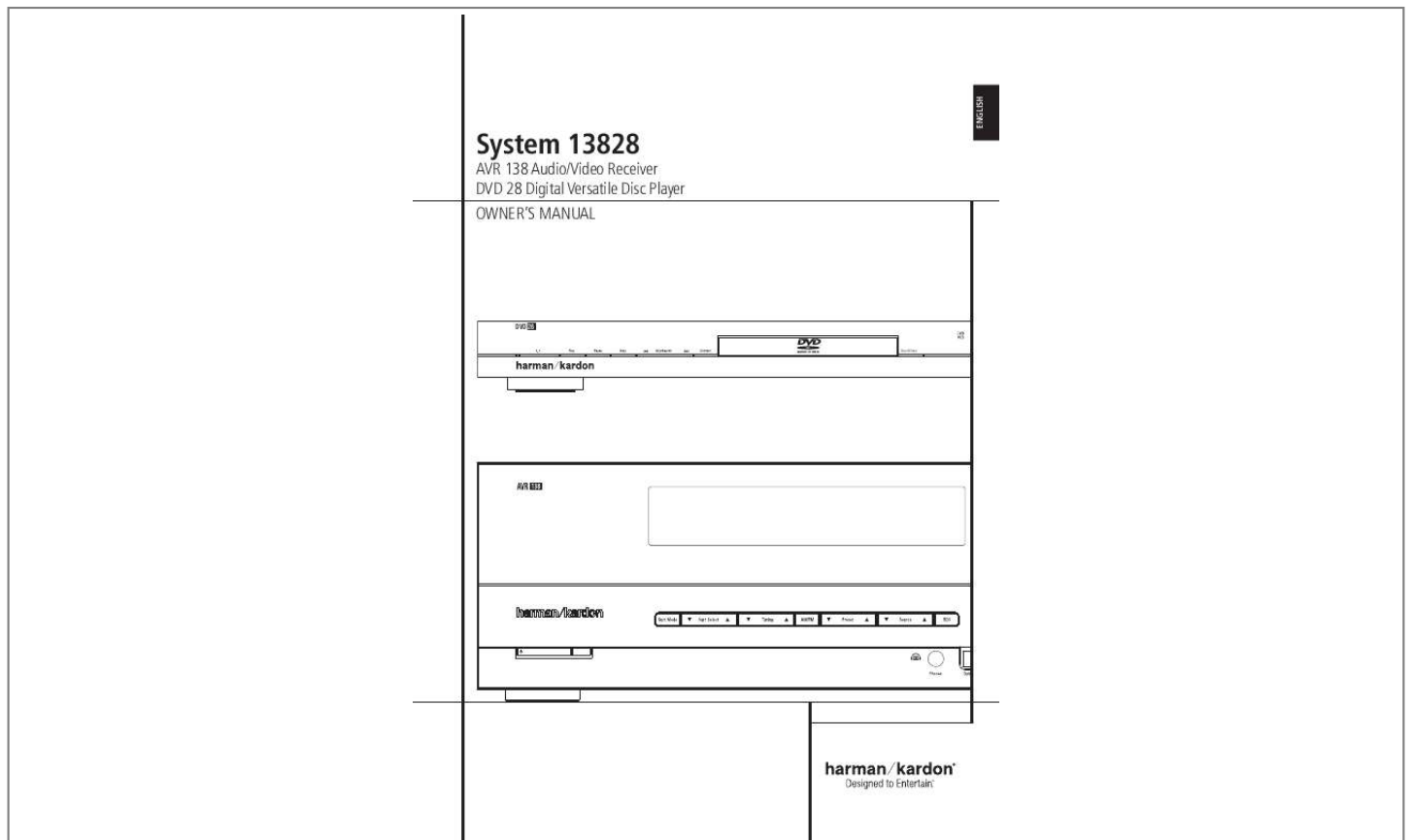




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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON SYSTEM 13828. You'll find the answers to all your questions on the HARMAN KARDON SYSTEM 13828 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HARMAN KARDON SYSTEM 13828
User guide HARMAN KARDON SYSTEM 13828
Operating instructions HARMAN KARDON SYSTEM 13828
Instructions for use HARMAN KARDON SYSTEM 13828
Instruction manual HARMAN KARDON SYSTEM 13828



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Manual abstract:

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 0 (number in a square) indicates a specific front-panel control 0 (number in a circle) indicates a rear-panel connection 0 (number in an oval) indicates a button or indicator on the remote. 2 TABLE OF CONTENTS Safety Information Important Safety Information 1. Read these instructions. 2. Keep these instructions. 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. 8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat. 9. Do not defeat the safety purpose of the polarized or grounding-type plug.

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. @ @11. Only use attachments/accessories specified by the manufacturer. 12. @ @ @13. Unplug this apparatus during lightning storms or when unused for long periods of time. 14.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 15. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus. 16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle. 17. The mains plug of the power supply cord shall remain readily operable. 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. Do Not Open the Cabinet There are no user-serviceable components inside this product. Opening the cabinet may present a shock hazard, and any modification to the product will void your guarantee.

If water or any metal object such as a paper clip, wire or a staple accidentally falls inside the unit, disconnect it from the AC power source immediately, and consult an authorized service station. Installation Location To assure proper operation and to avoid the potential for safety hazards, place the unit on a firm and level surface. When placing the unit on a shelf, be certain that the shelf and any mounting hardware can support the weight of the product. 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. Do not place the unit directly on a carpeted surface. Avoid installation in extremely hot or cold locations, or an area that is exposed to direct sunlight or heating equipment. Avoid moist or humid locations. Do not obstruct the ventilation slots on the top of the unit, or place objects directly over them. Cleaning When the unit gets dirty, wipe it with a clean, soft, dry cloth. If necessary, wipe it with a soft cloth dampened with mild soapy water, then a fresh cloth with clean water. Wipe dry immediately with a dry cloth. NEVER use benzene, aerosol cleaners, thinner, alcohol or any other volatile cleaning agent. Do not use abrasive cleaners, as they may damage the finish 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. ENGLISH Unpacking The carton and shipping materials used to protect your new receiver during shipment were specially designed to cushion it from shock and vibration. We suggest that you save the carton and packing materials for use in shipping if you move, or should the unit ever need repair. To minimize the size of the carton in storage, you may wish to flatten it. This is done by carefully slitting the tape seams on the bottom and collapsing the carton. Other cardboard inserts may be stored in the same manner. Packing materials that cannot be collapsed should be saved along with the carton in a plastic bag. If you do not wish to save the packaging materials, please note that the carton and other sections of the shipping protection are recyclable. Please respect the environment and discard those materials at a local recycling center.

SAFETY INFORMATION 3 Remote Control Functions, common for AVR 138 and DVD 28 bcd a h g f d c a Z Y X W U S `y V T R z x w m o b P TU SE e f e g 7 8 j k l n p q r s t u v 0 Power On Button 1 Not active 2 IR Transmitter Window 3 Power Off Button 4 Mute 5 Input Selectors 6 Info 7 Volume Up/Down 8 HD Mode Selector 9 Speaker Select/Setup A OK Button B Delay/Status Button C Memory/Angle Button D Clear Button E Preset Up/Down F RDS

Select/Progressive Scan/Interlaced Button G Playlist H A-B I DTS Neo:6 Mode Selector J Stereo Mode Selector K Logic 7 Selector L Dim Button M Transport Buttons N Skip Up/Down Buttons (DWN)/(UP) O Night Mode P DTS Digital Mode Selector Q Dolby Mode Selector R Repeat S Random T Tone Mode/Test Tone ON/OFF U Tuning Up/Down V Direct Button W Tuner Mode/Zoom X Numeric Keys Y Digital Select/Audio Mode Z Navigation Buttons a Channel Select /Disc Menu Button b V.OFF c Surround Mode Selector/Program Down/Subtitle Button d Sleep/Program Up/Audio Select Button e Title f 6-Channel Direct Input g AM/FM Tuner Select h AVR Selector 138 28 4 REMOTE CONTROL FUNCTIONS Remote Control Functions, common for AVR 138 and DVD 28 IMPORTANT NOTE: The 13828 remote has some buttons that perform different functions. If you press the AVR Button h, one set of functions is active, identical to the functions for buttons CD, Tape, Video 1/2/3. If you press the DVD Button 5, some of the buttons change their function as indicated above the button itself, and explained below. Refer to the function table for an overview of functions in both modes.

0 Power On Button: Press this button to turn on the power to the AVR or the DVD selected by pressing either the AVR or the DVD Button h or 5.



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1 This indicator is not active. 2 IR Transmitter Window: Point this window towards the AVR when pressing buttons on the remote to make certain that infrared commands are properly received. 3 Power Off Button: Press this button to place the AVR or a selected device unit in the Standby mode. If held for more than 3 seconds, both the AVR and the DVD switch to Standby.

4 Mute: Press this button to momentarily silence the AVR or TV set being controlled, depending on which device has been selected. 5 Input Selectors: Pressing one of these buttons will perform three actions at the same time. First, if the AVR is not turned on, this will power up the unit. Next, it will select the source shown on the button as the input to the AVR. Finally, the DVD Button will switch the doublefunction remote buttons to their DVD functions. After pressing the DVD Button, you must press the AVR Selector button again to operate all the AVR's functions with the remote. Note that pressing the DVD Button switches on BOTH the AVR and the DVD, whereas pressing the AVR Button just switches on the AVR. 6 Info (DVD): Press for detailed informations on the disc playing (Video/Audio Bit rate, Movie aspect ratio and others), and for current player settings made. Note that the unit doesn't react on any transport button as long as the info menu is displayed. Press again to remove information from screen.

7 Volume Up/Down: Press these buttons to raise or lower the system volume. 8 HD Mode Selector (DVD): When the DVD player is connected to a video display using the HDMI Output A, the display sends information to the DVD indicating the highest video resolution it is capable of handling, and the DVD automatically sets the video output to match it. Pressing this button allows you to manually change the output resolution, with your selection indicated by the Video Output Indicators O. The DVD will not allow you to select a resolution beyond the capabilities of your display, and if you try to do so, an on-screen error message will appear to alert you to the selection of an incompatible video format. Changes made with this button remain active until the DVD or the display is turned off. When either is turned off, and then on again, the DVD will revert to the default setting transmitted by the display. 9 Speaker Select/Setup: Press this button to begin the process of configuring the AVR's Bass Management System for use with the type of speakers used in your system. Once the button has ne of the available Logic 7 surround modes. (See page 19 for the available Logic 7 options). L Dim Button: Press this button to activate the Dimmer function, which reduces the brightness of the front panel display, or turn it off entirely.

The first press of the button shows the default state, which is full brightness by indicating VFD FULL in the Main Information Display F. Press the button again within five seconds to reduce the brightness by 50%, as indicated by VFD HALF. Press the button again within five seconds and the main display will go completely dark. Note that this setting is temporary; the display will always return to full brightness when the AVR is turned on. In addition, both the Power Indicator 2 and the blue accent lighting inside the volume control will always remain at full brightness regardless of the setting.

This is to remind you that the AVR is still turned on. M Transport Buttons: These buttons operate the DVD player. N Skip Up/Down Buttons (DVD): (DWN): Press to go to beginning of current track. Press again quickly to go to beginning of previous track. After pressing the PAUSE button, each press of this button will move the image in reverse frame by frame.

(UP): Press to go to beginning of next track. After pressing the PAUSE button, each press of this button will move the image forwards frame by frame. O Night Mode: Press this button to activate the Night mode. This mode is available only with Dolby Digital encoded digital sources, and it preserves dialog (center channel) intelligibility at low volume levels (See page 17 for more information). P DTS Digital Mode Selector: When a DTS source is in use the AVR will select the appropriate mode automatically and no other mode will be available. Pressing this button will display the mode currently selected by the AVR's decoder, depending on the surround material played and the speaker setting. Q Dolby Mode Selector: This button is used to select one of the available Dolby Surround processing modes. Each press of this button will select one of the Dolby Pro Logic II modes, Dolby 3 Stereo or Dolby Digital. Note that the Dolby Digital mode is only available with a digital input selected and the other modes only as long as a Dolby Digital source is not playing. R Repeat (DVD): Each press of this button changes the playback mode to repeat a chapter or track or the entire disc.

A repeat icon will appear in the upper right corner of the screen indicating the current repeat mode. If the Player Information Screen is active, the changes will be displayed on screen. S Random (DVD): Press for RANDOM playback in rand039;s menu. d Sleep/Program Up>/Audio Select Button: Press this button to place the unit in the Sleep mode. After the time shown in the display, the AVR will automatically go into the Standby mode. Each press of the button changes the time until turn-off in the following order: 90 min 40 min 80 min 30 min 70 min 20 min 60 min 10 min 50 min OFF No. 1 2 5 44 6 6 6 43 6 42 6 6 40 41 8 8 39 38 9 8 37 10 36 36 11 36 36 35 12 34 34 34 34 34 34 34 33 34 34 13 31 32 14 15 31 30 16 15 29 28 18 17 27 28 19 25 21 20 24 24 22 23 23 23 23 23 Button Name Power On Power Off Mute AVR DVD TAPE VID1 AM/FM CD 6CH VID2 VID3 Sleep/ Audio Title Info Vol Up Surr./ Subt. V.OFF HD-M Vol Down CH.

/ Disc menu SPKR / Setup Level+/Up Left < OK Right > Level-/Down Digital / Audio mode Delay / Status 1 2 3 4 5 6 7 8 TUN-M / Zoom 9 0 MEM / Angle Tuning Up Direct Clear Preset Up Tuning Down Tone RDS/ P/I Preset Down Random Repeat A-B Playlist Dolby Surround DTS Surround DTS NEO:6 Night Logic7 Stereo Skip Down Skip Up DIM Rew(G) Play(AB) FF(H) Open/Close Stop Pause AVR/TAPE/CD/VID1/VID2/VID3 AUDIO Power On Power Off Mute AVR Power On DVD TAPE VID1 AM/FM CD 6CH VID2 VID3 Sleep Vol Up Surr. Hold the button pressed for two seconds to turn off the Sleep mode setting. Note that this button is also used to change channels on your TV, VCR and SAT receiver when selected. DVD: Press to access various audio languages on a DVD (If the DVD contains multiple audio streams). e Title: When a disc is playing, press to make the player go back to the first section of the disc.

If you are playing a DVD-Audio disc that contains other formats the DVD is capable of playing, such as linear PCM or Dolby Digital 5.1, pressing this button may enable you to switch playback from one audio format to another. f 6-Channel Direct Input: Press this button to select the component connected to the 6-Channel Direct Input N as the audio. Note that when you wish to use the Six Channel Direct Input in conjunction with a video source, you must first select the video source by pressing one of the Input Selectors 5.



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Then press this button to choose the 6-Channel Direct Input N as the audio source.

g AM/FM Tuner Select: Press this button to select the AVR's tuner as the listening choice. Pressing this button when the tuner is in use will select between the AM and FM bands. h AVR Selector: Pressing this button will switch the remote so that it will operate the AVR's functions. If the AVR is in the Standby mode, it will also turn the AVR on. Vol Down Channel Speaker Level+/Up Left < SET Right > Level-/Down Digital Delay 1 2 3 4 5 6 7 8 TUN-M 9 0 Memory Tuning Up Direct Clear Preset Up Tuning Down Tone Mode/Test Tone ON-OFF RDS Preset Down DVD DVD Power On Power Off Mute (AVR) AVR DVD TAPE VID1 AM/FM CD 6CH VID2 VID3 Audio Title Info Vol Up Subtitle V.OFF HD Mode Vol Down Disc Menu Setup Up Left Enter Right Down Audio mode Status 1 2 3 4 5 6 7 8 Zoom 9 0 Angle Clear Slow Up Dolby Surround DTS Surround DTS NEO:6 Night Logic7 Stereo Skip Down(DVD) Skip Up(DVD) Dimmer Rew(DVD) Play(DVD) FF(DVD) Open/Close(DVD) Stop(DVD) Pause(DVD) P/I Slow Down Random Repeat A-B Playlist Dolby Surround DTS Surround DTS NEO:6 Night Logic7 Stereo Prev Step Next Step Dimmer REW Play FF Open/Close Stop Pause REMOTE CONTROL FUNCTIONS 7 Front Panel Controls D F 5 J I DIGITAL PRO LOGIC 3 STEREO DSP LOGIC 7 VID 1 VID 2 VID 3 DVD CD FMAM TAPE 6 CH 5 CH. STEREO SURR. OFF 1 2 6 C 7 8 9 E B A 3 4 G H 0 1 2 3 4 5 6 Main Power Switch System Power Control Power Indicator Headphone Jack Digital Optical 3 Input Speaker/Channel Input Indicator Surround Mode Group Selector 7 Tuning 8 Tuner Band Selector 9 Preset Stations Selector A Input Source Selector B RDS Select Button C Surround Mode Selector D Surround Mode Indicators E Remote Sensor Window F Main Information Display G Digital Coax 3 Input H Video 3 input jacks I Volume Control J Input Indicators 0 Main Power Switch: Press this button to apply power to the AVR. When the switch is pressed in, the unit is placed in a Standby mode, as indicated by the orange LED 2. This button MUST be pressed in to operate the unit.

To turn the unit off completely and prevent the use of the remote control, this switch should be pressed until it pops out from the front panel so that the word "OFF" may be read at the top of the switch. NOTE: This switch is normally left in the "ON" position. 1 System Power Control: When the Main Power Switch 0 is "ON," press this button to turn on the AVR; press it again to turn the unit off (to Standby). Note that the Power Indicator 2 will turn blue when the unit is on. 2 Power Indicator: This LED will be illuminated in orange when the unit is in the Standby mode to signal that the unit is ready to be turned on. When the unit is in operation, the indicator will turn blue. 3 Headphone Jack: This jack may be used to listen to the AVR's output through a pair of headphones. Be certain that the headphones have a standard 6.3 mm stereo phone plug. Note that the speakers will automatically be turned off when the headphones are connected.

4 Digital Optical 3 Input: Connect the optical digital audio output of an audio or video product to this jack. When the Input is not in use, be certain to keep the plastic cap installed to avoid dust contamination that might degrade future performance. 5 Speaker/Channel Input Indicators: These indicators are multipurpose, indicating either the speaker type selected for each channel or the incoming data-signal configuration. The left, center, right, right surround and left surround speaker indicators are composed of three boxes, while the subwoofer is a single box. The center box lights when a "Small" speaker is selected, and the two outer boxes light when "Large" speakers are selected.

When none of the boxes are lit for the center, surround or subwoofer channels, no speaker has been selected for that position. (See page 16 for more information on configuring speakers.) The letters inside each of the center boxes display active input channels. For standard analog inputs, only the L and R will light, indicating a stereo input. When a digital source is playing, the indicators will light to display the channels being received at the digital input.

When the letters flash, the digital input has been interrupted. (See page 15 for more information on the Channel Indicators). 8 FRONT PANEL CONTROLS Front Panel Controls 6 Surround Mode Group Selector: Press this button to select the top-level group of surround modes. Each press of the button will select a major mode grouping in the following order: Dolby Modes DTS Digital Modes DSP Modes Stereo Modes Logic 7 Modes Once the button is pressed so that the name of the desired surround mode group appears in the Lower Display Line F, press the Surround Mode Selector C to cycle through the individual modes available. For example, press this button to select Dolby modes, and then press the Surround Mode Selector C to choose from the various mode options. 7 Tuning Selector: Press the left side of the button to tune lower frequency stations and the right side of the button to tune higher frequency stations. When a station with a strong signal is reached, MANUAL TUNED or AUTO TUNED will appear in the Main Information Display F (see page 23 for more information on tuning stations). 8 Tuner Band Selector: Pressing this button will automatically switch the AVR to the Tuner mode. Pressing it again will switch between the AM and FM frequency bands, holding it pressed for some seconds will switch between stereo and mono receiving and between automatic and manual tuning mode (See page 23 for more information on the tuner). 9 Preset Stations Selector: Press this button to scroll up or down through the list of stations that have been entered into the preset memory.

(See page 23 for more information on tuner programming.) A Input Source Selector: Press this button to change the input by scrolling through the list of input sources. B RDS Select Button: Press this button to display the various messages that are part of the RDS data system of the AVR's tuner. (See page 24 for more information on RDS). C Surround Mode Selector: Press this button to select from among the available surround mode options for the mode group selected. The specific modes will vary based on the number of speakers available, the mode group and if the input source is digital or analog. For example, press the Surround Mode Group Selector 6 to select a mode grouping such as Dolby or Logic 7, and then press this button to see the mode choices available. For more information on mode selection, see page 9. D Surround Mode Indicators: Indicator will illuminate in front of the surround mode that is currently in use. E Remote Sensor Window: The sensor behind this window receives infrared signals from the remote control.

Aim the remote at this area and do not block or cover it unless an external remote sensor is installed. F Main Information Display: This display delivers messages and status indications to help you operate the receiver.



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G Digital Coax 3 Input: This jack is normally used for connection to the output of portable digital audio devices, video game consoles or other products that have a coax digital jack. H 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. I Volume Control: Turn this knob clockwise to increase the volume, counterclockwise to decrease the volume.

If the AVR is muted, adjusting volume control will automatically release the unit from the silenced condition. J Input indicators: Indicator will illuminate in front of the input that is currently being used as the source for the AVR. ENGLISH FRONT PANEL CONTROLS 9 Rear Panel Connections 9 A B C D E F G H e > < , c I J K L M N Video 1 Video Outputs Video 2 Audio Inputs Video 2 Video Inputs Optical Digital Inputs Video 1 Video Inputs 6-Channel Direct Inputs Coaxial Digital Inputs Subwoofer Output Video Monitor Outputs Front/Center Speaker Outputs Surround Speaker Outputs Component Video Outputs Video 1 Component Video Inputs AC Power Cord DVD Video Inputs 0 Tape Inputs: Connect these jacks to the PLAY/OUT jacks of an audio recorder. 1 Tape Outputs: Connect these jacks to the RECORD/INPUT jacks of an audio recorder. 2 Video 1 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a TV or other video source.

3 AM Antenna: Connect the AM loop antenna supplied with the receiver to these terminals. If an external AM antenna is used, make connections to the AM and GND terminals in accordance with the instructions supplied with the antenna. 4 Video 1 Audio Outputs: Connect these jacks to the RECORD/INPUT audio jacks on a VCR or any other Audio recorder. 5 DVD Audio Inputs: Connect these jacks to the analog audio jacks on a DVD or other video source. 6 FM Antenna: Connect the supplied indoor or an optional external FM antenna to this terminal. 7 CD Inputs: Connect these jacks to the analog output of a compact disc player or CD changer. 8 Video 2 Component Video Inputs: Connect the Y/Pr/Pb component video outputs of an HDTV Set-top converter, satellite receiver, or other video source device with component video outputs to these jacks. 9 Coaxial Digital Inputs: Connect the coax digital output from a DVD player, HDTV receiver, LD player, MD player or CD player to these jacks. The signal may be either a Dolby Digital signal, DTS signal or a standard PCM digital source. Do not connect the RF digital output of an LD player to these jacks.

A Subwoofer Output: Connect this jack to the line-level input of a powered subwoofer. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input. 10 REAR PANEL CONNECTIONS Rear Panel Connections B Video Monitor Outputs: Connect these jacks to the composite and/or S-Video input of a TV monitor or video projector to view the output of any video source selected by the receiver's video switcher. C Front/Center Speaker Outputs: Connect these outputs to the matching + or - terminals on your front/center speakers. When making speaker connections, always make certain to maintain correct polarity by connecting the red (+) terminals on the AVR to the red (+) terminals on the speaker and the black (-) terminals on the AVR to the black (-) terminals on the speakers. (See page 12 for more information on speaker polarity.) D Surround Speaker Outputs: Connect these outputs to the matching + or - terminals on your left and right surround speakers. When making speaker connections always make certain to maintain correct polarity by connecting the red (+) terminals on the AVR to the red (+) terminals on the speakers and the black (-) terminals on the AVR to the black (-) terminals on the speakers. See page 12 for more information on speaker polarity. E Monitor Component Video Outputs: Connect these outputs to the component video inputs of a video projector or monitor.

When a source connected to one of the two Component Video Inputs 8F is selected the signal will be sent to these jacks. F Video 1 Component Video Inputs: Connect the Y/Pr/Pb component video outputs of a DVD player to these jacks. Note: All component inputs/outputs can be used for RGB signals too, in the same way as described for the Y/Pr/Pb signals, then connected to the jacks with the corresponding color. RGB connection is not possible if the source outputs a separate sync signal (see page 13). G AC Power Cord: Connect the AC plug to an unswitched AC wall output.

H DVD Video Inputs: Connect these jacks to the composite or S-Video output jacks on a DVD player or other video source. I Video 1 Video Outputs: Connect these jacks to the RECORD/INPUT composite or S-Video jack on a VCR. J Video 2 Audio Inputs: Connect these jacks to the PLAY/OUT audio jacks on a VCR or other video source. K Video 2 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a second VCR or other video source. L Optical Digital Inputs: Connect the optical digital output from a DVD player, HDTV receiver, LD player, MD player or CD player to these jacks.

The signal may be either a Dolby Digital signal, a DTS signal or a standard PCM digital source. M Video 1 Video Inputs: Connect these jacks to the PLAY/OUT composite or S-Video jacks on a TV or other video source. Note: Either the Video or S-Video output of any S-Video source must be connected to the AVR, not both in parallel, otherwise the video may be disturbed or its performance be adversely effected. N 6-Channel Direct Inputs: These jacks are used for connection to source devices such as DVD-Audio or SACD players with discrete analog outputs. ENGLISH REAR PANEL CONNECTIONS 11 Installation and Connections After unpacking the unit, and placing it on a solid surface capable of supporting its weight, you will need to make the connections to your audio and video equipment. NOTE: While most speaker manufacturers adhere to an industry convention of using black terminals for negative and red ones for positive, some manufacturers may vary from this configuration. To assure proper phase and optimal performance, consult the identification plate on your speaker or the speaker's manual to verify polarity. If you do not know the polarity of your speaker, ask your dealer for advice before proceeding, or consult the speaker's manufacturer. We also recommend that the length of cable used to connect speaker pairs be identical. For example, use the same length piece of cable to connect the front-left and front-right or surround-left and surround-right speakers, even if the speakers are a different distance from the AVR.

7. Connections to a subwoofer are normally made via a line level audio connection from the Subwoofer Output A to the line-level input of a subwoofer with a built-in amplifier.



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When a passive subwoofer is used, the connection first goes to a power amplifier, which will be connected to one or more subwoofer speakers. If you are using a powered subwoofer that does not have line-level input connections, follow the instructions furnished with the speaker for connection information.

Note: Speaker sets with two front satellites and a passive subwoofer must be connected to the front speaker outputs C only rather than to the Subwoofer Output A. 8. If an external multi-channel audio source with 5.1 outputs such as an external digital processor/decoder, DVD-Audio or SACD player is used, connect the outputs of that device to the 6-Channel Direct Inputs N. Audio Equipment Connections We recommend that you use high-quality interconnect cables when making connections to source equipment and recorders to preserve the integrity of the signals. When making connections to audio source equipment or speakers it is always a good practice to unplug the unit from the AC wall outlet.

This prevents any possibility of accidentally sending audio or transient signals to the speakers that may damage them. Important Note : In order to clearly identify all connectors and simplify installation, as per the new EIA/CEA-863 standard, all connections are colour coded as follows: For Speakers and Audio In/Outputs: White (Left, speakers front) and Red (Right, speakers front). For Speakers: Green (Center), Blue (Left Surround) and Grey (Right Surround). For Audio Output: Purple (Subwoofer). For Composite Video In/Outputs: Yellow.

For Digital Audio In/Outputs: Orange. 1. Connect the analog output of a CD player to the CD inputs 7. NOTE: When the CD player has both fixed and variable audio outputs it is best to use the fixed output unless you find that the input to the receiver is so low that the sound is noisy, or so high that the signal is distorted. 2.

Connect the analog Play/Out jacks of a cassette deck, MD, CD-R or other audio recorder to the Tape Input jacks 0. Connect the analog Record/In jacks on the recorder to the Tape Output jacks 1 on the AVR. 3. Connect the output of any digital sources to the appropriate input connections on the AVR rear panel.

Note that the Optical and Coaxial digital inputs L9 4G may be used with a Dolby Digital or DTS source or the output of a conventional CD, MD or LD player's PCM (S/P-DIF) output. 4. Assemble the AM Loop Antenna supplied with the unit as shown below. Connect it to the AM and GND screw terminals 3. 5. Connect the supplied FM antenna to the FM (75 ohm) connection 6.

The FM antenna may be an external roof antenna, an inside powered or wire lead antenna or a connection from a cable system. Note that if the antenna or connection uses 300-ohm twin-lead cable, you must use a 300-ohm-to-75-ohm adapter to make the connection. 6. Connect the front, center and surround speaker outputs CD to the respective speakers. To assure that all the audio signals are carried to your speakers without loss of clarity or resolution, we suggest that you use high-quality speaker cable. Many brands of cable are available and the choice of cable may be influenced by the distance between your speakers and the receiver, the type of speakers you use, personal preferences and other factors. Your dealer or installer is a valuable resource to consult in selecting the proper cable. Regardless of the brand of cable selected, we recommend that you use a cable constructed of fine, multistrand copper with an area greater than 2 mm². Cable with an area of 1.5 mm² may be used for short runs of less than 4 m.

We do not recommend that you use cables with an area less than 1mm² due to the power loss and degradation in performance that will occur. When connecting wires to the speakers, be certain to observe proper polarity. Remember to connect the "negative" or "black" wire to the same terminal on both the receiver and the speaker. Similarly, the "positive" or "red" wire should be connected to like terminals on the AVR and speaker. 12 INSTALLATION AND CONNECTIONS Installation and Connections Video Equipment Connections Video equipment is connected in the same manner as audio components.

Again, the use of highquality interconnect cables is recommended to preserve signal quality. To ensure best video performance S-Video sources should be connected to the AVR only with their S-Video In/Outputs, not with their composite video connectors too. 1. Connect a VCR's audio and video Play/Out jacks to the Video 2 In jacks JK on the rear panel. The Audio and Video Record/In jacks on the VCR should be connected to the Video 1 Out jacks 4 I on the AVR. 2. Although any video device may be connected to these jacks, we recommend connecting your TV to the Video 1 Audio/Video Input Jacks 2 M so that you may take advantage of the fact that the remote control is preprogrammed with TV product codes for the Video 1 device. For the same reason, we recommend connecting your video recorder, cable TV converter or satellite receiver to the Video 2 Audio/Video Input Jacks JK. 3. Connect the analog audio and video outputs of a DVD to the DVD jacks 5 C. 4. Connect the digital audio outputs of a CD, MD or DVD player, satellite receiver, cable box or HDTV converter to the appropriate Optical or Coaxial Digital Inputs 9LAG. Remember that the DVD source defaults to the Coaxial 1 Digital Input L. All other sources default to their analog inputs, although any source may be assigned to any digital audio input on the receiver. 5.

Connect the Composite and S-Video (if S-Video device is in use) Monitor Output B jacks on the receiver to the composite and S-Video input of your television monitor or video projector. 6. If your DVD player and monitor both have component video connections, connect the component outputs of the DVD player to the Video 1 Component Video Inputs F. Note that even when component video connections are used the audio connections must still be made to either the analog DVD Audio Inputs 5 or any of the Coaxial or Optical Digital Input jacks 9L. 7. If another component video device is available, connect it to the Video 2 Component Video Input jacks 8. The audio connections for this device should be made to either the Video 2 Input jacks J or any of the Coaxial or Optical Digital Input jacks 9L. 8. If the component video inputs are used, connect the Component Video Output E to the component video inputs of your TV, projector or display device. 9.

If you have a camcorder, video game or other audio/video device that is connected to the AVR on a temporary, rather than permanent basis, connect the audio, video and digital audio outputs of that device to the Front Panel Inputs 4GH. A device connected to the Video 3 jacks H is selected as the Video 3 input, and connected to the digital jacks 4G it is selected as "Optical 3" or "Coaxial 3" input. (See page 16 for more information on input configuration.) Video Connection Notes: · Y/Pr/Pb Component, RGB (see page 14), or Composite video signals may only be viewed in their native formats and will not be converted to the other formats.



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All component inputs/outputs can be used for RGB signals too, in the same way as described for the Y/Pr/Pb signals, then connected to the jacks with the corresponding color.

But this is only correct as long as only the three RGB video signals are output by the video source, with a sync signal in the "G" signal only, without any sync signal output separately by the source. ENGLISH INSTALLATION AND CONNECTIONS 13 System Configuration Once the speakers have been placed in the room and connected, the remaining steps are to program the system configuration memories. With the AVR two kind of memories are used, those associated individually with the input selected, e.g. surround modes, and others working independently from any input selected like speaker output levels, or delay times used by the surround sound processor.

Settings to be Made With Each Input Used Pb Instructions for users on removal and disposal of used batteries. Specification of included battery types. These symbols shown on the product, the packaging or in the manual or separate information sheet mean that the product itself, as well as the batteries included or built into the product, should never be thrown away with general household waste. Take them to applicable collection points, where proper treatment, recycling and recovery takes place, in accordance with national or local legislation, or European Directives 2002/96/EC and 2006/66/EC. Correct handling of the product and batteries to be disposed helps saving resources and prevents possible negative effects on the environment or human health. The batteries included with your equipment may be Alkaline, Carbon Zink/Manganese or Lithium (button cells) type. All types should be disposed of according to the above instructions. To remove the batteries from your equipment or remote control, reverse the procedure described for inserting batteries in the Owners Manual. The AVR features an advanced memory system that enables you to establish different settings for the speaker configuration, digital input, surround mode, delay times and output levels for each input source. This flexibility enables you to custom tailor the way in which you listen to each source and have the AVR memorize them.

This means, for example, that you may associate different surround modes and analog or digital inputs with different sources, or set different speaker configurations with the resultant changes to the bass management system or the use of the Center speaker. Once these settings are made, they will automatically be recalled whenever you select an input. The default settings for the AVR, as it is shipped from the factory, have all inputs set for an analog source (except for the DVD input, which has the Coaxial Digital Input 1 9 as the default), with Logic 7 Music as the surround mode, all speaker positions set to "small", and a subwoofer connected. Before using the unit, you will probably want to change these settings for most inputs so that they are properly configured to reflect the use of digital or analog inputs, the type of speakers installed and the surround mode associated with the input. Input Setup The first step in configuring the AVR is to select an input. This may be done by pressing the front panel Input Source Selector A until the desired input's name appears in the Main Information Display F, and Indicator will illuminate next to the input's name in the front panel Input Indicators J. The input may also be selected by pressing the appropriate Input Selector on the remote control 5g. The second step is to associate one of the digital inputs with the selected input source (if this is needed, otherwise the selected analog input will remain). Press the Digital Input Select button Y on the remote. Within five seconds, make your input selection using the K/L buttons Z on the remote until the desired digital or analog input is shown in the Main Information Display F.

Then press the OK button A to enter the new digital input assignment. After the setting has been made with one input, repeat as described above with all inputs in use. The digital input associated with the input selected can also be changed at any time later and the AVR's memory system will keep the settings until they are changed again. First Turn On You are now ready to power up the AVR to begin these final adjustments. 1.

Plug the Power Cable G into an unswitched AC outlet. 2. Press the Main Power Switch 0 in until it latches and the word "OFF" on the top of the switch disappears inside the front panel. Note that the Power Indicator 2 will turn orange, indicating that the unit is in the Standby mode. 3. Remove the protective plastic film from the front-panel lens. If left in place, the film may affect the performance of your remote control. 4. Install the three supplied AAA batteries in the remote as shown. Be certain to follow the (+) and (-) polarity indicators that are on the bottom of the battery compartment. 5. Turn the AVR on either by pressing the System Power Control 1 or the Input Source Selector A on the front panel, or via the remote by pressing the AVR Selector h or any of the Input Selectors 5 on the remote. The Power Indicator 2 will turn blue to confirm that the unit is on, and the Main Information Display F will also light up. NOTE: After pressing one of the Input Selector buttons 5 to turn the unit on, press the AVR Selector h to have the remote control the AVR functions. For products with a built-in battery that lasts for the lifetime of the product, removal may not be possible for the user.

In this case, recycling or recovery centers handle the dismantling of the product and the removal of the battery. If, for any reason, it becomes necessary to replace such a battery, this procedure must be performed by authorized service centers. 14 SYSTEM CONFIGURATION System Configuration Speaker Setup This setup tells the AVR which type of speakers are in use. This is important as it adjusts the settings that determine which speakers receive low frequency (bass) information and whether a Center speaker should be used or not, separately for each input used. For each of these settings use the LARGE setting if the speakers for a particular position are traditional full-range loudspeakers that are capable of reproducing sounds below 100Hz. Use the SMALL setting for smaller, frequency-limited satellite speakers that do not reproduce sounds below 100Hz. Note that when "small" front (left and right) speakers are used, a subwoofer is required to reproduce low frequency sounds. If you are in doubt as to which category describes your speakers, consult the specifications in the speakers' owner's manual, or ask your dealer. With the AVR turned on, follow these steps to configure the speakers: 1. Press the Speaker button 9 on the remote.

The words FRONT SPEAKER will appear in the Main Information Display F. 2. Press the OK button A. 3. Press the K/L buttons Z on the remote to select FRONT LARGE or FRONT SMALL, matching the type of speakers you have at the left-front and right-front positions, as described by the definitions shown in preceding section.



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When **SMALL** is selected, low frequency front channel sounds will be sent only to the subwoofer output. Note that if you choose this option and there is no subwoofer connected, you will not hear any low frequency sounds from the front channels. This setting is not available with stereo mode to ensure purest sound by bypassing the crossovers of the DSP's. When **LARGE** is selected, a full-range output will be sent to the front left and front right outputs. Depending on the subwoofer configuration (see below), the front left and right bass information may also be directed to a subwoofer.

Important Note: When a speaker set with two front satellites and a passive subwoofer is used, connected to the front speaker outputs C, the fronts must be set for **LARGE**. 4. When you have completed your selection for the front channels, press the OK button A, and then press the K/L buttons Z on the remote to change the display to **CENTER SPEAKER**. K/L 5. Press the OK button A again, and use the buttons Z on the remote to select the option that best describes your system based on the Center speaker definitions shown in preceding section. When **SMALL** is selected, low frequency center channel sounds will be sent to the Fronts, if they are set for **LARGE** and Sub is turned off. When Sub is on, low frequency center channel sounds will be sent to the subwoofer only. When **NONE** is selected, surround sound information will be split between the front-left and front-right outputs. Note that for optimal performance when no surround speakers are in use, the Dolby 3 Stereo mode should be used instead of Dolby Pro Logic. 8.

When you have completed your selection for the surround channel, press the OK button A, and then press the K/L buttons Z on the remote to change the display to **S-W SPEAKER**. When **LARGE** is selected, a full-range output will be sent to the center speaker output, and with analog and digital surround modes (except with the Pro Logic II Music mode) **NO** center channel signal will be sent to the subwoofer output. When **NONE** is selected, no signal will be sent to the center channel output. The receiver will operate in a "phantom" center channel mode and center channel information will be sent to the left and right front channel outputs and its bass will be sent to the subwoofer output too as long as **SUB L/R+LFE** is selected in the **SUBWOOFER** line in this menu (see below).

This mode is needed if no Center speaker is used. Note that for the use of Logic 7C surround mode a Center speaker is needed, but Logic 7M works well without a Center too. 6. When you have completed your selection for the center channel, press the OK button A, and then press the K/L buttons Z on the remote to change the display to **SURR SPEAKER**. 9. Press the OK button A, and then press the K/L buttons Z on the remote to select the option that best describes your Subwoofer system.

The choices available for the subwoofer position will depend on the settings for the other speakers, particularly the front left/right positions. If the front left/right speakers are set to **SMALL**, the subwoofer will automatically be set to **SUB**, which is the "on" position. If the front left/right speakers are set to **LARGE**, three options are available: · If no subwoofer is connected to the AVR, press the arrow buttons Z so that **SUB NONE** appears in the display. When this option is selected, all bass information will be routed to the front left/right "main" speakers. · If a subwoofer is connected to the AVR, you have the option to have the front left/right "main" speakers reproduce bass frequencies at all times, and have the subwoofer operate only when the AVR is being used with a digital source that contains a dedicated Low Frequency Effects, or LFE soundtrack.

This allows you to use both your main and subwoofer speakers to take advantage of the special bass created for certain movies. To select that option press the arrow buttons Z so that **SUB LFE** appears in the display. · If a subwoofer is connected and you wish to use it for bass reproduction in conjunction with the main front left/right speakers, regardless of the type of program source or surround mode you are listening to, press the arrow buttons Z so that **SUB L/R+LFE** appears in the display. When this option is selected, a "complete" feed will be sent to the front left/right "main" speakers, and the subwoofer will receive the front left and right bass frequencies under the crossover frequency 80 Hz, additionally to the LFE soundtrack (see above). 7.

Press the OK button A again, and then use the K/L buttons Z on the remote to select the option that best describes your system based on the Surround speaker definitions shown in preceding section. When **SMALL** is selected, with all digital surround modes low frequency surround channel sounds will be sent to the Fronts, when Sub is turned off, or to the subwoofer output when Sub is on. With the analog surround modes the rear bass feed depends on the mode selected and the setting of the sub and front speakers. When **LARGE** is selected, a full-range output will be sent to the surround channel outputs (with all analog and digital surround modes), and, except with Hall and Theater modes, **NO** surround channel bass will be sent to the subwoofer output. **SYSTEM CONFIGURATION 15 ENGLISH** System Configuration 10. When all speaker selections have been made for the input selected, press the OK button A twice or simply wait for three seconds until the display returns to the normal mode. To assist in making these settings, the icons in the Speaker/Channel Input Indicators 5 will change as the speaker type is selected at each position. When only the inner icon box is lit, the speaker is set for "small. When the inner " box and the two outer boxes with circles inside them are lit, the speaker is set for "large." When no indicator appears at a speaker location, that position is set for "none" or "no" speaker.

As an example, in the Figure below, the left front and right front speakers are set for "large," the center, left surround and right surround speakers are set for small, and a subwoofer is set. Note that Dolby Digital and DTS will only appear as choices when a digital input has been selected. After the surround mode setting has been made with the current input, repeat the setting with all inputs you will use. The surround mode can also be changed at any time later, and the AVR's memory system will keep the settings for the input selected, until they are changed again. Stereo-Digital Mode When the Stereo-Direct (Bypass) mode is in use a full range signal is always sent to the front left/right speakers. By its nature, that option does not pass the signal through the AVR's digital signal processing, creating the requirement for full-range speakers. If your front speakers are bandwidth limited, "satellite"speakers, we recommend that you do **NOT** use the Bypass mode, but rather use the DSP **SURROUND OFF** mode for stereo listening.



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To listen to programs in the two-channel stereo mode while taking advantage of the bass management system, press the Stereo Mode Selector J until SURROUND OFF appears in the Main Information Display F and the DSP and SURR. OFF Surround Mode Indicators D both light up. When only the SURR.

OFF Surround Mode Indicators D is lit you are in the Stereo-Direct (Bypass) mode. When this mode is in use, the front left/right speakers and subwoofer may be configured to meet the requirements of your specific speakers using the steps shown in the Speaker Setup section. Delay Settings Only for the Dolby or DTS modes, you will need to adjust the delay time setting. Note that the delay time is not adjustable for any other modes. Due to the different distances between the listening position for the front channel speakers and the surround speakers, the amount of time it takes for sound to reach your ears from the front or surround speakers is different.

You may compensate for this difference through the use of the delay settings to adjust the timing for the specific speaker placement and acoustic conditions in your listening room or home theater. The factory setting is appropriate for most rooms, but some installations create an uncommon distance between the front and surround speakers that may cause the arrival of front channel sounds to become disconnected from surround channel sounds. Configuring the Surround Off (Stereo) Modes For superior reproduction of two-channel program materials, the AVR offers two Stereo modes: an analog Stereo-Direct mode that bypasses the digital signal processing circuitry for a completely analog signal path that preserves the purity of the original signal, and a digital mode that is capable of providing bass management for optimal distribution of the low frequencies between smaller speakers and a subwoofer. Stereo-Direct (Bypass) Mode When the analog Stereo-Direct mode is selected by pressing the Stereo Mode Selector J until SURROUND OFF appears in the Main Information Display F and the Surround Mode Indicator D for Surround Off is lit, the AVR will pass the analog source material directly through to the front left and right speakers, bypassing the digital processing circuitry. In this mode, the front left and right speakers will automatically be configured as LARGE; it is not possible to configure these speakers as SMALL.

L SL C R LFE SR Surround Setup Once the speaker setup has been completed, the next setup step is to set the surround mode you wish to use with each input. Since surround modes are a matter of personal taste, feel free to select any mode you wish you may change it later. To make it easier to establish the initial parameters for the AVR, it is best to leave the default setting of Logic 7 Music mode for most analog inputs and Dolby Digital for inputs connected to digital sources. In the case of inputs such as a CD Player, Tape Deck or Tuner, you may wish to set the mode to Stereo, if that is your preferred listening mode for standard stereo sources, where it is unlikely that surround encoded material will be used. To set the surround mode you wish to use with the input selected, press the Surround Mode Selector button 6 on the front or cZ on the remote until the desired surround mode's name appears in the Main Information Display F. As the modes are changed, Indicator will illuminate next to the mode names in the Surround Mode Indicators D on the front panel. When the AVR is in the Stereo Bypass mode you may still configure the subwoofer output so that it is either turned off, with a full-range signal going to the front left/right speakers, or you may configure it so that the subwoofer feed is activated. The factory default setting is to have the subwoofer turned off for this mode, but you may change that setting by following these steps: 1. Press the Speaker Button 9. 2.

Press the OK Button A to activate the configuration menu. 3. Press the K/L Buttons Z on the remote to select the desired option. SUB NONE turns off the feed to the subwoofer, while SUB <L+R> turns it on. 4. When the desired setting has been entered, press the OK Button A to return to normal operation. 16 SYSTEM CONFIGURATION System Configuration To resynchronize the front, center and surround channels, follow these steps: 1. Measure the distance from the listening/ viewing position to the front speakers in meters. 2. Measure the distance from the listening/ viewing position to the surround speakers. 3. Press the Delay Button B. 4. When FRONT L DELAY appears in the Main Information Display F press the OK Button A. 5.

Press the Buttons Z on the remote to enter the distance from the front left/right speakers to your listening position. Press the OK Button A when this is complete. K/L Next press the Night button O on the remote. When the button is pressed, the words D-RANGE (Dynamic Range) followed by the current setting (MID, MAX, OFF) will appear in the Main Information Display F. Press the K/L buttons Z within five seconds to select the desired setting: OFF: When OFF is shown in the display, the Night mode will not function.

MID: When MID is shown in the display, a mild compression will be applied. Before beginning the output level adjustment process, make certain that all speaker connections have been properly made. The system volume should be turned down at first. For the easiest set-up, follow these steps while seated in the listening position that will be used most often: 1. Make certain that all speaker positions have been properly configured for their "large" or "small" settings (as outlined above) and turn off the OSD system if it is in use. 2. Adjust the volume so that it is at -15, as shown in the on-screen display or Main Information Display F. To adjust and calibrate the output levels, follow these steps. For accurate calibration, it is a good idea to make these adjustments while seated in your favorite listening position. As the adjustment must be made for each surround mode, it is best to select any input associated with any Dolby Pro Logic II mode, make the adjustment for that surround mode, then step through all inputs you're using (and thus through all surround modes associated with the inputs) and repeat the adjustment when any surround mode appears that has not yet been adjusted.

1. Select any input associated with any Dolby Pro Logic II surround mode by pressing the Input Source Selector A 5 until the Pro Logic II Surround Mode Indicator D on the frontdisplay lights up. 2. Press and hold the Tone button T on the remote for more than 3 seconds. The words T-T F L ODB will appear in the Main Information Display F. 3. The test noise will immediately begin to circulate in the speakers in a clockwise rotation, pausing at each position for two seconds. As the test noise rotates the speaker positions FL, C, FR, SR, SL (Front Left, Center, Front Right, Surround Right, Surround Left) will be shown in the Main Information Display F. As an added assist, while the test noise is circulating, the proper channel position will also be indicated in the Speaker/Channel Indicators 5 by a blinking letter within the correct channel.



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Turn up the volume now until you can hear the noise clearly.

MAX: When MAX is shown in the display, a more severe compression algorithm will be applied. When you want to use the Night mode feature, we recommend that you select the MID setting as a starting point and change to the MAX setting later, if desired. Output Level Adjustment Output level adjustment is a key part of the configuration process for any surround sound product. It is particularly important for a Dolby Digital receiver such as the AVR, as correct outputs will ensure that you hear sound tracks with the proper directionality and intensity. NOTE: Listeners are often confused about the operation of the surround channels.

While some assume that sound should always be coming from each speaker, most of the time there will be little or no sound in the surround channels. This is because they are only used when a movie director or sound mixer specifically places sound there to create ambiance, a special effect or to continue action from the front of the room to the rear. When the output levels are properly set it is normal for surround speakers to operate only occasionally. Artificially increasing the volume to the rear speakers may destroy the illusion of an enveloping sound field that duplicates the way you hear sound in a movie theater or concert hall. **IMPORTANT NOTE:** The output level can be adjusted for each digital and analog surround mode separately.

This allows you to compensate for level differences between speakers, that may also vary with the surround mode selected, or to increase or decrease the level of certain speakers intentionally, depending on the surround mode selected. Note that adjustments made for any surround mode are effective with all inputs associated with that surround mode. 6. Press the K/L Buttons Z on the remote so that CENTER DELAY appears in the Main Information Display F and press the OK Button A (After CENTER DELAY, you will see FRONT R DELAY). 7. Press the the K/L Buttons Z on the remote to enter the distance from the center speaker your listening position. Press the OK Button A when this is complete. 8. Press the K/L Buttons Z on the remote so that SURR DELAY R and after that SURR DELAY L appears in the Lower Display Line and press the OK Button A. 9.

Press the the K/L Buttons Z on the remote to enter the distance from the surround speakers to your listening position. Press the OK Button A when this is complete. 10. When all adjustments have been made, the unit will return to normal operation in five seconds. **Night Mode Settings** The Night mode is a feature of Dolby Digital that uses special processing to preserve the dynamic range and full intelligibility of a movie sound track while reducing the peak level. This prevents abruptly loud transitions from disturbing others, without reducing the sonic impact of a digital source. Note that the Night mode is only available when the Dolby Digital surround mode is selected. To adjust the Night mode setting press the Input Source Selector A on the front or 5 on the remote and select an input that is associated with a digital input and the Dolby Digital surround mode. **SYSTEM CONFIGURATION 17 ENGLISH** System Configuration **IMPORTANT NOTE:** Because this test noise will have a much lower level than normal music, the volume must be lowered after the adjustment for all channels is made, BEFORE you turn the test tone off. NOTE: This is a good time to verify that the speakers have been properly connected.

As the test noise circulates, listen to make certain that the sound comes from the speaker position shown in the Main Information Display. If the sound from a speaker location does NOT match the position indicated in the display, turn the AVR off using the Main Power Switch 0 and check the speaker wiring to make certain that each speaker is connected to the correct output terminal. After checking for speaker placement, let the test noise circulate again, and listen to see which channels sound louder than the others. Using the front left speaker as a reference, press the K/L buttons Z on the remote to bring all speakers to the same volume level. Note that when one of the K/L buttons is pushed, the test noise circulation will pause on the channel being adjusted to give you time to make the adjustment.

When you release the button, the circulation will resume after five seconds. Continue to adjust the individual speakers until they all have the same volume. Note that adjustments should be made with the K/L buttons Z on the remote only, NOT the main volume controls. When all channels have the same output level, turn the Volume 17 down to about 40dB, otherwise the listening level may be too high as soon as the source's music starts to play. Afterwards press the Tone Button T button again to turn the test tone off and complete the process.

IMPORTANT NOTE: The Output level adjustment made will be effective for the surround mode currently selected, also when other inputs are selected using the same surround mode. To adjust the output level with all other surround modes used, step through all inputs you're using by pressing the Source Selector buttons A on the front panel or the appropriate Input Selectors 5 on the remote. When the indicator for any surround mode for which the level adjustment has not yet been made lights in the Main Information Display F or its Indicator will illuminate in the Surround Mode Indicators field D, repeat the level adjustment described above. This will also allow you to compensate level differences between speakers, that may be different with each surround mode, or to increase or decrease the level of certain speakers intentionally, depending on the surround mode selected. Once the settings outlined on the previous pages have been made, the AVR is ready for operation. While there are some additional settings to be made, these are best done after you have had an opportunity to listen to a variety of sources and different kinds of program material. These advanced settings are described on page 21 of this manual. In addition, any of the settings made in the initial configuration of the unit may be changed at any time. As you add new or different sources or speakers, or if you wish to change a setting to better reflect your listening taste, simply follow the instructions for changing the settings for that parameter as shown above. Note that any settings changed at any time, will be stored in memory in the AVR, also if it's turned off completely, unless it will be reset (see page 34).

Having completed the setup and configuration process for your AVR, you are about to experience the finest in music and home theater listening. Enjoy! 18 **SYSTEM CONFIGURATION** Operation Basic Operation Once you have completed the setup and configuration of the AVR, it is simple to operate and enjoy. The following instructions should be followed for you to maximize your enjoyment of your new receiver: Turning the AVR On or Off · When using the AVR for the first time, you must press the Main Power Switch 0 on the front panel to turn the unit on.



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