



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO HT-R508. You'll find the answers to all your questions on the ONKYO HT-R508 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ONKYO HT-R508  
User guide ONKYO HT-R508  
Operating instructions ONKYO HT-R508  
Instructions for use ONKYO HT-R508  
Instruction manual ONKYO HT-R508

**ONKYO®**

AV Receiver

***HT-R508***

Instruction Manual

Thank you for purchasing an Onkyo AV Receiver.  
Please read this manual thoroughly before making  
connections and plugging in the unit.  
Following the instructions in this manual will enable  
you to obtain optimum performance and listening  
enjoyment from your new AV Receiver.  
Please retain this manual for future reference.

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**Manual abstract:**

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61 **En WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN AVIS RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.** The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. Important Safety Instructions 1. 2. 3. 4.

5. 6. 7. 8. Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with dry cloth.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 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 are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Only use attachments/accessories specified by the manufacturer.

Use only with the cart, stand, PORTABLE CART WARNING tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over. S3125A Unplug this apparatus during lightning storms or when unused for long periods of time. 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. **Damage Requiring Service** Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions: A. When the power-supply cord or plug is damaged, B. If liquid has been spilled, or objects have fallen into the apparatus, C. If the apparatus has been exposed to rain or water, D.

If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation, E. If the apparatus has been dropped or damaged in any way, and F. When the apparatus exhibits a distinct change in performance this indicates a need for service. 16. **Object and Liquid Entry** Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus. Don't put candles or other burning objects on top of this unit. 17. **Batteries** Always consider the environmental issues and follow local regulations when disposing of batteries.

18. If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation. Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape. 9. 10. 11. 12. 13. 14.

2 **Precautions** 1. **Recording Copyright**--Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder. 2. **AC Fuse**--The AC fuse inside the unit is not userserviceable. If you cannot turn on the unit, contact your Onkyo dealer.

3. **Care**--Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering.

4. **Power WARNING BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.** AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230240 V, 50 Hz or AC 120 V, 60 Hz). The power cord plug is used to disconnect this unit from the AC power source. Make sure that the plug is readily operable (easily accessible) at all times. Pressing the [STANDBY/ON] button to select Standby mode does not fully shutdown the unit. If you do not intend to use the unit for an extended period, remove the power cord from the AC outlet.

5. **Never Touch this Unit with Wet Hands**--Never handle this unit or its power cord while your hands are wet or damp. If water or any other liquid gets inside this unit, have it checked by your Onkyo dealer. 6. **Handling Notes** · If you need to transport this unit, use the original packaging to pack it how it was when you originally bought it. · Do not leave rubber or plastic items on this unit for a long time, because they may leave marks on the case. · This unit's top and

rear panels may get warm after prolonged use. This is normal. · If you do not use this unit for a long time, it may not work properly the next time you turn it on, so be sure to use it occasionally. For British models Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

**IMPORTANT** The wires in the mains lead are coloured in accordance with the following code: Blue: Neutral Brown: Live As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.



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The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. **IMPORTANT** The plug is fitted with an appropriate fuse. If the fuse needs to be replaced, the replacement fuse must approved by ASTA or BSI to BS1362 and have the same ampere rating as that indicated on the plug. Check for the ASTA mark or the BSI mark on the body of the fuse.

If the power cord's plug is not suitable for your socket outlets, cut it off and fit a suitable plug. Fit a suitable fuse in the plug. For European Models Declaration of Conformity We, ONKYO EUROPE ELECTRONICS GmbH LIEGNITZERSTRASSE 6, 82194 GROEBENZELL, GERMANY declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN60065, EN55013, EN55020 and EN61000-3-2, -3-3. GROEBENZELL, GERMANY K. MIYAGI ONKYO EUROPE ELECTRONICS GmbH 3 Supplied Accessories Make sure you have the following accessories: Surround Back Left Surround Back Left Zone 2 Left Zone 2 Left Surround Back Left Surround Back Left Zone 2 Left Zone 2 Left Surround Back Right Surround Back Right Zone 2 Right Zone 2 Right Surround Back Right Surround Back Right Zone 2 Right Zone 2 Right Front Left Front Left SP-B / Zone 2 Left SP-B / Zone 2 Left Front Right Front Right SP-B / Zone 2 Right SP-B / Zone 2 Right Surround Left Surround Left Surround Right Surround Right Center Center Center Center Front Left Front Left SP-B / Zone 2 Left SP-B / Zone 2 Left Front Right Front Right SP-B / Zone 2 Right SP-B / Zone 2 Right 1 2 3 Speaker Cable Remote controller and two batteries (AA/R6) Speaker cable labels \* In catalogs and on packaging, the letter at the end of the product name indicates the color.

Specifications and operation are the same regardless of color. Indoor FM antenna AM loop antenna Speaker setup microphone Speaker terminal tool Power-plug adapter Only supplied in certain countries. Use this adapter if your AC outlet does not match with the plug on the AV receiver's power cord. (Adapter varies from country to country.) 4 Surround Left Surround Left Surround Right Surround Right Contents Introduction Important Safety Instructions .....

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*31 C See "Display" on page 8. M STEREO button (46) Selects the Stereo listening mode. E Input selector buttons (38) Select the input sources. The [MULTI CH] button selects the multichannel DVD input. N LISTENING MODE [ ]/[ ] buttons (46) Select the listening modes. O RT/PTY/TP button (43) Used with RDS (Radio Data System). See "Using RDS" on page 42. F Arrow/TUNING/PRESET and ENTER buttons When the tuner is selected, the TUNING [ ] [ ] buttons are used for radio tuning, and the PRESET [ ] [ ] buttons are used to select radio presets (see page 41). With the setup menus, they work as arrow buttons and are used to select and set items. The ENTER button is also used with the setup menus.*

*P MEMORY button (41) Used when storing or deleting radio presets. Q TUNING MODE button (40) Selects the Auto or Manual tuning mode for AM and FM radio. R SETUP button Used to access the setup menus. G MASTER VOLUME control (38) Sets the volume of the AV receiver to MIN, 1 through 79, or MAX. S SETUP MIC (34) The automatic speaker setup microphone connects here. H PHONES jack (45) This 1/4-inch phone jack is for connecting a standard pair of stereo headphones for private listening. T RETURN button Selects the previously displayed setup menu. I PURE AUDIO button and indicator (46) Selects the Pure Audio listening mode. The indicator lights up when this mode is selected. U AUX INPUT (27, 51) Used to connect a camcorder, games console, and so on.*

*There are jacks for composite video and analog audio. 7 Getting to Know the AV Receiver--Continued Display 1 2 3 4 5 For detailed information, see the pages in parentheses. 6 7 1 MUTING indicator (44) Flashes while the AV receiver is muted. 2 Input signal format indicators Show the audio signal format of the current input source. 3 Listening mode indicators (47) Show the selected listening mode.*

*4 Radio indicators FM STEREO (40): Lights up when tuned to a stereo FM station. RDS (42): Lights up when tuned to a radio station that supports RDS (Radio Data System). AUTO (40): For AM and FM radio, lights up when Auto Tuning mode is selected, and disappears when Manual Tuning mode is selected. TUNED (40): Lights up when tuned to a radio station. 5 SLEEP indicator (45) Lights up when the Sleep function has been set.*

6 Message area Displays various information about the selected input source. 7 Audyssey indicator (33) Lights up during automatic speaker setup. 8 Getting to Know the AV Receiver--Continued Rear Panel 1 2 IN 2 3 HDMI IN 1 OUT ASSIGNABLE 45 ANTENNA FM 75 AM 6 SURROUND SPEAKERS L 7 FRONT SPEAKERS L CENTER SPEAKER DIGITAL IN ASSIGNABLE COAXIAL 1 (DVD) Y CBL/SAT (CBL/SAT) VCR/DVR DVD MONITOR OUT V 2 CB/PB V S R R OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT COMPONENT VIDEO (CD) IN IN IN FRONT SURROUND CENTER 2 IN IN PRE OUT SUB WOOFER L L L R REMOTE CONTROL R R SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD 8 9J K L M J TAPE IN/OUT This analog audio input and output are for connecting a recorder with an analog audio input and output, such as a cassette deck, MD recorder, etc.



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A DIGITAL IN OPTICAL 1, 2 and COAXIAL 1, 2 These optical and coaxial digital audio inputs are for connecting components with optical or coaxial digital audio outputs, such as CD and DVD players. B HDMI IN 1, 2, and OUT These jacks are for connecting HDMI-compatible components. Audio and video signals received by the HDMI IN jacks pass through to the HDMI OUT jack. K VCR/DVR IN/OUT and CBL/SAT IN The VCR/DVR inputs and outputs can be used to connect a VCR or DVR (digital video recorder). The CBL/SAT inputs can be used to connect a cable/satellite receiver, set-top box, etc. C COMPONENT VIDEO A DVD player, TV, or other component that supports component video can be connected here. L DVD IN These jacks can be used to connect a DVD player with an analog multichannel audio output for SACD and DVD-Audio playback.

D AM ANTENNA These push terminals are for connecting an AM antenna. M SUBWOOFER PRE OUT A powered subwoofer can be connected here. E FM ANTENNA This jack is for connecting an FM antenna. F MONITOR OUT The S-Video or composite video output should be connected to a video input on your TV or projector. G FRONT SPEAKERS, SURROUND SPEAKERS, and CENTER SPEAKER These terminal posts are for connecting speakers. H REMOTE CONTROL This Remote Interactive jack can be connected to the jack on another -capable Onkyo component. To use, you must make an analog audio connection (RCA) between the AV receiver and the other component, even if they are connected digitally. This analog audio input is for connecting a CD player's analog audio output. See pages 1531 for hookup information. I CD IN 9 Remote Controller Using the Remote Controller Including the AV receiver, the remote controller can be used to control up to seven different components.

The remote controller has a specific operating mode for use with each type of component. Modes are selected by using the six REMOTE MODE buttons. RECEIVER/TAPE Mode In RECEIVER/TAPE mode, you can control the AV receiver and an Onkyo cassette recorder connected via . RECEIVER/TAPE Mode RECEIVER/TAPE mode is used to control the AV receiver. It can also be used to control an Onkyo cassette recorder connected via .

STANDBY/ON REMOTE MODE RECEIVER TAPE/AMP RECEIVER TAPE/AMP 1 2 3 1 D TUN RECEIVER TAPE/AMP DVD M D/CDR INPUT SELECTOR 1 VCR/DVR 2 CBL/SAT 3 6 DVD CD DOCK DVD and CD/MD/CDR/DOCK DVD Modes With these modes, you can control a DVD M D/CDR CD player and CD player, MD recorder, CDR, DOCK or RI dock. By entering the appropriate remote control code, you can control Onkyo components or components made by other manufacturers (see page 58). TV, VCR and SAT/CABLE Modes With these modes, you can control a TV, VCR, and satellite or cable receiver. You must enter the appropriate remote control code first (see page 58). TV 4 AUX 5 MULTI CH TV J 7 TAPE 8 TUNER 9 CD VCR 12 CABLE 10 11 +10 0 ENT DIMMER CLR SLEEP SAT 4 2 --/-- K VOL TV INPUT GUIDE TOP MENU VOL DISC ALBUM CH L M PREVIOUS MENU VCR CABLE 3 5 PLAYLIST/CAT ENTER MUTING SAT PLAYLIST/CAT 6 SETUP RETURN N 1 REMOTE MODE Press one of the REMOTE MODE buttons to select a mode.

4 7 8 9 LISTENING MODE STEREO SURROUND RECEIVER TAPE/AMP DVD M D/CDR CD DOCK AUDIO SUBTITLE RANDOM REPEAT TEST TONE CH SEL PLAY MODE DISPLAY VCR L NIGHT DVD CINE FLTR HDD LEVELLEVEL+ TV VCR CABLE O P SAT RC-681M 2 Use the buttons supported by that mode to control the component. RECEIVER/TAPE mode: see right column DVD mode: see page 12 CD/MD/CDR/DOCK mode: see page 13 TV, VCR, SAT/CABLE modes: see page 60 Buttons 1, 2, 3, and 4 are used when the TUNER or TAPE input is selected. Note: Some of the remote controller operations described in this manual may not work as expected with other components. 10 Remote Controller--Continued For detailed information, see the pages in parentheses. Buttons used when the TUNER input is selected To select the Tuner (AM/FM) as the input source, press: RECEIVER A STANDBY/ON button (32) Sets the AV receiver to On or Standby. B INPUT SELECTOR buttons (38) Used to select the input sources. 8 TUNER C MULTI CH button (39) Selects the multichannel DVD input. D DIMMER button (44) Adjusts the display brightness. 1 Number, D TUN, and ENT buttons (41) Used to select AM and FM radio stations directly. E Arrow [ ]/[ ]/[ ] and ENTER buttons Used to select and adjust settings.

2 CH +/- button (41) Used to select radio presets. F SETUP button Used to access the setup menus. 3 Arrow [ ]/[ ] buttons For AM and FM, the Up and Down [ ] buttons are used for tuning. [ ]/[ ] but- G LISTENING MODE buttons (46) Used to select the listening modes. These buttons work in all remote controller modes. STEREO button Selects the Stereo listening mode. SURROUND button Selects the Dolby and DTS listening modes. [ ]/[ ] buttons Used to select the available listening modes. Buttons used when the TAPE input is selected To select your Cassette deck as the input source, press: RECEIVER 7 TAPE H TEST TONE, CH SEL, LEVEL-, and LEVEL+ buttons (45, 55) Used to adjust the level of each speaker. 4 Playback buttons On twin cassette decks, only deck B can be controlled.

Play [ ] button Starts playback. Stop [ ] button Stops playback. Reverse Play [ ] button Starts reverse playback. Rewind and FF [ ]/[ ] buttons The Rewind [ ] button starts rewind. The FF [ ] button starts fast forward.

I DISPLAY button (39) Displays various information about the selected input source. J REMOTE MODE buttons (10) Used to select the remote controller modes. When a remote controller button is pressed, the REMOTE MODE button for the currently selected mode lights up. K SLEEP button (45) Used with the Sleep function. L VOL [ ]/[ ] button (38) Adjusts the volume of the AV receiver regardless of the currently selected remote controller mode.

M MUTING button (44) Mutes or unmutes the AV receiver. N RETURN button Selects the previously displayed setup menu. O CINE FLTR button (49) Used with the CinemaFILTER function. P L NIGHT button (49) Used with the Late Night function. 11 Remote Controller--Continued DVD Mode By default, the remote controller is set to control an Onkyo DVD player. To select your DVD player as the input source, press: RECEIVER A STANDBY/ON button Sets the DVD player to On or Standby. B Number buttons Used to enter title, chapter, and track numbers and times for locating specific points. C DISC +/- button Selects discs on a DVD changer. 6 DVD or 5 MULTI CH D TOP MENU button Selects a DVD's top menu. E Arrow [ ]/[ ]/[ ] and ENTER buttons Used to navigate DVD menus and the DVD player's onscreen setup menus.

F SETUP button STANDBY/ON REMOTE MODE Used to access the DVD player's onscreen setup menus.



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DVD 1 2 1 VCR/DVR RECEIVER TAPE/AMP DVD M D/CD R Playback buttons From left to right: Pause, Play, Stop, Fast Reverse, Fast Forward, Previous, and Next. INPUT SELECTOR 2 CBL/SAT 3 6 DVD CD DOCK 4 AUX 5 MULTI CH TV H SUBTITLE button Selects subtitles. 7 TAPE 8 TUNER 9 CD VCR 12 CABLE I AUDIO button 10 11 +10 D TUN 0 ENT DIMMER CLR SLEEP SAT --/-- K VOL Selects foreign language soundtracks and audio formats (e.g., Dolby Digital or DTS). J DISPLAY button Displays information about the current disc, title, chapter, or track, including elapsed time, remaining time, total time, and so on. TV INPUT VOL DISC ALBUM CH 3 4 GUIDE TOP MENU PREVIOUS MENU L MUTING ENTER PLAYLIST/CAT PLAYLIST/CAT K CLR button Cancels functions and clears entered numbers. 5 6 SETUP L MENU button Displays a DVD's menu. M RETURN M RETURN button Exits the DVD player's onscreen setup menus.

N RANDOM button 7 LISTENING MODE STEREO SURROUND Used with the random playback function. O REPEAT button Used with the repeat playback functions. LEVEL+ 8 9 J AUDIO SUBTITLE RANDOM REPEAT TEST TONE CH SEL PLAY MODE DISPLAY VCR L NIGHT DVD CINE FLTR HDD LEVEL- N O P Q P VCR, DVD, and HDD buttons Used to select VCR, HDD (hard disk drive), or DVD playback on a VCR/DVD recorder with a built-in hard disk drive. Q PLAY MODE button Selects play modes on components with selectable play modes. RC-681M 12 Remote Controller--Continued CD/MD/CDR/DOCK Mode By default, the remote controller is set to control an Onkyo CD player.

To select the input source, press: 9 CD A STANDBY/ON button Sets the component to On or Standby. B Number buttons Used to enter track numbers and times for locating specific points on CD/MD players. C DISC/ALBUM +/- button Selects discs on a CD changer, or the next or previous album on an HDD-compatible component connected to an RI Dock. CD player MD or CD recorder 2 CBL/SAT RECEIVER 7 TAPE D TOP MENU button RI Dock 7 TAPE or Works as a Mode button when used with a DS-A2 RI Dock. \* If you're using an MD, CDR, or an RI Dock, you must change the Input Display (see page 37). E Arrow [ ]/[ ] and ENTER buttons Used to navigate menus on an HDD-compatible component connected to an RI Dock. F Playback buttons From left to right: Pause, Play, Stop, Fast Reverse, Fast Forward, Previous and Next. STANDBY/ON REMOTE MODE G DISPLAY button M D/CD R 1 2 1 VCR/DVR RECEIVER TAPE/AMP DVD M D/CD R INPUT SELECTOR 2 CBL/SAT 3 6 DVD CD DOCK CD DOCK 4 AUX 5 MULTI CH TV Displays information about the current disc or track on a CD player or MD/CD recorder, including elapsed time, remaining time, total time, and so on. On an HDD-compatible component connected to an RI Dock, it turns on the back light for 30 seconds. 7 TAPE 8 TUNER 9 CD VCR 12 CABLE H CLR button Cancels functions and clears entered numbers on a CD player or MD/CD recorder. 10 11 +10 D TUN 0 ENT DIMMER CLR SLEEP SAT --/-- 8 VOL I MENU button Used to navigate menus on an HDD-compatible component connected to an RI Dock. 3 INPUT TV VOL DISC ALBUM CH 4 5 GUIDE TOP MENU J PLAYLIST [ ]/[ ] buttons PREVIOUS MENU 9 J MUTING Selects the previous or next playlist on an HDD-compatible component connected to an RI Dock. ENTER PLAYLIST/CAT PLAYLIST/CAT K RANDOM button Used with the random/shuffle playback function. L REPEAT button SETUP RETURN Used with the repeat playback functions. M PLAY MODE button 6 LISTENING MODE STEREO SURROUND AUDIO SUBTITLE RANDOM REPEAT TEST TONE CH SEL PLAY MODE DISPLAY VCR L NIGHT DVD CINE FLTR HDD LEVELLEVEL+ K L M Used to select play modes on components with selectable play modes.

Works as a Resume button when used with a DS-A2 RI Dock. 7 RC-681M 13 Remote Controller--Continued Installing the Batteries Aiming the Remote Controller When using the remote controller, point it toward the AV receiver's remote control sensor, as shown below. Remote control sensor AV receiver STANDBY indicator 1 To open the battery compartment, press the small hollow and slide open the cover. 2 Insert the two supplied batteries (AA/R6) in accordance with the polarity diagram inside the battery compartment. Approx. 16 ft. (5 m) 3 Slide the cover shut. Notes: · The remote controller may not work reliably if the AV receiver is subjected to bright light, such as direct sunlight or inverter-type fluorescent lights. Keep this in mind when installing. · If another remote controller of the same type is used in the same room, or the AV receiver is installed close to equipment that uses infrared rays, the remote controller may not work reliably.

· Don't put anything on top of the remote controller, such as a book or magazine, because a button may be pressed continuously, thereby draining the batteries. · The remote controller may not work reliably if the AV receiver is installed in a rack behind colored glass doors. Keep this in mind when installing. · The remote controller will not work if there's an obstacle between it and the AV receiver's remote control sensor. Notes: · If the remote controller doesn't work reliably, try replacing the batteries.

· Don't mix new and old batteries or different types of batteries. · If you intend not to use the remote controller for a long time, remove the batteries to prevent damage from leakage or corrosion. · Expired batteries should be removed as soon as possible to prevent damage from leakage or corrosion. 14 Connecting Your Speakers Enjoying Home Theater Thanks to the AV receiver's superb capabilities, you can enjoy surround sound with a real sense of movement in your own home--just like being in a movie theater or concert hall. You can enjoy DVDs featuring DTS and Dolby Digital.

With analog and digital TV, you can enjoy Dolby Pro Logic II and Onkyo's own DSP surround listening modes. Front left and right speakers These output the overall sound. Their role in a home theater is to provide a solid anchor for the sound image. They should be positioned facing the listener at about ear level, and equally spaced from the TV. Angle them inward slightly so as to create a triangle, with the listener at the apex. Center speaker This speaker enhances the front left and right speakers, making sound movements distinct and providing a full sound image. For movies it's used mainly for dialog. Position it close to your TV facing forward at about ear level, or at the same height as the front left and right speakers. Subwoofer The subwoofer handles the bass sounds of the LFE (Low-Frequency Effects) channel. The volume and quality of the bass output from your subwoofer will depend on its position, the shape of your listening room, and your listening position.



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In general, a good bass sound can be obtained by installing the subwoofer in a front corner, or at one-third the way along the wall, as shown. Tip: To find the best position for your subwoofer, while playing a movie or some music with good bass, experiment by placing your subwoofer at various positions within the room, and choose the one that provides the most satisfying results. Corner 1/3 wall length Surround left and right speakers These speakers are used for precise sound positioning and to add realistic ambience. Position them at the sides of the listener, or slightly behind, about 23 feet (60100 cm) above ear level. Ideally they should be equally spaced from the listener. Speaker Configuration For the best surround-sound experience, you should connect five speakers and a powered subwoofer. The following table shows which channels you should use based on the number of speakers that you have. Number of speakers: Front left Front right Center Surround left Surround right 2 3 4 5 No matter how many speakers you use, a powered subwoofer is recommended for a really powerful and solid bass. Before using the AV receiver, you must do the automatic speaker setup (see page 33). 15 Connecting Your Speakers--Continued Speaker Connection Precautions Read the following before connecting your speakers: · You can connect speakers with an impedance of between 8 and 16 ohms.

If you use speakers with a lower impedance, and use the amplifier at high volume levels for a long period of time, the built-in amp protection circuit may be activated. · Disconnect the power cord from the wall outlet before making any connections. · Read the instructions supplied with your speakers. · Pay close attention to speaker wiring polarity. In other words, connect positive (+) terminals to only positive (+) terminals, and negative (-) terminals to only negative (-) terminals.

If you get them the wrong way around, the sound will be out of phase and will sound unnatural. · Unnecessarily long or very thin speaker cables may affect the sound quality and should be avoided. · Be careful not to short the positive and negative wires. Doing so may damage the AV receiver. · Don't connect more than one cable to each speaker terminal.

Doing so may damage the AV receiver. · Don't connect a speaker to several terminals. Attaching the Speaker Labels The AV receiver's positive (+) speaker terminals are color-coded for ease of identification. (The negative (-) speaker terminals are all black.) Speaker terminal Front left Front right Center Surround left Surround right Color White Red Green Blue Gray The supplied speaker labels are also color-coded and you should attach them to the positive (+) side of each speaker cable in accordance with the above table. All you need to do then is to match the color of each label to the corresponding speaker terminal. Using the Speaker Terminal Tool The supplied speaker terminal tool makes it easy to tighten and loosen the speaker terminals. (In Europe, using banana plugs to connect speakers to an audio amplifier is prohibited.) 16 Connecting Your Speakers--Continued Connecting Speakers Connecting a Powered Subwoofer 5/8" (15 mm) 1 Strip 5/8" (15 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. Using a suitable cable, connect the AV receiver's SUBWOOFER PRE OUT to the input on your powered subwoofer.

If your subwoofer is unpowered and you're using an external amplifier, connect the SUBWOOFER PRE OUT to its input. Note: Make sure the plugs are pushed in all the way. 2 Unscrew the terminal. Fully insert the bare wire, making sure that it's touching the threaded shaft in the center. Screw the terminal tight. The following illustration shows which speaker should be connected to each pair of terminals. Surround right speaker Surround left speaker Front right speaker Front left speaker Center speaker SURROUND SPEAKERS FRONT SPEAKERS CENTER SPEAKER L R IN 2 IN 1 HDMI OUT ASSIGNABLE ANTENNA FM 75 AM SURROUND SPEAKERS L FRONT SPEAKERS L CENTER SPEAKER DIGITAL IN ASSIGNABLE COAXIAL 1 (DVD) Y CBL/SAT 2 CB/PB VCR/DVR DVD MONITOR OUT V (CBL/SAT) V S R R OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT COMPONENT VIDEO (CD) IN IN IN FRONT SURROUND CENTER 2 IN IN PRE OUT SUB WOOFER L L L R REMOTE CONTROL R R SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD Powered subwoofer LINE INPUT 17 Connecting Antennas This section explains how to connect the supplied indoor FM antenna and AM loop antenna, and how to connect commercially available outdoor FM and AM antennas. The AV receiver won't pick up any radio signals without any antenna connected, so you must connect the antenna to use the tuner. AM antenna push terminals FM antenna jack OUT Connecting the AM Loop Antenna The supplied indoor AM loop antenna is for indoor use only. 1 Assemble the AM loop antenna, inserting the tabs into the base, as shown.

ANTENNA AM FM 75 OUT OUT OUT OUT 2 Connecting the Indoor FM Antenna The supplied indoor FM antenna is for indoor use only. 1 Attach the FM antenna, as shown. FM 75 Connect both wires of the AM loop antenna to the AM push terminals, as shown. (The antenna's wires are not polarity sensitive, so they can be connected either way around). Make sure that the wires are attached securely and that the push terminals are gripping the bare wires, not the insulation.

Insert the plug fully into the jack. Once your AV receiver is ready for use, you'll need to tune into an FM radio station and adjust the position of the FM antenna to achieve the best possible reception. Push Insert wire Release 2 Use thumbtacks or something similar to fix the FM antenna into position. Thumbtacks, etc. Once your AV receiver is ready for use, you'll need to tune into an AM radio station and adjust the position of the AM antenna to achieve the best possible reception.

Keep the antenna as far away as possible from your AV receiver, TV, speaker cables, and power cords. If you cannot achieve good reception with the supplied indoor AM loop antenna, try using it with a commercially available outdoor AM antenna (see page 19). Caution: Be careful that you don't injure yourself when using thumbtacks. If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead (see page 19). 18 Connecting Antennas--Continued Connecting an Outdoor FM Antenna If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead. Connecting an Outdoor AM Antenna If good reception cannot be achieved using the supplied AM loop antenna, an outdoor AM antenna can be used in addition to the loop antenna, as shown.



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Outdoor antenna FM 75 Insulated antenna cable AM loop antenna Notes: · Outdoor FM antennas work best outside, but usable results can sometimes be obtained when installed in an attic or loft. · For best results, install the outdoor FM antenna well away from tall buildings, preferably with a clear line of sight to your local FM transmitter. · Outdoor antenna should be located away from possible noise sources, such as neon signs, busy roads, etc. · For safety reasons, outdoor antenna should be situated well away from power lines and other high-voltage equipment.

· Outdoor antenna must be grounded in accordance with local regulations to prevent electrical shock hazards. Using a TV/FM Antenna Splitter It's best not to use the same antenna for both FM and TV reception, as this can cause interference problems. If circumstances demand it, use a TV/FM antenna splitter, as shown. Outdoor AM antennas work best when installed horizontally outside, but good results can sometimes be obtained indoors by mounting horizontally above a window. Note that the AM loop antenna should be left connected. Outdoor antenna must be grounded in accordance with local regulations to prevent electrical shock hazards. TV/FM antenna splitter To AV receiver To TV (or VCR) 19 Connecting Your Components About AV Connections · Before making any AV connections, read the manuals supplied with your other AV components. · Don't connect the power cord until you've completed and double-checked all AV connections. AV Connection Color Coding RCA-type AV connections are usually color coded: red, white, and yellow. Use red plugs to connect right-channel audio inputs and outputs (typically labeled "R").

Use white plugs to connect left-channel audio inputs and outputs (typically labeled "L"). And use yellow plugs to connect composite video inputs and outputs. Left (white) Right (red) (Yellow) Composite video Analog audio Left (white) Right (red) (Yellow) Right! Optical Digital Jacks The AV receiver's optical digital jacks have shutter-type covers that open when an optical plug is inserted and close when it's removed. Push plugs in all the way. Caution: To prevent shutter damage, hold the optical plug straight when inserting and removing.

· Push plugs in all the way to make good connections (loose connections can cause noise or malfunctions). · To prevent interference, keep audio and video cables away from power cords and speaker cables. Wrong! AV Cables and Jacks Video Cable Y Y PB CB/PB Jack Y Description Component video cable PB PR PR CR/PR Component video separates the luminance (Y) and color difference signals (PR, PB), providing the best picture quality. (Some TV manufacturers label their component video jacks slightly differently.) S-Video separates the luminance and color signals and provides better picture quality than composite video.

Composite video is commonly used on TVs, VCRs, and other video equipment. Use only dedicated composite video cables. S-Video cable S Composite video cable V Audio Cable Optical digital audio cable Jack OPTICAL Description This offers the best sound quality and allows you to enjoy Dolby Digital and DTS. The audio quality is the same as for coaxial. This offers the best sound quality and allows you to enjoy Dolby Digital and DTS. The audio quality is the same as for optical. This cable carries analog audio. It's the most common connection format for analog audio and can be found on virtually all AV components. This cable carries multichannel analog audio and is typically used to connect DVD players with a 5.1 channel analog audio output.

Several standard analog audio cables can be used instead of a multichannel cable. Coaxial digital audio cable COAXIAL Analog audio cable (RCA) L R Multichannel analog audio cable (RCA) Note: The AV receiver does not support SCART connections. 20 Connecting Your Components--Continued Connecting Audio and Video Signals to the AV Receiver By connecting both the audio and video outputs of your DVD player and other AV components to the AV receiver, you can switch the audio and video signals simultaneously simply by changing the input source on the AV receiver. : Signal Flow Video Audio Video Audio TV, projector, etc. Speakers (see page 17 for hookup details) DVD player, etc. Which Connections Should I Use? The AV receiver supports several connection formats for compatibility with a wide range of AV equipment. The format you choose will depend on the formats supported by your other components. Use the following sections as a guide. For video components, such as a DVD player, you must make an audio connection and a video connection.

Audio Connection Formats When choosing a connection format, bear in mind that the AV receiver doesn't convert between formats. Video Connection Formats Video equipment can be connected by using any one of the following video connection formats: composite video, S-Video, or component video, the latter offering the best picture quality. When choosing a connection format, bear in mind that the AV receiver doesn't convert between formats, so only outputs of the same format as the input will output the signal. Video Signal Flow Chart DVD player, etc. Composite S-Video Component IN AV Receiver MONITOR OUT Composite S-Video Component TV, projector, etc. 21 Connecting Your Components--Continued Connecting a TV or Projector

Step 1: Choose a video connection from A, B, and C.

Step 2: Choose an audio connection from a, b, and c. · With connection a, you can listen to and record audio from your TV. · To enjoy Dolby Digital and DTS, use connection b or c. (For recording, use a and b, or a and c.) Connection A B C a b c AV receiver COMPONENT VIDEO OUT MONITOR OUT S MONITOR OUT V CBL/SAT IN L/R DIGITAL IN COAXIAL 2 DIGITAL IN OPTICAL 1 Signal flow TV Component video input S-Video input Composite video input Analog audio L/R output Digital coaxial output Digital optical output Picture quality Best Better Standard IN 2 IN 1 OUT HDMI ASSIGNABLE ANTENNA FM 75 AM SURROUND SPEAKERS L FRONT SPEAKERS L S DIGITAL IN ASSIGNABLE b COAXIAL 1 (DVD) Y CBL/SAT 2 CB/PB VCR/DVR DVD MONITOR OUT V C R R (CBL/SAT) V S OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT c A COMPONENT VIDEO (CD) IN IN IN FRONT SURROUND CENTER 2 IN IN B PRE OUT SUB WOOFER L L L R REMOTE CONTROL R R SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD a L COAXIAL OUT OPTICAL OUT Y PB PR COMPONENT VIDEO IN AUDIO OUT R S VIDEO IN VIDEO IN

Connect one or the other Connection c must be assigned (see page 37) TV, projector, etc.

Hint! If your TV has no audio outputs, connect an audio output from your VCR or cable or satellite receiver to the AV receiver and use its tuner to listen to TV programs through the AV receiver (see pages 26 and 28).



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22 Connecting Your Components--Continued Connecting a DVD player Step 1: Choose a video connection from A, B, and C. You must connect the AV receiver to your TV via the same type of connection. Step 2: Choose an audio connection from a, b, and c. With connection a, you can listen to and record audio from a DVD. To enjoy Dolby Digital and DTS, use connection b or c. (For recording, use a and b, or a and c.) If your DVD player has main left and right outputs and multichannel left and right outputs, be sure to use the main left and right outputs for connection a. Connection A B C a b c AV receiver COMPONENT VIDEO DVD IN DVD IN S DVD IN V DVD IN FRONT DIGITAL IN COAXIAL 1 DIGITAL IN OPTICAL 1 Signal flow DVD player Picture quality Best Better Standard Component video output S-Video output Composite video output Analog audio L/R output Digital coaxial output Digital optical output IN 2 IN 1 OUT HDMI ASSIGNABLE ANTENNA FM 75 b c AM SURROUND SPEAKERS L FRONT SPEAKERS L DIGITAL IN ASSIGNABLE COAXIAL 1 (DVD) Y CBL/SAT 2 CB/PB VCR/DVR DVD MONITOR OUT V C R R (CBL/SAT) V S OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT COMPONENT VIDEO (CD) IN IN IN FRONT SURROUND CENTER 2 IN IN B PRE OUT SUB WOOFER L L L A REMOTE CONTROL R R R SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD a L COAXIAL OUT OPTICAL OUT Y PB PR COMPONENT VIDEO OUT AUDIO OUT R S VIDEO OUT VIDEO OUT Connect one or the other Connection c must be assigned (see page 37) DVD player To connect a DVD player or DVD-Audio/SACD-capable player with a multichannel analog audio output, see page 24. 23 Connecting Your Components--Continued Hooking Up the Multichannel DVD Input If your DVD player supports multichannel audio formats such as DVD-Audio or SACD, and it has a multichannel analog audio output, you can connect it to the AV receiver's multichannel DVD input.

Use a multichannel analog audio cable, or several normal audio cables, to connect the AV receiver's DVD IN FRONT L/R, CENTER, SURROUND L/R, and SUBWOOFER jacks to the 5.1-channel analog audio output on your DVD player. IN 2 IN 1 OUT HDMI ASSIGNABLE ANTENNA FM 75 AM SURROUND SPEAKERS L FRONT SPEAKERS L CENTER SPEAKER DIGITAL IN ASSIGNABLE COAXIAL 1 (DVD) Y CBL/SAT 2 CB/PB VCR/DVR DVD MONITOR OUT V V S (CBL/SAT) R R OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT 5.1 ch IN IN IN FRONT SURROUND CENTER COMPONENT VIDEO (CD) 2 IN IN FRONT PRE OUT SUB WOOFER SURROUND CENTER L L L L R REMOTE CONTROL R R SUB WOOFER R DVD SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD L FRONT R L SURROUND R CENTER SUB WOOFER DVD player 24

Connecting Your Components--Continued Connecting Components with HDMI If you have an HDMI-compatible player, you can connect it to the AV receiver with an HDMI cable. Step 1: Connect your HDMI-compatible TV to the AV receiver's HDMI OUT jack. Step 2: Connect your HDMI-compatible player to the AV receiver's HDMI IN 1 or 2 jack. Step 3: Connect your HDMI-compatible player to an analog and/or digital audio input on the AV receiver. Audio and video signals received via the HDMI IN 1 and 2 jacks are output by the HDMI OUT jack as they are (HDMI pass-through), so even if you only make the connections in steps 1 and 2, your TV will output sound. However, if you want to listen through the speakers connected to the AV receiver, in addition to an HDMI connection, you'll also need to make a separate analog or digital audio connection. Step 4: Assign the HDMI IN.

Turn on the AV receiver, and then assign the HDMI IN (see page 36) HDMI OUT HDMI IN TV Step 2 DVD player Step 3 HDMI ASSIGNABLE Step 1 HDMI IN 1 IN 2 IN 1 OUT HDMI ASSIGNABLE ANTENNA FM 75 AM DIGITAL IN ASSIGNABLE COAXIAL 1 (DVD) Y CBL/SAT 2 VCR/DVR DVD MONITOR OUT V (CBL/SAT) CB/PB V S OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT COMPONENT VIDEO (CD) IN IN IN FRONT SURROUND CENTER 2 Tip! If you make the connection described in step 3, to fully enjoy the AV receiver's listening modes, turn down the volume on your TV all the way so that its speakers output no sound. IN IN L L L R REMOTE CONTROL R R SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD Connect one or the other Sound off Notes: Audio and video signals received via the HDMI IN jacks are output only by the HDMI OUT. Audio and video signals received via inputs other than the HDMI IN jacks are not output by the HDMI OUT. The HDMI video stream is compatible with DVI (Digital Visual Interface), so TVs and displays with a DVI input can be connected by using an HDMI-to-DVI adapter cable. (Note that DVI connections only carry video, so you'll need to make a separate connection for audio.)

) However, reliable operation with such an adapter is not guaranteed. In addition, video signals from a PC are not supported. To watch an HDMI source that's connected via the AV receiver's HDMI jacks, the AV receiver must be turned on, otherwise no HDMI signal will be output. The HDMI audio signal (sampling rate, bit length, etc.) may be restricted by the connected source component.

If the picture is poor or there's no sound from a component connected via HDMI, check its setup. Refer to the connected component's instruction manual for details. 25 Connecting Your Components--Continued Connecting a VCR or DVD Recorder for Playback Hint! With this hookup, you can use your VCR's tuner to listen to your favorite TV programs via the AV receiver, useful if your TV has no audio outputs. Step 1: Choose a video connection from A, B, and C. You must connect the AV receiver to your TV via the same type of connection. Step 2: Choose an audio connection from a, b, and c. With connection a, you can listen to the VCR or DVD recorder. To enjoy Dolby Digital and DTS, use connection b or c. Connection A B C a b c AV receiver COMPONENT VIDEO VCR/DVR IN VCR/DVR IN S VCR/DVR IN V VCR/DVR IN L/R DIGITAL IN COAXIAL 2 DIGITAL IN OPTICAL 1 Signal flow VCR or DVD recorder Component video output S-Video output Composite video output Analog audio L/R output Digital coaxial output Digital optical output Picture quality Best Better Standard IN 2 IN 1 OUT HDMI ASSIGNABLE ANTENNA FM 75 AM SURROUND SPEAKERS L FRONT SPEAKERS DIGITAL IN ASSIGNABLE b COAXIAL 1 (DVD) Y CBL/SAT 2 CB/PB VCR/DVR DVD MONITOR OUT V C R (CBL/SAT) V S OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT c A COMPONENT VIDEO (CD) IN IN IN FRONT 2 IN IN SURROUND CENTER B PRE OUT SUB WOOFER L L L R REMOTE CONTROL R R SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD a L COAXIAL OUT OPTICAL OUT Y PB PR COMPONENT VIDEO OUT AUDIO OUT R S VIDEO OUT VIDEO OUT Connect one or the other Connection b must be assigned (see page 37) VCR, DVD recorder 26 Connecting Your Components--Continued Connecting a VCR or DVD Recorder for Recording Step 1: Choose a video connection from A and B.



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The video source to be recorded must be connected to the AV receiver via the same type of connection.

Step 2: Make the audio connection a . DIGITAL IN ASSIGNABLE IN 2 IN 1 OUT HDMI AM ANTENNA FM 75 SURROUND SPEAKERS L FRONT SPEAKERS L COAXIAL 1 (DVD) Y CBL/SAT (CBL/SAT) VCR/DVR DVD B MONITOR OUT V 2 CB/PB V S R R OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT COMPONENT VIDEO IN IN IN FRONT a (CD) 2 IN IN A SURROUND CENTER PRE OUT SUB WOOFER L L L R REMOTE CONTROL R R SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD L R AUDIO IN S VIDEO IN VCR, DVD recorder

Connection A B a AV receiver VCR/DVR OUT S VCR/DVR OUT V VCR/DVR OUT L/R Signal flow VIDEO IN VCR or DVD recorder S-Video input Composite video input Analog audio L/R input Picture quality Better Standard -- Connecting a Camcorder, Games Console, or Other Device Step 1: Make the video connection A . Step 2: Make the audio connection a . MASTER VOLUME TUNING PRESET a SETUP ENTER RETURN AUX INPUT SETUP MIC VIDEO L AUDIO R AUX INPUT L AUDIO R TUNING MODE L AUDIO R OUT A AUX INPUT VIDEO VIDEO OUT Camcorder, games console, etc.

Connection A a AV receiver AUX INPUT VIDEO AUX INPUT L-AUDIO-R Signal flow Camcorder or console Composite video output Analog audio L/R output 27 Connecting Your Components--Continued Connecting a Satellite, Cable, Set-top box, or Other Video Source Hint! With this hookup, you can use your satellite or cable receiver to listen to your favorite TV programs via the AV receiver, useful if your TV has no audio outputs. Step 1: Choose a video connection from A , B , and C . You must connect the AV receiver to your TV via the same type of connection. Step 2: Choose an audio connection from a , b , and c . · With connection a , you can listen to and record audio from the video source. · To enjoy Dolby Digital and DTS, use connection b or c . (For recording, use a and b , or a and c .) Connection A B C a b c AV receiver COMPONENT VIDEO CBL/SAT IN CBL/SAT IN S CBL/SAT IN V CBL/SAT IN L/R DIGITAL IN COAXIAL 2 DIGITAL IN OPTICAL 1 Signal flow Video source Component video output S-Video output Composite video output Analog audio L/R output Digital coaxial output Digital optical output Picture quality Best Better Standard IN 2 IN 1 OUT HDMI ASSIGNABLE ANTENNA FM 75 AM SURROUND SPEAKERS L FRONT SPEAKERS DIGITAL IN ASSIGNABLE b COAXIAL 1 (DVD) Y CBL/SAT 2 CB/PB VCR/DVR DVD C MONITOR OUT V (CBL/SAT) V S R OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT c A COMPONENT VIDEO (CD) IN IN IN 2 IN IN FRONT B SURROUND CENTER PRE OUT SUB WOOFER L L L R REMOTE CONTROL R R SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD a L COAXIAL OUT OPTICAL OUT Y PB PR COMPONENT VIDEO OUT AUDIO OUT R S VIDEO OUT VIDEO OUT Connect one or the other Connection c must be assigned (see page 37) Satellite, cable, set-top box, etc. 28 Connecting Your Components--Continued Connecting a CD Player or Turntable CD Player or Turntable (MM) with Built-in Phono Preamp Step 1: Choose a connection that matches your CD player ( a , b , or c ). Use connection a for a turntable with a built-in phono preamp. b Connect one or the other Connection b must be assigned (see page 37) COAXIAL IN 2 IN 1 OUT HDMI ASSIGNABLE ANTENNA FM 75 AM 2 (CBL/SAT) DIGITAL IN ASSIGNABLE IN L L R CD SURROUND CENTER COAXIAL 1 (DVD) Y CBL/SAT 2 CB/PB VCR/DVR DVD MONITOR OUT V c (CBL/SAT) V S OPTICAL R OPTICAL 2 (CD) (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT COMPONENT VIDEO (CD) IN IN IN FRONT 2 IN IN AUDIO OUTPUT IN L REMOTE CONTROL L L L R R R SUB WOOFER a CBL/SAT VCR/DVR DVD CD TAPE R CD a R COAXIAL OUT L OPTICAL OUT AUDIO OUT CD player Turntable (MM) with built-in phono preamp · With connection a , you can listen to and record audio from your CD player or turntable and listen via speaker set B . · To connect the CD player digitally, use connection b or c . (For recording, use a and b , or a and c .) Connection a b c AV receiver CD IN L/R DIGITAL IN COAXIAL 2 DIGITAL IN OPTICAL 2 Signal flow CD or turntable Analog audio L/R output Digital coaxial output Digital optical output Turntable (MM) with no Phono Preamp Built-in A phono preamp is necessary to connect a turntable that doesn't have a phono preamp built-in. IN 2 IN 1 OUT Turntable with an MC (Moving Coil) Cartridge An MC head amp and phono preamp are necessary to connect a turntable with an MC (Moving Coil) cartridge. IN 2 IN 1 OUT HDMI ASSIGNABLE HDMI ASSIGNABLE ANTENNA FM 75 ANTENNA FM 75 AM AM DIGITAL IN ASSIGNABLE DIGITAL IN ASSIGNABLE COAXIAL 1 (DVD) Y COAXIAL 1 (DVD) Y CBL/SAT 2 CB/PB VCR/DVR DVD MONITOR OUT V (CBL/SAT) CBL/SAT 2 VCR/DVR DVD MONITOR OUT V (CBL/SAT) V S CB/PB V S OPTICAL (VCR/DVR) OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT I CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT COMPONENT VIDEO (CD) IN IN IN FRONT SURROUND CENTER (CD) COMPONENT VIDEO 2 IN IN IN IN IN FRONT SURROUND CENTER 2 IN IN L L L L L R REMOTE CONTROL R R SUB WOOFER REMOTE CONTROL R R R SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD CD TAPE CBL/SAT VCR/DVR DVD IN L R CD AUDIO OUTPUT L R IN AUDIO OUTPUT L R AUDIO INPUT L R AUDIO OUTPUT L R Phono preamp L R CD Phono preamp MC head amp or MC transformer AUDIO OUTPUT L R AUDIO INPUT L R AUDIO OUTPUT L R AUDIO INPUT L R 29 Connecting Your Components--Continued Connecting an RI Dock RI Dock with video Connect your RI Dock's analog audio output jacks and S-Video output jack to the AV receiver's CBL/SAT IN L/R jacks and CBL/SAT IN S jack. RI Dock without video Connect your RI Dock's analog audio output jacks to the AV receiver's TAPE IN L/R jacks (1). DIGITAL IN ASSIGNABLE S VIDEO OUT L AUDIO OUT R HDMI IN 2 IN 1 OUT ASSIGNABLE ANTENNA FM 75 AM Notes: · Connect the Remote Interactive Dock with an cable (see page 31). · Set the Remote Interactive Dock's RI MODE switch to HDD or HDD/DOCK. · Set the AV receiver's Input Display to DOCK (see page 37). · Refer to the Remote Interactive Dock's instruction manual. COAXIAL 1 (DVD) Y CBL/SAT 2 CB/PB VCR/DVR DVD MONITOR OUT V (CBL/SAT) V S OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT COMPONENT VIDEO (CD) IN IN IN FRONT SURROUND 2 IN IN L L L R REMOTE CONTROL R R CD TAPE 1 CBL/SAT VCR/DVR DVD (DS-A1 hookup shown here).



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) Connecting a Cassette, CDR, MiniDisc, or DAT Recorder Step 1: Choose a connection that matches the recorder ( a , b , or c ), and then make the connection. IN 2 IN 1 OUT HDMI ASSIGNABLE ANTENNA FM 75 b COAXIAL 2 (CBL/SAT) AM DIGITAL IN ASSIGNABLE COAXIAL 1 (DVD) Y CBL/SAT 2 CB/PB VCR/DVR DVD MONITOR OUT V (CBL/SAT) V S OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT c Connect one or the other These connections must be assigned (see page 37) OPTICAL 1 (VCR/DVR) COMPONENT VIDEO (CD) IN IN IN FRONT 2 IN IN L L L OUT CENTER SURROUND IN L a R REMOTE CONTROL R R SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD R TAPE COAXIAL OUT L L OPTICAL OUT R R IN OUT REC PLAY Cassette recorder, CDR, etc. · With connection a , you can use functions. · To connect the recorder digitally, use connections a and b , or a and c .

Connection a b c AV receiver TAPE IN L/R TAPE OUT L/R DIGITAL IN COAXIAL 2 DIGITAL IN OPTICAL 1 Signal flow Cassette/CDR/MD/DAT recorder Analog audio L/R output Analog audio L/R input Digital coaxial output Digital optical output 30 Connecting Your Components--Continued Connecting Onkyo Components Step 1: Make sure that each Onkyo component is connected to the AV receiver with an analog audio cable (connection a in the hookup examples) (see pages 23 to 30). Step 2: Make the connection. Step 3: If you're using an MD, CDR, or RI Dock, change the input Display (see page 37). With (Remote Interactive), you can use the following special functions: Auto Power On/Standby When you start playback on a component connected via , if the AV receiver is on Standby, it will automatically turn on and select that component as the input source. Similarly, when the AV receiver is set to Standby, all components connected via will also go on Standby. This function will not work on components connected to an AC OUTLET on the AV receiver. Direct Change When playback is started on a component connected via , the AV receiver automatically selects that component as the input source. If your DVD player is connected to the AV receiver's multichannel DVD input, you'll need to press the [MULTI CH] button to hear all channels (see page 39), as the Direct Change function only selects the FRONT DVD IN jacks. Remote Control You can use the AV receiver's remote controller to control your other -capable Onkyo components, pointing the remote controller at the AV receiver's remote control sensor instead of the component. You must enter the appropriate remote control code first (page 59).

Notes: · Use only cables for connections. cables are supplied with Onkyo players (DVD, CD, etc.). · Some components have two jacks. You can connect either one to the AV receiver.

The other jack is for connecting additional -capable components. · Connect only Onkyo components to jacks. Connecting other manufacturer's components may cause a malfunction. · Some components may not support all functions. Refer to the manuals supplied with your other Onkyo components.

IN L R HDMI IN 2 IN 1 OUT ASSIGNABLE ANTENNA FM 75 AM DIGITAL IN ASSIGNABLE CD DVD MONITOR OUT V COAXIAL 1 (DVD) Y CBL/SAT 2 CB/PB VCR/DVR REMOTE CONTROL (CBL/SAT) V S OPTICAL (VCR/DVR) 1 CR/PR CBL/SAT IN VCR/DVR IN DVD IN OUT OUT S IN IN OUT OUT FRONT IN IN IN FRONT SURROUND CENTER COMPONENT VIDEO (CD) 2 IN IN L L L R DVD R REMOTE CONTROL R R SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD e.g., CD player R L ANALOG AUDIO OUT e.g., DVD player R L ANALOG AUDIO OUT Connecting the Power Cord · Connect the AV receiver's power cord to a suitable wall outlet. Notes: · Before connecting the power cord, connect all of your speakers and AV components. · Turning on the AV receiver may cause a momentary power surge that might interfere with other electrical equipment on the same circuit. If this is a problem, plug the AV receiver into a different branch circuit. 31 Turning On the AV Receiver STANDBY/ON STANDBY indicator MASTER VOLUME STANDBY/ON REMOTE MODE STANDBY/ON RECEIVER TUNING PRESET RECEIVER TAPE/AMP DVD M D/CDR INPUT SELECTOR 1 VCR/DVR 2 CBL/SAT 3 6 DVD CD DOCK 4 STANDBY/ON 5 MULTI CH TV AUX STANDBY 7 TAPE 8 TUNER 9 CD VCR 12 CABLE PURE AUDIO 10 11 +10 PURE AUDIO 0 ENT DIMMER CLR SLEEP SAT MULTI CH DVD VCR/DVR CBL/SAT AUX TAPE TUNER CD SETUP ENTER RETURN D TUN --/--AUX INPUT PHONES SETUP MIC VIDEO L AUDIO R DISPLAY DIGITAL INPUT TONE STEREO LISTENING MODE RT/PTY/TP MEMORY TUNING MODE CLEAR TV INPUT GUIDE TOP MENU VOL DISC ALBUM CH VOL PREVIOUS MENU MUTING Turning On and Standby 1 AV receiver STANDBY/ON Remote controller RECEIVER Press the [STANDBY/ON] button. Alternatively, press the remote controller's [RECEIVER] button, followed by the [STANDBY/ON] button.

The AV receiver comes on, the display lights up, and the STANDBY indicator goes off. or STANDBY/ON To turn the AV receiver off, press the [STANDBY/ON] button again. The AV receiver will enter Standby mode. To prevent any loud surprises when you next turn on the AV receiver, always turn down the volume before you turn it off. Smooth Operation in a Few Easy Steps To ensure smooth operation, here's a few easy steps to help you configure the AV receiver before you use it for the very first time. These settings only need to be made once. Do the automatic speaker setup--this is essential! See "Automatic Speaker Setup (Audyssey 2EQ)" on page 33. Have you connected a component to an HDMI IN? If you have, see "HDMI Input Setup" on page 36. HDMI Have you connected a component to a digital audio input? If you have, see "Digital Audio Input Setup" on page 37. COAXIAL OPTICAL Have you connected an Onkyo MD recorder, CD recorder, or RI Dock? If you have, see "Changing the Input Display" on page 37.

OUT IN TAPE CD recorder, MD recorder, RI Dock 32 First Time Setup This section explains the settings that you need to make before using the AV receiver for the very first time. Automatic Speaker Setup (Audyssey 2EQ) With the supplied speaker setup microphone, the Audyssey 2EQ function can measure the number of speakers connected, their sizes, crossover frequencies, and distances from the listening position, and then calculate the optimal speaker settings for your listening environment. Before using this function, connect and position all of your speakers. Measurement Points To create a listening area in which several people can enjoy home theater simultaneously, the Audyssey 2EQ function takes measurements at three points within the listening area: A First measurement point This is the center point of the listening area, or the listening position if it's just one person.



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