to indicate that the receiver is in Standby mode (ready to be turned on). When you turn the BDS receiver on (by the Standby button or the remote control's Power button), the LED turns white. Headphone Jack: Insert the 3.5mm stereo mini connector from a set of headphones into this jack. NOTE: When a plug is inserted into the Headphone jack, the BDS receiver's speaker outputs automatically mute; the HDMI audio output remains active. Volume Control: Rotate the disc clockwise to raise the volume; rotate counterclockwise to lower the volume. The volume level will appear on the Information Display and on the on-screen menu. IMPORTANT: Do not turn the receiver's Volume control up to or past the point where the audio from the speakers becomes distorted.

Doing so can damage the speakers. USB 2.0 Port: Gently insert a flash drive or HDD disk drive with a USB Standard-A cable to this port. IMPORTANT: Do not connect a PC or other USB host/controller to this port, or you may damage both the BDS receiver and the other device. Orient the device's plug so it fits all the way into the BDS receiver's USB connector.

You may insert or remove the device at any time there is no installation or ejection procedure. 5 ENGLISH BDS Receiver Rear-Panel Connections Main Power Switch Speaker Connectors (BDS 5 Shown) BD-Live Connector Receiver Rear-Panel Connections HDMI Output FM Antenna Connector AC Power Connector Cooling Fan Air Exhaust Optical Digital Inputs Analog Audio Inputs The Bridge IIP Connector Subwoofer Output Coaxial Digital Input NOTE: See the Connections section, on page 14, for detailed information about making connections. AC Power Connector: After you have left in the "Normal" position, there is no absolutely correct setting for it. When the subwoofer is properly in phase with the satellite speakers, the sound will be clearer and have maximum impact. It will make percussive sounds like drums, piano and plucked strings sound more lifelike.

The best way to set the Phase switch is to listen to music that you are familiar with and set the switch in the position that gives drums and other percussive sounds maximum impact. Bass-Boost Switch: Set this switch to "On" to enhance the subwoofer's low-frequency performance. Set this switch to "Off" for normal low-frequency performance. Power-On Mode Switch: When this switch is set in the "Auto" position and when the Power switch is set to "On," the subwoofer will automatically turn itself on when it receives an audio signal. It will enter the Standby mode if it receives no audio signal for 20 minutes. When the Power-On Mode switch is set in the "On" position, the subwoofer will remain on whether or not it is receiving an audio signal. An LED on the subwoofer's top panel indicates whether the subwoofer is in the On or Standby mode: When the LED glows white, the subwoofer is turned on. When the LED is not lit up, the subwoofer is in Standby mode. When the Main Power Switch is set to Off, the LED will not light up, no matter what setting the Power-On Mode switch is in. Subwoofer Level Control: Use this control to adjust the subwoofer's volume.

Turn clockwise to increase the volume; turn counterclockwise to decrease the volume. External Trigger Input Connector: NOTE: This connector is NOT used with the BDS receiver. If you connect the subwoofer to a different component that has a voltage trigger output connection, connect the External Trigger Input to the trigger output of the other compatible component. Whenever the subwoofer detects a trigger signal between 3V and 30V (AC or DC), the subwoofer's amplifier will tune the BDS receiver is in the Standby mode will switch it on. Settings Button: Pressing this button displays the BDS receiver's Settings menu. See Settings Menus, on page 20, for details. Pop-Up Menu Button Next/Step Button Search/ Slow Forward Button Play Button Pause Button Channel Up/ Down Buttons Eject Button Radio Button Disc Button Settings Button Repeat Button iPod Button Aux Button Display Button A-B Button Numeric Buttons Clear Button Home Button Options Button Surround Button Find Button OK Button Top Menu Button Exit Button Previous/Step Button Search/ Slow Reverse Button Stop Button Mute Button Volume Up/Down Buttons Cursor Controls Repeat Button: When the BDS is playing a Blu-ray Disc recording or DVD, pressing this button cycles through the following repeat modes: Chapter, Title, All, Off. When the BDS is playing a CD or listening to media stored on an iPod or USB device, this button cycles through the following repeat modes: Track, All, Off. A-B Button: Pressing this button activates the A-B repeat mode. The first press sets the "A" repeat point; the second press sets the "B" repeat point and begins repeating the section of the program between the two points. Pressing the A-B button while the A-B repeat mode is active cancels the A-B repeat mode. This feature works both for the built-in disc player and for content from a USB device. NOTE: This feature is disc-dependent. Some discs do not allow A-B repeat. Display Button: When playing Blu-ray Disc and DVD recordings, pressing this button activates a bar display containing information about the currently-playing disc or program.

The button does not function when the BDS is playing material from an iPod, a USB device, an auxiliary source or the radio. Numeric Buttons: Use these buttons to enter numbers for various items. Clear Button: This button clears an incorrect entry made using the Numeric buttons. Program (Red) Button Bookmark (Green) Button Zoom (Blue) Button Thumbnail (Yellow) Button 8 BDS Find Button: Pressing this button during disc playback activates the search function, allowing you to jump to a specific location on the disc.



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You can find a location by title, chapter or time.

NOTE: This feature is disc-dependent. Some discs do not allow finding locations by title. **Home Button:** Pressing this button returns the on-screen display to the Home screen from whatever screen is active when the button is pressed. **Surround Button:** Pressing this button cycles through all of the surround-sound modes that are available for the active program. Each press of the Surround button will change to the next mode in line. A pop-up display will appear, showing the modes as you cycle through them. **NOTE:** Not all surround modes will be available for all programs. See Surround-Sound Modes, on page 24, for more information. **Options Button:** Pressing this button displays any available options for the item that is active at the time the button is pressed. When listening to an Aux source, pressing the Options button lets you adjust the audio delay to eliminate "lip sync" errors between the sound and picture when watching video programs with sound playing through one of the receiver's rear-panel audio inputs.

See Listening to Audio Sources, on page 27, for details. **Cursor Controls:** Use these buttons to navigate through items on the on-screen menu. **OK Button:** Press this button to select the highlighted item on the on-screen menu. **Exit Button:** Pressing this button exits the current on-screen menu and displays the previous screen. **Top Menu Button:** Displays the top menu of the Blu-ray Disc recording or DVD that is playing. **NOTE:** This feature is disc-dependent. Not all DVDs have top menus. If the DVD has no top menu, pressing the Top Menu button may display the disc menu, depending on how the disc's menu system was authored. See Using the Disc Player, on page 24, for details. **Pop-Up Button:** Pressing this button while playing a Blu-ray Disc recording or DVD displays its disc menu.

NOTE: This feature is disc-dependent. Not all DVDs have pop-up menus. If the DVD has no pop-up menu, pressing the Pop-Up button may display the disc menu, depending on how the disc's menu system was authored. **Previous/Step Button:** Press this button once to skip to the beginning of a track or, when viewing photos, to the previous photo. Press the button twice to skip to the beginning of the previous track. Press the button repeatedly to go back through the previous chapters or tracks. When video content is playing on Blu-ray Disc recordings and DVDs, press the Pause button first; afterwards, each subsequent press of the Previous/Step button reverses the video one frame. **Next/Step Button:** Press this button once to skip to the beginning of the next track or, when viewing photos, to the next photo. Press the button repeatedly to advance through the next chapters or tracks. When video content is playing, press the Pause button first; afterwards, each subsequent press of the Next/Step button advances the video one frame. **Search/Slow Reverse Button:** Press this button to reverse through a disc track. For Blu-ray Disc recordings and DVDs, each press cycles through 2x, 4x, 8x, 16x and 32x reverse speed. Pressing the button while a Blu-ray Disc recording or DVD is paused will reverse through the chapter in slow motion. Each press cycles through 1/2, 1/4, 1/8 and 1/16 normal speed. **Remote Control Functions Search/Slow Forward Button:** Press this button to fast-forward through the current disc track. For Blu-ray Disc recordings and DVDs, each press cycles through 2x, 4x, 8x, 16x and 32x normal speed. Pressing the button while a Blu-ray Disc recording or DVD is paused will play through the chapter in slow motion. Each press cycles through 1/2, 1/4, 1/8 and 1/16 normal speed. **Stop Button:** Press this button to stop playback at the current point. (Pressing the Play button will resume playback from this point.)

) Press the Stop button twice to stop playback fully. **NOTE:** Some settings and functions will be available only when the player is fully stopped. **Play Button:** Press this button to play a disc that has been loaded into the player's disc drawer or a music file that has been highlighted on the on-screen menu. Pressing this button when viewing photos begins a slide show of all photos in the current folder. **Pause Button:** Press this button to pause a disc or music file that is playing. Pressing the button while a Blu-ray Disc recording or DVD is playing will freeze-frame on the current video frame. Pressing the button while the disc is paused will resume play. Pressing this button while viewing photos freezes the current photo on the screen. **Volume +/- Buttons:** Press these buttons to increase or decrease the volume of the BDS receiver's speaker outputs. **NOTE:** The Volume +/- buttons do not change the volume of the HDMI audio outputs.

IMPORTANT: Do not turn the Volume buttons up to or past the point where the audio from the speakers becomes distorted. Doing so can damage the speakers. **Mute Button:** Press this button to mute the sound from the BDS receiver's speaker outputs. Press the button again to un-mute the sound. **NOTE:** The Mute button does not mute the HDMI audio outputs.

Channel +/- Buttons: When Radio is the source selected on the remote control, the Channel +/- buttons select the next higher or lower preset station. **Bookmark (Green) Button:** Press this button to activate the Bookmark function. See Bookmark Function, on page 25, for more information. **Thumbnail (Yellow) Button:** Press this button while playing a photo slide show to display thumbnail images of all photos in the slide show. **Program (Red) Button:** Press this button to create a programmed playback list for the currently-playing disc.

See Programmed Play, on page 25, for more information. **Zoom (Blue) Button:** Press the Zoom button to zoom in on or recede from a video image or slide. Use the Navigation buttons to zoom in on different sections of the image. **NOTE:** This function is disc-dependent for Blu-ray Disc recordings and DVDs. Not all discs can be zoomed in on. **Red, Green, Yellow and Blue Buttons:** When the BDS is playing a Blu-ray Disc recording, these buttons can activate features and menus that may vary from disc to disc. Refer to the menu instructions for each particular disc for more information. **NOTE:** These Blu-ray Disc functions may override the Bookmark, Thumbnail, Program and Zoom functions. **9 ENGLISH BDS Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300 Systems) Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300 Systems) Placing the Front Left and Front Right Speakers Front Left Speaker Front Right Speaker Placing the Subwoofer Front Left Speaker Front Right Speaker Subwoofer Place the front speakers the same distance from each other as they are from the listening position. Place them at about the same height from the floor as the listener's ears will be.**

You can also angle them toward the listener. Since our ears do not hear directional sound at the low frequencies where the subwoofer operates, it will perform well from just about any location in your room. However, the best bass reproduction is likely to be heard if you place the subwoofer in a corner along the same wall as the front left and right speakers.



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You can experiment with subwoofer placement by temporarily placing the subwoofer in the listening position and playing music with strong bass content. Move around to various locations in the room while the system is playing, and listen until you find the location where the bass performance is best. Place the subwoofer in that location. Placing the Center Speaker (BDS 800 and BDS 700 systems only) Placing the Surround Speakers (BDS 800 and BDS 700 systems only) Center Speaker 0 2ft (0 61cm) Surround Right Speaker Surround Left Speaker TV Front Left Speaker Front Right Speaker 5 6 ft (1.5m 1.8m) Place the center speaker directly above or below the center of the TV screen. Its center should be no more than 2 feet (61cm) above or below the tweeters of the front left and front right speakers.

If you have a CRT television, it may be convenient to set the center speaker on top of the television set. TV Front Left Speaker Center Speaker Front Right Speaker Subwoofer Surround Left Speaker Surround Right Speaker You should place the two surround speakers slightly behind the listening position, facing each other, 5 6 feet (1.5m 1.8m) from the floor. An alternate location would be on a wall behind the listening position, facing forward.

The surround speakers should not call attention to themselves while they're playing. Experiment with their placement until you hear a diffuse, ambient sound from the front left, front right and center speakers. 10 BDS Placing the Speakers (BDS 600 System) Placing the Front Left and Front Right Speakers If your TV is placed on a table, you can place the soundbar on the table directly in front of the TV, centered with the TV screen. Attach the supplied rubber feet to the soundbar as shown in the illustration. Placing the Speakers (BDS 600 System) and Mounting Options for Satellite and Center Speakers Placing the Subwoofer

ENGLISH Follow the subwoofer placement directions in Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300 Systems), on page 10.

Mounting Options for Satellite and Center Speakers Shelf Placement You can place the satellite and center speakers on shelves. BDS 800 and BDS 400 satellite speakers have built-in bases for shelf placement. If you want, you can remove a base by pulling it straight off its speaker. Apply even pressure to both sides of the base and smoothly slide it off the speaker. Apply Pressure Evenly to Both Sides of Base Lift Base Straight off Speaker If your TV is located in an entertainment or media center, you can mount the soundbar in a space directly above or below the TV. WARNING: Do NOT place the soundbar directly on top of a TV or at the front edge of a table or cabinet. It could roll forward and injure someone. Wall-Mounting the Soundbar If your TV is attached to a wall, you can use the included wall-mount brackets to mount the soundbar on the wall directly below the TV screen. 1. Determine the location for the soundbar on the wall.

Make sure that the top of the soundbar will not block your view of the TV screen when it is mounted on the wall. 2. Mark the locations of the soundbar wall-mount bracket holes on the wall. The holes for the left and right brackets are spaced 600mm apart. The top and bottom holes for each bracket are spaced 25mm apart. See the illustration below. Wall-Mounting the BDS 800 and BDS 400 Satellite Speakers IMPORTANT: Read the Connections section, on page

14, before wall-mounting the satellite speakers. You will need to insert the speaker wires through the wall-mount brackets and connect the wires to the speakers during the process of installing the brackets. NOTE: To insure that the soundbar will be level, use a carpenter's level, a laser sight or another device to insure that the two sets of holes are at exactly the same height. 3.

Attach the two wall-mount brackets to the wall at the locations you marked, using hardware that is appropriate for the wall's construction and materials. Note that the soundbar weighs 8.1 lb (3.67kg). Be sure to use hardware that can support this weight.

NOTE: If you are using your own speaker wire, it must be no thicker than the wire supplied with the speakers. Thicker wire will prevent the wall-mount bracket from sliding onto the speaker. 1. Decide on the location for the speaker (see Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300 Systems), on page 10). 2.

Remove the speaker's base as explained in Shelf Placement, on this page. 3. Disassemble the wall-mount bracket by pulling the two sections apart. 4. After making all of the connections described in the Connections section, on page 14, attach the soundbar to the brackets by sliding the slots in its rubber bumpers onto the brackets' vertical tabs. Pull Sections Apart Slide Slots in Rubber Bumpers onto Tabs on Brackets 11 BDS 4. Attach the wall portion of the wall-mount bracket onto the wall using hardware that is appropriate for the wall's construction and materials. We recommend first anchoring the bracket using its keyhole, then attaching it with another anchor through its top opening, as shown in the illustration. The satellite speakers weigh 3.3 lb (1.

5kg). Be sure to use hardware that can support this weight. Top Opening Keyhole Opening Bottom Opening Mounting Options for Satellite and Center Speakers CAUTION: Before making speaker connections, be sure that the BDS receiver is turned OFF and, preferably, its AC cord is unplugged from the AC outlet. 8. Connect the speaker wire to the speaker terminals as shown in the illustration: A. Push Down on Cap to Open Hole B. Insert Bare Wire into Open Hole C. Release Cap to Secure Wire + NOTE: If you're running the speaker wire through the wall, you can bring it out directly behind the bracket location and insert it through the bottom opening in the wall portion of the bracket, as shown in the illustration. This move will keep the wire completely hidden from view once the installation is complete. Insert Wire into Bottom Opening Bring Wire Out Through Here Colored Band to Red Terminal IMPORTANT: Make sure the (+) and (-) bare wires do not touch each other or the other terminal.

Touching wires can cause a short circuit that can damage your receiver or amplifier. 9. Slide the speaker portion of the wall-mount bracket onto the speaker as shown in the illustration below. Fit the grooves on the bracket onto the rails in the speaker, and apply even pressure on both sides of the bracket so it slides straight onto the speaker. Push the bracket all the way onto the speaker until it snaps into place.

Pull any slack speaker wire back through the bracket as you slide the bracket onto the speaker. Push Down Evenly on Both Sides of Bracket 5. If you're not running the speaker wire through the wall, insert it through the wall portion of the wall-mount bracket as shown in the illustration. Fit Bracket Grooves onto Speaker Rails 6.



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Pass the speaker wire through the speaker portion of the wall-mount bracket as shown in the illustration.

Bring Wire In Through Here 10. Slide the speaker onto the bracket's wall section as shown in the illustration. Pull any slack speaker wire back through the bracket's wall section. Bring Wire Out Through Here Slide Speaker onto Bracket 7. If you have not already removed the speaker's base, do so by pulling it straight off the speaker, as shown in the illustration. Applying even pressure to both sides of the base will allow it to slide off smoothly. Apply Pressure Evenly to Both Sides of Base Lift Base Straight off Speaker 11. Fit the metal stop plate into the recess on the bottom of the bracket with the pad facing the bracket, and fasten it to the bracket using two of the supplied screws. Fastening it will prevent the speaker from detaching from the bracket and will hold the speaker's position as you rotate it on the mount. Stop Plate Supplied Screws 12 BDS Wall-Mounting the BDS 800 Center Speaker 1.

Decide on the location for the speaker (see *Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300 Systems)*, on page 10). 2. Attach the center-speaker wall-mount bracket to the wall using hardware that is appropriate for the wall's construction and materials. Attach the anchors through the holes shown in the illustration. Use *These Holes to Attach Bracket to Wall Mounting Options for Satellite and Center Speakers* 3. Bring the speaker cable through the wall-bracket attachment plate, and mount the attachment plate on the wall in the desired location. Bring Speaker Cable Through Opening 4. Thread the speaker cable through the arc-shaped opening on the top of the mounting bracket, not the screw hole. NOTE: The center speaker weighs 3.2 lb (1.45kg). Be sure to use hardware that can support this weight. CAUTION: Before making speaker connections, be sure that your receiver or amplifier is turned OFF and, preferably, its AC cord is unplugged from the AC power source. 3. Connect the speaker wire to the speaker terminals.

A. Push Down on Cap to Open Hole B. Insert Bare Wire into Open Hole C. Release Cap to Secure Wire Overhead View Side View Cable to Speaker Bring Speaker Cable Through Arc-Shaped Opening Cable from Wall Plate + 5. Attach the mounting bracket to the wall plate by inserting the tab at the top of the attachment plate into the slot on top of the bracket and snapping the bracket onto the attachment plate.

Insert Tab into Slot and Snap Bracket onto Plate Feed Cable Through Mount and out of Opening Colored Band to Red Terminal 4. Using two of the supplied screws, attach the center speaker to the wall-mount bracket, as shown in the illustration. 6. Fit the terminal cover onto the bracket as shown in the illustration below, then connect the speaker leads to the terminals on the underside of the speaker. Remember to observe the correct polarity. See *Connecting the Satellite and Center Speakers (BDS 700 and BDS 300 systems)*, on page 15, for more information. Terminal Cover Wall-Mount Bracket Supplied Screws Mounting Bracket Side View Connect Cable Leads to Speaker Terminals Wall-Mounting the BDS 700 and BDS 300 Satellite Speakers 1. Remove the black shelf stand from the bottom of the speaker by unscrewing the bolt. Store the shelf stand and bolt in a safe place in case you need them in the future. 1.

Remove Bolt 2. Remove Stand 7. Fit the terminal cover into the opening on the underside of the speaker so that it is flush against the speaker and covers the terminals. Insert the supplied long bracket bolt up through the bottom of the bracket and terminal cover, and screw it into the threaded insert on the underside of the speaker. The bolt should be snug but not so tight as to prevent the speaker from pivoting on the bracket. Fit Terminal Cover into Recess on Speaker

Bottom 2. Determine the locations for the speakers. (See *Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300)*, on page 10, for more information.) If possible, position the speakers so that the mounting screws (not included; use size #8) can be installed directly into a wall stud. If that is not possible, use optional wall anchors that are rated to support at least 25 lb (11.

3kg) and are appropriate for the construction and materials Attach Speaker to Bracket Using Long Bolt 13 ENGLISH of your wall. The customer is responsible for the proper selection and use of mounting hardware, available through hardware stores, to wall-mount the speakers properly and safely. BDS

You can pivot the wall-mounted speaker from side to side; however, attempting to tilt it up or down will damage the bracket and possibly the wall, which would not be covered by your warranty. *Mounting Options for Satellite and Center Speakers, and Connections Connections* CAUTION: Before making any connections to the BDS receiver, ensure that the receiver's AC cord is unplugged from the receiver and the AC outlet. Making speaker connections with the receiver plugged in and turned on could damage the speakers.

Speakers and receivers/amplifiers have corresponding (+) and (-) connection terminals. Your system's satellite speakers use red to denote the (+) terminal and black for the (-) terminal. The BDS 2 receiver uses white to denote the left channel (+) terminal and red for the right channel (+) terminal. Black is used to denote the (-) terminal of both channels. The BDS 5 receiver uses the following colors to denote the (+) terminals of the various channels: Front Left (+): White Surround Left (+): Blue Front Right (+): Red Surround Right (+): Gray Center (+): Green Black is used to denote the (-) terminals of all channels on the BDS 5 receiver.

The speaker wires included with your system have colored bands at both ends of the (+) conductor; the colors correspond to the receiver's (+) terminal colors. This system helps you connect each speaker to the correct receiver or amplifier terminals. In addition to the colored bands at each end, each speaker wire's (+) terminal has ribs molded into its insulation to help identify it. Be sure to connect each speaker identically: (+) on the speaker to (+) on the receiver or amplifier, and (-) on the speaker to (-) on the receiver or amplifier. Miswiring one or more speakers results in thin sound, weak bass and a poor stereo image. CAUTION: Make sure the (+) and (-) bare wires do not touch each other or the other terminal. Touching wires can cause a short circuit that can damage your receiver or amplifier. Wall-Mounting the BDS 700 Center Speaker 1. Determine the location for the speaker (see *Placing the Speakers (BDS 800, BDS 700, BDS 400 and BDS 300 Systems)*, on page 10, for more information). If possible, position the speaker so that one of the mounting screws (not included; use size #10) can be installed directly into a wall stud.

If that is not possible, use optional wall anchors that are rated to support at least 25 lb (11.



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3kg) and are appropriate for the construction and materials of your wall. The customer is responsible for the proper selection and use of mounting hardware, available through hardware stores, to wall-mount the speaker properly and safely. 2. Bring the speaker cable through the wall-bracket attachment plate as shown, and mount the attachment plate on the wall in the desired location. Bring Cable Through Opening Use Mounting Hardware Appropriate for Wall Construction and Materials 3. Remove the rubber pads from the foot rests on the bottom of the center speaker and connect the speaker leads to the terminals on the underside of the speaker. Remember to observe the correct polarity. See Connecting the Speaker Terminals (BDS 700 and BDS 300 systems), on page 15, for more information. Connect Cable Connecting the Satellite and Center Speakers (BDS 800 and BDS 400 systems) Front Right Center* Front Left Remove Pads 4.

Use the supplied screws to attach the speaker to the wall-mount bracket. The screws thread into the center foot-rest openings that were exposed when you removed the rubber pads in the previous step. Use Supplied Screws to Attach Speaker to Bracket + + + Front Right Cable (Red Bands) Center Cable (Green Bands) Front Left Cable (White Bands) Thread Screws into Center Openings Surround Right Cable (Gray Bands) Surround Left Cable (Blue Bands) BDS Receiver (BDS 5 shown) + + Surround Right* Surround Left* *Speakers included only in BDS 800 system 14 BDS Connecting the Satellite and Center Speakers (BDS 700 and BDS 300 systems) Center Front Right Front Left Connections Connecting the Speaker Terminals (BDS 800 and BDS 400 systems) 1. 2. 3.

+ + + 3. 1. + 2. + Front Right Cable (Red Bands) Center Cable (Green Bands) Front Left Cable (White Bands) Colored Band to Red Terminal BDS Receiver (BDS 5 shown) Surround Right* Surround Left* Connecting the Speaker Terminals (BDS 700 and BDS 300 systems) 1. 2. 3. + Surround Right Cable (Gray Bands) Surround Left Cable (Blue Bands) *Speakers included only in BDS 700 system + Colored Band to Red Terminal Connecting the Speaker Terminals (BDS 600 system) 1. 2. 3. + + Connecting the Satellite and Center Speakers (BDS 600 system) SB 10 Soundbar Colored Band to Red Terminal L + C + R + Connecting the Receiver Terminals (all systems) A. Unscrew Cap B. Insert Bare Wire C. Tighten Cap Red White Green Band Band Band White Band Green Band Red Band BDS Receiver 15 ENGLISH BDS Connecting the Subwoofer (all systems) Use the supplied mono RCA audio cable (purple connectors) to connect the subwoofer's LineLevel LFE In connector to the BDS receiver's Subwoofer output. Connections Connecting a TV or Video Display Use the supplied HDMI cable to connect the BDS receiver's HDMI output to your TV/video display's HDMI input. The BDS receiver is HDMI version 1.

3a. BDS Receiver (BDS 2 shown) To Subwoofer Output TV Mono RCA Cable (included) Subwoofer To Line Level LFE In IMPORTANT: Do not plug the subwoofer's AC power cord into an AC outlet at this time. NOTE: The HDMI connection will deliver both video and audio to your TV or video display. We suggest disabling your TV or video display's audio system to take full advantage of your BDS system's superior audio reproduction. Connecting the Radio Antenna Connect the supplied antenna to the Radio Antenna connection, as shown in the illustration below. Fully extend the antenna wire and move it to different positions until you get the best reception of your favorite stations. 16 BDS Connecting Audio Sources Connecting to a Local Area Network (LAN) Connections NOTE: The BDS receiver can not access content on other networked devices. The Network connection enables only the receiver's BD-Live features. See BD-Live Interactivity, on page 26, for details. To Internet TV To Optical Output -ORCat.

5/5E Network Modem To Audio Output Connecting the AC Power Tape Deck To Play Output The BDS receiver comes with a detachable AC power cord. This type of cord makes it easier for you to install and connect all other system wiring to the receiver's rear panel. The subwoofer has a non-detachable power cord. NOTES: The power requirement for the BDS receiver is 110V 240V AC, 50/60Hz, 110W (BDS 5 receiver) or 70W (BDS 2 receiver). The power requirement for the subwoofer is 110V 120V AC, 60Hz, 200W (USA) or 220V 240V AC, 50/60Hz, 200W (EU).

Connecting to a power source other than the ones listed may damage the receiver or subwoofer, or cause abnormal operation. Before connecting the AC power cords to wall outlets, confirm that you have correctly made all of the speaker connections, video connections and audio-component connections. Connect the female end of the receiver's detachable power cord to the receiver's AC Power Input connector. Plug the other end into a working, unswitched AC outlet. Plug the subwoofer's power cord into a working, unswitched AC outlet as well.

Cable/Satellite Tuner To Optical Output Digital Audio Source To Coaxial Output Receiver Subwoofer PL0004-01001 Analog Audio Inputs 1 and 2: If you have an audio-only analog source component (such as a tape deck), connect its left and right analog outputs to the Analog Audio Input 1 or Analog Audio Input 2 jacks as shown in the illustration. NOTE: To hear a TV show through your BDS system, you need to connect the audio output of your TV to the BDS receiver. If your TV has a digital-audio output, you can connect it to one of the BDS receiver's digital inputs (see below). If your TV does not have a digital-audio output, you will need to connect the TV's analog-audio output to the BDS receiver's Analog Audio Input 1 or Analog Audio Input 2 jacks. Coaxial In and Optical 1/Optical 2 In: If you have an audio-only digital source component (such as a CD changer or video game), you can connect it to one of these inputs, as shown in the illustration. When using the Optical 1 and Optical 2 digital connections, gently push the cable connector through the panel connector's built-in shutter until it is firmly seated in the connector. NOTE: Use only one type of digital connection for each source component. USA: 120V, 60Hz EU: 220V 230V, 50Hz/60Hz 110V 240V, 50Hz/60Hz Set the receiver's and subwoofer's Main Power switches in the "On" position. The receiver's Power indicator will turn amber, indicating that the receiver is in the Standby mode. The subwoofer's LED will not light up until it receives a turn-on signal.

See Subwoofer Controls and Connections, on page 7, for details. 17 ENGLISH Use a CAT. 5/RJ45 network cable (not supplied) to connect the BDS receiver's BD-Live connector directly to a network router, a network switch, a network modem or an Ethernet network wall jack that has Internet access.



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BDS Preparing the Remote Control Installing the Batteries Your BDS system remote control uses 3 AAA batteries (supplied). Insert the batteries as shown in the illustration, making sure to observe the correct polarity. 1. 2. 3. Preparing the Remote Control 6. If you run out of codes, you can search through all of the codes in the remote's library for that product type.

a) Press and hold the Aux button for three seconds. The button will turn red, go dark and turn red again. Then release the button. b) For a conventional US TV, enter "0999"; for a conventional EU TV, enter "1999"; for an HDTV, enter "2999"; for a US cable box, enter "3999"; for an EU cable box, enter "4999"; for a US satellite tuner, enter "5999"; for an EU satellite tuner, enter "6999." c) Aim the remote control toward the component and press the remote's Cursor Up button.

Each press of the button sends the "Power" signal for one setup code number. Holding down the Cursor Up button quickly scans through all of the setup code numbers. d) Release the Cursor Up button as soon as the component turns off. If you pass the correct setup code number, you can return to it by pressing the

Cursor Down button, one setup code number at a time, until the component turns back on. e) Check that the other remote-control buttons control the component as expected.

If they do, press the Aux source selector button again to save the code. The button will flash three times, and the remote will exit the programming mode. f) If the remote does not operate as expected, repeat Steps c e. Note that some components may not respond to all of the above commands and may support only some of the commands listed. To teach individual button codes to the remote: 1 2 5 8 0 3 6 9 1 2 5 8 0 3 6 9 1 4 7 2 5 8 0 3 6 9 4 7 4 7 + + + + + + + +

Using the Remote When using the remote, remember to aim it toward the receiver's front panel. Make sure that no objects, such as furniture, block the remote's view of the receiver. Bright lights, fluorescent lights, and plasma-video displays may interfere with the function of the remote. The remote has a range of about 20 feet (6.1m), depending on the lighting conditions. You can use the remote at an angle of up to 30° to either side of the BDS receiver.

@@@@@@@@@@@@@@@@To program the remote to control an Aux component: 1. Look up the codes for the product type (e.g. @2. Turn your auxiliary component on. 3. @Then release the button. NOTE: The remote will remain in the programming mode for 20 seconds. You must perform Step 4 within 20 seconds. 4.

@@@@If they do, press the Aux button again to save the code. @5. @@@@2. @The remote's Aux button will light up. 3.

@@@@4. @@@@@To resume programming, return to Step 2. 5. @@@@@@1. @The button will light up, go dark and then light up again.

Release the button. 2. Select the type of punch-through programming. @@@@3. Press the Aux button. The original source button will flash to confirm.

@@@@@@@@If you are unsure, select 'Auto'. @@@@@To set up your BDS system, you will use the remote to navigate through all of the on-screen menus and make selections from them. Use the Cursor Up/Down buttons to navigate through the menu list. When an item is highlighted, a border will appear around it.

To select a highlighted item, press the OK button. The screen will change depending on your selection. To return to the previous screen, press the Exit button.

Previous OK Next After selecting your TV's highest resolution, press the OK button and the Wizard's aspect-ratio screen will appear. NOTE: If you're unsure of your TV's highest resolution, select "Auto," and BDS will automatically select the optimal resolution for you. Setup Wizard Page: 4/5 Please select the best aspect ratio that fits your TV. 16:9 Full 16:9 Normal 4:3 Pan & Scan 4:3 Letterbox Setup Wizard When you turn your BDS receiver on for the first time, the on-screen menu will display the Setup Wizard. Setup Wizard Page: 1/5 Welcome to the Harman Kardon BDS Setup Wizard. Some simple information is needed to ensure you get the best experience from your product. You can adjust these settings later in addition top making changes to more advanced settings

by pressing the 'Settings' button on the remote.

Previous OK Next After selecting the aspect ratio that best fits your TV, press the OK button to save your setting, and then press it again to exit the Setup Wizard. OK Next Before you can use your BDS system, you need to set the language and make a few basic settings so that the BDS receiver's video output will work properly with your TV. Press the OK button and the Wizard's language screen will appear. 19 ENGLISH Setup Wizard Page: 2/5 BDS Settings Menus Pressing the remote's Settings button displays the receiver's settings menus, which allow you to configure the receiver's various functions. Use the remote's Cursor Left/Right buttons to change from one menu to another, use the Cursor Up/Down buttons to navigate through the lists that appear on the various screens, and use the OK button to select highlighted items.

Press the Exit button at any time to return to the previous screen. Setting Up the Receiver Restore Defaults: This option restores the receiver to its factory-default setting values. Note: This procedure deletes all preset FM stations and restores the parental-control password back to the factory default of 0000. Language: This setting lets you set the language for the disc player and the disc menus, the preferred audio language and the preferred subtitle language. NOTE: If the selected language is not available on the particular disc being played, use the disc's menu to set the language from those available on the disc. Playback: The Playback option allows you to set the following disc playback features: Show Angle Icon : This option lets you select whether or not the angle icon will automatically be displayed when a disc with multiple camera angles is played. Auto Play : This option lets you select whether discs will automatically begin playing when they are loaded into the BDS receiver's disc player. Show PIP Icon : This option lets you select whether or not the picture-in-picture (PIP) icon will automatically be displayed when a Blu-ray Disc recording with PIP content is played. Show Secondary Audio Icon : This option lets you select whether or not the Secondary Audio Icon will automatically be displayed when a Blu-ray Disc recording with secondary audio content is played. Disc Resume : This option lets you select whether or not a disc that has been ejected while playing will resume play from that location when it is re-inserted into the receiver's disc player. DivX® VOD DRM : This option displays your receiver's DivX registration information.



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Audio Settings Tone Controls Audio Out to TV Speaker Settings Ls L C R Rs L R SWI 10 8 L (0.0 dB, 10 ft) R (0.0 dB, 8 ft) Audio Settings Tone Controls Audio Out to TV Speaker Settings Ls SUB 3. Measure the distance from the listening position to each of your system's speakers, including the subwoofer. Write down the distances. 4. Use the left and right arrow buttons to adjust the "L" bar until it shows the distance you measured to the front left speaker (the arrowheads indicate which speaker is being adjusted). Rs L Center R 5. Press the Exit button twice to return to the speaker setup screen (the front left and front right speakers will still be highlighted).

6. Press the Cursor Down button. The subwoofer will be highlighted. Press the OK button. The Level and Distance screen will appear.

L (0.0 dB, 3 ft) R (0.0 dB, 3 ft) 7. Repeat Steps 2-6 for the subwoofer. If you have a BDS 800, BDS 700 or BDS 600 system, repeat Steps 2-6 again for the center speaker, and if you have a BDS 800 or BDS 700 system, repeat Steps 2-6 again for the surround left and surround right speakers.

8. When you have entered the distances to all of your system's speakers, press the Exit button repeatedly until the harman kardon logo screen appears. NOTE: Leave all the speaker levels set at "0" for now. You will be able to adjust the individual speaker levels once your system is set up and you're playing music or films. See Adjusting Individual Speaker Volumes, on this page. Setting the speaker distances: 1. The front left and front right speakers will be highlighted.

Press the OK button. The Level and Distance selection screen will appear. Audio Settings Tone Controls Audio Out to TV Speaker Settings Ls L Information Menu Center R Rs Level Distance SWI Information Software Version: BDS V1.

04.06 L (0.0 dB, 3 ft) R (0.0 dB, 3 ft) MAC Address: 00-1B-44-12-1D Select to browse system information The Information menu will display the receiver's software/firmware version number and the player's factory-assigned network MAC Address. This screen is for information only and allows no user adjustments. 22 BDS Using the receiver NOTE: Before using your new BDS system, be sure to set the speaker distances, as explained in Audio Settings: Speaker Settings, on page 22. Using the Receiver Home Menu Press the Home button to display the Home Menu screen: Home Menu Blu-ray Disc USB FM Radio Playlist Settings Type:Disc Size:23684.875M FS:UDF Audio Settings Tone Controls Audio Out to TV Speaker Settings Ls L Center R Rs Level Distance SWI L (0.0 dB, 3 ft) R (0.0 dB, 3 ft) 1/5 HOME Exit OPTIONS Option 5.

Make sure that Level is highlighted, and press the OK button. The Volume adjustment bars will appear. The available sources are listed on the left. If a disc has been inserted into the receiver's built-in disc slot, it will appear on the list as either "CDDA" (CD), "DVD Video" (DVD) or "Blu-ray Disc." NOTE: Audio sources connected to the receiver's rear-panel digital and line inputs will not appear on the list.

To select a source from the list, use the remote control's Cursor Up/Down buttons to highlight the desired source, then press the OK button to select it. To use the Playlist function, see Using Playlists, on page 29. You can also select a source directly by pressing its button (Radio, Aux, etc). Audio Settings Tone Controls Audio Out to TV Speaker Settings Ls L C R Rs L R SWI 10 8 Adjusting Individual Speaker Volumes You can adjust the volumes of the system's individual speakers while you're listening to music or watching films. 1.

Press the Settings button. The Settings menu will appear. 2. Select the Audio option. The Audio menu will appear. 3. Select Speaker Settings, then select Configuration, and then select your system's speaker configuration. After you select your system's configuration, the speaker setup screen will appear (BDS 800 5.1 system screen shown). L (0.

0 dB, 10 ft) R (0.0 dB, 8 ft) 6. Select the speaker you want to adjust, and use the left and right arrow buttons to adjust its volume. You can vary the volume from +10dB to 10dB, in 1dB increments. 7. Press the Exit button twice to return to the speaker setup screen (the front left and front right speakers will still be highlighted). To adjust the volume of a different speaker, use the cursor buttons to highlight it and press the OK button. Repeat Steps 5-6 for that speaker. 8.

When you are finished adjusting the volumes of all of your system's speakers, press the Exit button repeatedly until the harman kardon logo screen appears. Notes on Setting Speaker Volumes in 5.1-Channel Systems: Audio Settings Tone Controls Audio Out to TV Speaker Settings Ls SUB While setting your system's individual speaker volume levels is ultimately up to your personal taste, here are some ideas you may find helpful: L Center R Rs L (0.0 dB, 3 ft) R (0.0 dB, 3 ft) For films and video-music programs, your overall goal should be to create an enveloping, realistic sound field that draws you into the film or music program without drawing your attention away from the action on the screen. For multichannel music recordings, some music producers will create a sound field that places the musicians all around you; others will create a sound field that places the musicians in front of you, with more subtle ambience in the surround speakers (as you would experience in a concert hall).

In most 5.1-channel films, the surround channels are not intended to be as loud or as active as the front channels. Adjusting the surround speakers so they are always as loud as the front channels could make dialogue difficult to understand and will make some sound effects sound unrealistically loud. 23 ENGLISH 4. The front left and front right speakers will be highlighted.

To adjust either of them, press the OK button. To adjust a different speaker, use the cursor buttons to highlight it and press the OK button. The Level and Distance selection screen will appear. BDS Notes on Setting Subwoofer Volume: Sometimes the ideal subwoofer volume setting for music is too loud for films, while the ideal setting for films is too quiet for music. When setting the subwoofer volume, listen to both music and films with strong bass content and find a "middle ground" volume level that works for both. If your subwoofer always seems too loud or too quiet, you may want to place it in a different location. Placing the subwoofer in a corner will always tend to increase its bass output, while placing it away from any walls or corners will always tend to lessen its bass output. IMPORTANT: Do not turn the receiver's volume up to or past the point where the audio from the speakers becomes distorted. Doing so can damage the speakers. Using the Receiver and Using the Disc Player Listening Through Headphones Your BDS receiver's headphone connection accepts a standard 3.



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