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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO HT-R518. You'll find the answers to all your questions on the ONKYO HT-R518 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Instruction manual ONKYO HT-R518

ONKYO®

AV Receiver

HT-R518

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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73 **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 230 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 [ON/STANDBY] 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. 3 Precautions--Continued 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.

Supplied Accessories Make sure you have the following accessories: **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. Remote controller and two batteries (AA/R6) Speaker setup microphone Indoor FM antenna IMPORTANT The plug is fitted with an appropriate fuse. If the fuse needs to be replaced, the replacement fuse must be approved by ASTA or BSI to BSI362 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. AM loop antenna 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 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 Speaker cable labels (Not supplied with the HT-S5105 Home Theater System.

) * 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. ONKYO EUROPE ELECTRONICS GmbH 4 Surround Left Surround Left Surround Right Surround Right Contents Important Safety Instructions

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...ered trademarks of HDMI Licensing, LLC. *5 Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. Audyssey 2EQ and Dynamic EQ are trademarks of Audyssey Laboratories. *6 Theater-Dimensional is a trademark of Onkyo Corporation. Connections · 3 Inputs and 1 Output · HDTV-Ready Component Video Switching (2 Inputs/1 Output) · 4 Digital Inputs (2 Optical/2 Coaxial/4 Assignable) · 3 S-Video Inputs/2 Outputs · Color-Coded 5.

I Multichannel Inputs (Ready for Dolby Digital and DTS Formats for High-Definition Discs) · Subwoofer Pre Outs HDMI*4 * Apple and iPod are trademarks of Apple Computer, Inc., registered in the U.S. and other countries. Miscellaneous · 40 AM/FM Presets · Audyssey 2EQ*5 Room Correction and Speaker Calibration · Audyssey Dynamic EQ*5 Loudness Correction · Crossover Adjustment (40/50/60/80/100/120/150/200Hz) · A/V Sync Control Function (up to 100 ms) · Theater Dimensional Virtual Surround Function*6 · Compatible with RI Dock for the iPod · Preprogrammed -Compatible Remote 6 Getting to Know the AV Receiver Front Panel 12 34 5 6 78 9 MASTER VOLUME ON/STANDBY TUNING PRESET STANDBY ENTER PURE AUDIO PURE AUDIO MULTI CH DVD VCR/DVR CBL/SAT AUX TAPE TUNER CD SETUP RETURN AUX INPUT PHONES CINEMA FILTER SETUP MIC VIDEO L AUDIO R LATE NIGHT TONE MOVIE/TV MUSIC GAME DISPLAY DIGITAL INPUT RT/PTY/TP MEMORY TUNING MODE LISTENING MODE CLEAR AV RECEIVER HT-R518 JK LM N OP Q RS TUV W X The actual front panel has various logos printed on it. They are not shown here for clarity. The page numbers in parentheses show where you can find the main explanation for each item. A ON/STANDBY button (33) Sets the AV receiver to On or Standby. J PHONES jack (41) This 1/4-inch phone jack is for connecting a standard pair of stereo headphones for private listening. B STANDBY indicator (33) Lights up when the AV receiver is on Standby and flashes while a signal is being received from the remote controller.

K PURE AUDIO button and indicator (48) Selects the Pure Audio listening mode. The indicator lights up when this mode is selected. Pressing this button again selects the previous listening mode. C Input selector buttons (39) Select the following input sources: DVD, VCR/DVR, CBL/SAT, AUX, TAPE, TUNER, CD. The [MULTI CH] button selects the multichannel DVD input.

L CINEMA FILTER button (58) Turns the Cinema Filter function on or off. M LATE NIGHT button (58) Turns the Late Night function on or off. D Remote-control sensor (12) Receives control signals from the remote controller. N TONE, , and + buttons (57) Used to adjust the tone (bass and treble). E Display See "Display" on page 8.

O MOVIE/TV button (48) Selects the listening modes intended for use with movies and TV. F SETUP button Opens and closes the setup menus. G TUNING, PRESET, Arrow, and ENTER buttons When AM or FM is selected, the TUNING [] [] buttons are used for radio tuning, and the PRESET [] [] buttons are used to select radio presets (see page 45). 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 MUSIC button (48) Selects the listening modes intended for use with music. Q GAME button (48) Selects the listening modes intended for use with video games.



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R DISPLAY button (41) Displays various information about the currently selected input source. H RETURN button Selects the previously displayed setup menu. S DIGITAL INPUT button (37) Used to assign digital inputs to input selectors.

I MASTER VOLUME control (39) Sets the volume of the AV receiver to Min, 1 through 79, or Max. T RT/PTY/TP button (47) Used with RDS (Radio Data System). See "Using RDS" on page 46. 7 Getting to Know the AV Receiver--Continued For detailed information, see the pages in parentheses. U MEMORY button (45) Used when storing or deleting radio presets. W SETUP MIC (34) The automatic speaker setup microphone connects here. V TUNING MODE button (43) Selects the Auto or Manual tuning mode for AM and FM radio. X AUX INPUT (28, 54) Used to connect a camcorder, game console, and so on. There are input jacks for composite video and analog audio. Display 12 3 4 5 1 SLEEP indicator (40) 6 7 For detailed information, see the pages in parentheses.

Lights up when the Sleep function has been set. 2 MUTING indicator (40) Flashes while the AV receiver is muted. 3 Listening mode and format indicators (52) Show the selected listening mode and audio input signal format. 4 Tuning indicators (43) FM STEREO (43): Lights up when tuned to a stereo FM station. RDS (46): Lights up when tuned to a radio station that supports RDS (Radio Data System).

AUTO (43): Lights up when Auto Tuning mode is selected for AM or FM radio. Goes off when Manual Tuning mode is selected. TUNED (43): Lights up when tuned to a radio station. 5 Message area Displays various information. 6 Audio input indicators Indicate the type of audio input that's selected as the audio source: MULTI CH, or HDMI.

7 Audyssey indicator (35) Lights up during automatic speaker setup. 8 Getting to Know the AV Receiver--Continued Rear Panel 12 3 IN 3 4 IN 2 5 IN 1 OUT 6 7 8 HDMI ASSIGNABLE SURR SPEAKERS FRONT SPEAKERS L Y L DIGITAL IN (DVD) COMPONENT VIDEO AM 1 COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DVR DVD MONITOR OUT V CENTER SPEAKER 2 R R ANTENNA FM 75 CR/PR (VCR/DVR) 1 S IN 2 IN 1 (DVD) ASSIGNABLE S IN OPTICAL (CD) OUT OUT IN OUT OUT IN IN IN FRONT SURR CENTER 2 IN IN PRE OUT ASSIGNABLE L L L SUB WOOFER R REMOTE CONTROL R SUB WOOFER R CD TAPE CBL/SAT VCR/DVR DVD 9 JK L MN O P F MONITOR OUT The S-Video or composite video jack should be connected to a video input on your TV or projector. A DIGITAL IN OPTICAL 1 and 2 These optical digital audio inputs are for connecting components with an optical digital audio output, such as a CD player or DVD player. They're assignable, which means you can assign each one to an input selector to suit your setup. See "Digital Input Setup" on page 37. G AM and FM ANTENNA The AM push terminals are for connecting an AM antenna. The FM jack is for connecting an FM antenna. B DIGITAL IN COAXIAL 1 and 2 These coaxial digital audio inputs are for connecting components with a coaxial digital audio output, such as a CD player or DVD player. They're assignable, which means you can assign each one to an input selector to suit your setup. See "Digital Input Setup" on page 37.

H FRONT L/R, CENTER, and SURR L/R SPEAKERS These terminal posts are for connecting the front speakers, center, and surround speakers. I C COMPONENT VIDEO IN 1 and 2 These RCA component video inputs are for connecting components with a component video output, such as a DVD player, DVD recorder, or DVR (digital video recorder). They're assignable, which means you can assign each one to an input selector to suit your setup. See "Component Video Input Setup" on page 37. REMOTE CONTROL This (Remote Interactive) jack can be connected to the jack on another -capable Onkyo component for remote and system control. To use , you must make an analog audio connection (RCA) between the AV receiver and the other component, even if they are connected digitally. J CD IN This analog audio input is for connecting a CD player's analog audio output. D COMPONENT VIDEO OUT This RCA component video output is for connecting a TV or projector with a component video input. K TAPE IN/OUT These analog audio input and output jacks are for connecting a recorder with an analog audio input and output, such as a cassette deck, MD recorder, etc. E HDMI IN 13 and OUT HDMI (High Definition Multimedia Interface) connections carry digital audio and digital video.

The HDMI inputs are for connecting components with an HDMI output, such as a DVD player, DVD recorder, or DVR (digital video recorder). They're assignable, which means you can assign each one to an input selector to suit your setup. See "HDMI Input Setup" on page 36. The HDMI outputs are for connecting a TV or projector with an HDMI input. L CBL/SAT IN A cable or satellite receiver can be connected here.

There are S-Video and composite video input jacks for connecting the video signal, and there are analog audio input jacks for connecting the audio signal. 9 Getting to Know the AV Receiver--Continued M VCR/DVR IN/OUT A video component, such as a VCR or DVR, can be connected here for recording and playback. There are S-Video and composite video input and output jacks for connecting the video signal, and there are analog audio input jacks for connecting the audio signal. N DVD IN This input is for connecting a DVD player. There are S-Video and composite video input jacks for connecting the video signal.

O DVD FRONT L/R, CENTER, SUBWOOFER, and SURR L/R This analog multichannel input is for connecting a component with a 5.1-channel analog audio output, such as a DVD player, DVD-Audio or SACD-capable player, or an MPEG decoder. P SUBWOOFER PRE OUT This analog audio output can be connected to a powered subwoofer. See pages 1332 for hookup information. 10 Remote Controller Controlling the AV Receiver C MULTI CH button (39) Selects the multichannel DVD input. To control the AV receiver, press the [RECEIVER] REMOTE MODE button to select Receiver mode. You can also use the remote controller to control your DVD player, CD player, and other components. See page 64 for more details. D Arrow []/[]/[] and ENTER buttons Used to select and adjust settings. E SETUP button Used to change settings.

F LISTENING MODE buttons (48) Used to select the listening modes. G DIMMER button (40) Adjusts the display brightness. A 2 3 RECEIVER 84 TUNER H DISPLAY button (41) Displays information about the current input source. I MUTING button (40) Mutes or unmutes the AV receiver. 9 J 5 14 5 J VOL []/[] button (39) Adjusts the volume of the AV receiver regardless of the currently selected remote controller mode.



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K RETURN button Returns to the previous display when changing settings. * *K L AUDIO* button (57) Used to change audio settings. *M SLEEP* button (40) Used with the Sleep function. * *SP A/B* is not used in this AV receiver. Controlling the tuner To control the AV receiver's tuner, press the [TUNER] (or [RECEIVER]) REMOTE MODE button.

You can select AM or FM by pressing the [TUNER] button repeatedly. 6 2 37 M 1 Arrow [] buttons Used to tune into radio stations. 2 Number buttons (44) Used to select AM and FM radio stations directly. 3 D.TUN button (44) Selects the Direct tuning mode.

4 DISPLAY button (44) Displays information about the band, frequency, preset number, and so on. For detailed information, see the pages in parentheses. 5 CH +/- button (45) Selects radio presets. Note: · An Onkyo cassette recorder connected via can also be controlled in Receiver mode (see page 71). A ON/STANDBY button (33) Sets the AV receiver to On or Standby.

B REMOTE MODE/INPUT SELECTOR buttons (39, 6672) Selects the remote controller modes and the input sources. 11 Remote Controller--Continued Installing the Batteries Using the Remote Controller When using the remote controller, point it toward the AV receiver's remote control sensor, as shown below. Remote control sensor STANDBY indicator AV receiver 1 To open the battery compartment, press the small lever and remove the cover. 30° 2 Insert the two supplied batteries (AA/R6) in accordance with the polarity diagram inside the battery compartment. 30° Approx. 16 ft. (5 m) 3 Replace the cover and push it shut. 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. 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. 12 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 Dolby Digital or DTS.

With analog or digital TV, you can enjoy Dolby Pro Logic II, DTS Neo:6, or Onkyo's original DSP listening modes. Front left and right speakers (SKF-518F)* These output the main 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. Surround left and right speakers (SKM-518S)* 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. Center speaker (SKC-518C)* 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 (preferably on top) facing forward at about ear level, or at the same height as the front left and right speakers. Subwoofer (SKW-518)* 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. 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 front 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. * Speaker supplied with the HT-S5105 Home Theater System. Corner position 1/3 of wall position 13 Connecting Your Speakers--Continued Speaker Configuration For 5.1-channel surround-sound playback, you need five speakers and a powered subwoofer. The following table shows which channels you should use based on the number of speakers you have. Number of speakers: Front left Front right Center Surround left Surround right 2 3 4 5 PRE OUT SUB WOOFER Connecting a Powered Subwoofer Using a suitable cable, connect the AV receiver's PRE OUT: SUBWOOFER to the input on your powered subwoofer.

If your subwoofer is unpowered and you're using an external amplifier, connect the PRE OUT: SUBWOOFER to the amp's input. Powered subwoofer HDMI ASSIGNABLE IN 3 IN 2 IN 1 OUT SURR SPEA L Y DIGITAL IN (DVD) COMPONENT VIDEO AM 1 COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DVR DVD MONITOR OUT V 2 R ANTENNA FM 75 CR/PR (VCR/DVR) 1 S IN 2 IN 1(DVD) ASSIGNABLE S IN OPTICAL (CD) OUT OUT IN OUT OUT IN IN IN FRONT SURR CENTER 2 IN IN PRE OUT ASSIGNABLE L L L SUB WOOFER R REMOTE CONTROL R SUB WOOFER R CD TAPE CBL/SAT VCR/DVR DVD No matter how many speakers you use, a powered subwoofer is recommended for a powerful and solid bass. To get the best from your surround-sound system, you must set the speaker settings. You can do this automatically (see page 34) or manually (see page 59). LINE INPUT Attaching the Speaker Labels Using Dipole Speakers You can use dipole speakers for the surround left and right speakers. Dipole speakers output the same sound in two directions. Dipole speakers typically have an arrow printed on them to indicate how they should be positioned. The surround left and right dipole speakers should be positioned so that their arrows point toward your TV or screen, as shown. Dipole speakers TV/screen (The speaker labels are not supplied with the HT-S5105 Home Theater System.



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) The AV receiver's positive (+) speaker terminals are all red.

(The negative (-) speaker terminals are all black.) Speaker Front left Front right Center Surround left Surround right Color White Red Green Blue Gray Normal speakers 1 TV/screen 1 4 2 3 4 2 3 5 6 5 6 The supplied speaker labels are 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. 1.

Subwoofer 2.

Front left speaker 3. Center speaker 4. Front right speaker 5. Surround left speaker 6. Surround right speaker 14 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. 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. Connecting the Speaker Cables 1 Strip about 5/8" (15 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. Unscrew the terminal. 5/8" (15 mm) 2 3 Fully insert the bare wire. 4 Screw the terminal tight. The following illustration shows which speaker should be connected to each pair of terminals. Front left speaker Front right speaker Surround right speaker Surround left speaker HDMI ASSIGNABLE IN 3 IN 2 IN 1 OUT SURR SPEAKERS FRONT SPEAKERS L Y L DIGITAL IN (DVD) COMPONENT VIDEO AM 1 COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DVR DVD MONITOR OUT V CENTER SPEAKER 2 R R ANTENNA FM 75 CR/PR (VCR/DVR) 1 S IN 2 IN 1 (DVD) ASSIGNABLE S IN OPTICAL (CD) OUT OUT IN OUT OUT IN IN IN FRONT SURR CENTER 2 IN IN PRE OUT ASSIGNABLE L L L SUB WOOFER R REMOTE CONTROL R SUB WOOFER R CD TAPE CBL/SAT VCR/DVR DVD Center speaker 15 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 AM 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 FM 75 FM antenna jack 2 Connecting the Indoor FM Antenna The supplied indoor FM antenna is for indoor use only. 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.

1 Attach the FM antenna, as shown. FM 75 Insert the plug fully into the jack. Push Insert wire Release 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. AM ANTENNA 2 Use thumbtacks or something similar to fix the FM antenna into position. 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 17). Thumbtacks, etc. 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 17). 16 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. Outdoor antenna Insulated antenna cable FM 75 AM loop antenna AM 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. ANTENNA 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) 17 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.



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Use red plugs to connect rightchannel 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 Jack HDMI Description HDMI Y Y PB PR CR/PR HDMI connections can carry uncompressed standard- or high-definition digital video and audio and offer the best picture and sound quality. 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 Y Component video cable PB PR CB/PB S-Video cable 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. Composite video cable V Audio Optical digital audio cable OPTICAL 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. Coaxial digital audio cable COAXIAL Analog audio cable (RCA) L R Multichannel analog audio cable (RCA) FRONT CENTER SURR SUBWOOFER MULTI CH This cable carries multichannel analog audio and is typically used to connect DVD players with a 5.

Ichannel analog audio output. Several standard analog audio cables can be used instead of a multichannel cable. Note: The AV receiver does not support SCART connections. 18 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. DVD player, etc. Speakers (see page 15 for hookup details) 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, you must make an audio connection and a video connection.

Video Connection Formats Video equipment can be connected to the AV receiver by using any one of the following video connection formats: composite video, S-Video, component video, or HDMI, 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 HDMI IN AV receiver MONITOR OUT Composite S-Video Component HDMI TV, projector, etc. Audio Connection Formats Audio equipment can be connected to the AV receiver by using any of the following audio connection formats: analog, optical, coaxial, analog multichannel, or HDMI.

When you connect audio equipment to an HDMI, OPTICAL, or COAXIAL input, you must assign that input to an input selector (see pages 36 and 37). Audio signals received by the HDMI IN jacks are output only by the HDMI OUT (pass thru). HDMI sources are not output by the speakers connected to the AV receiver. Audio Signal Flow Chart DVD player, etc. HDMI Multichannel Optical Coaxial Analog AV receiver HDMI Analog MD recorder, etc.

19 Connecting Your Components--Continued Connecting a TV or Projector Step 1: Video Connection Choose a video connection that matches your TV (A , B , or C), and then make the connection. Step 2: Audio Connection Choose an audio connection that matches your TV (a , b , or c), and then make the connection. To enjoy Dolby Digital and DTS, use connection b or 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 HDMI ASSIGNABLE IN 3 OUT SURR BACK SPEAKERS Bi-AMP for FRONT SPEAKERS L DIGITAL IN (DVD) COMPONENT VIDEO Y AM 1 b COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DVR DVD MONITOR OUT V C R 2 ANTENNA FM 75 CR/PR (VCR/DVR) 1 S IN 2 IN 1(DVD) ASSIGNABLE S IN c OPTICAL (CD) OUT OUT IN OUT OUT IN IN IN FRONT SURR CENTER SURR BACK 2 B L IN IN ZONE 2 LINE OUT PRE OU ASSIGNABLE L L L SUB WOOFER R R SUB WOOFER R R A REMOTE CONTROL CD TAPE CBL/SAT VCR/DVR DVD a L COAXIAL OUT OPTICAL OUT PR Y PB 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 23 and 25). 20 Connecting Your Components--Continued Connecting a DVD player Step 1: Video Connection Choose a video connection that matches your DVD player (A , B , or C), and then make the connection. You must connect the AV receiver to your TV with the same type of connection. Step 2: Audio Connection Choose an audio connection that matches your DVD player (a , b , or c), and then make the connection. To enjoy Dolby Digital and DTS, use connection b or 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 IN 1 DVD IN S DVD IN V DVD IN FRONT L/R DIGITAL IN COAXIAL 1 DIGITAL IN OPTICAL 1 Signal flow DVD player 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 HDMI ASSIGNABLE IN 3 IN 2 IN 1 OUT SURR BACK SPEAKERS Bi-AMP for FRONT SPEAKERS b L DIGITAL IN (DVD) COMPONENT VIDEO Y AM 1 COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DVR DVD MONITOR OUT V 2 R C c ANTENNA FM 75 CR/PR (VCR/DVR) 1 S IN 2 IN 1(DVD) ASSIGNABLE S IN OPTICAL (CD) OUT OUT IN OUT OUT IN IN IN FRONT SURR CENTER SURR BACK 2 B ZONE 2 LINE OUT PRE OUT IN IN ASSIGNABLE L L L L SUB WOOFER A REMOTE CONTROL R R SUB WOOFER R a R CD TAPE CBL/SAT VCR/DVR DVD 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 22.



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21 Connecting Your Components--Continued Hooking Up the Multichannel Input If your DVD player supports multichannel audio formats such as DVD-Audio and SACD, and it has a multichannel analog audio output, you can connect it to the AV receiver's multichannel input. Use a multichannel analog audio cable, or several normal audio cables, to connect the AV receiver's DVD IN FRONT L/R, CENTER, SURR L/R, and SUBWOOFER jacks to the 5.1-channel analog audio output on your DVD player. To select the multichannel input, see "Basic AV Receiver Operation" on page 39. To adjust the subwoofer sensitivity for the multichannel input, see "Using the Audio Adjust Settings" on page 5556. HDMI ASSIGNABLE IN 3 IN 2 IN 1 OUT SURR SPEAKERS FRONT SPEAKERS L Y L DIGITAL IN (DVD) COMPONENT VIDEO AM 1 COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DVR DVD MONITOR OUT V CENTER SPEAKER 2 R R ANTENNA FM 75 CR/PR (VCR/DVR) 1 S IN 2 IN 1 (DVD) ASSIGNABLE S IN OPTICAL (CD) OUT OUT IN OUT OUT IN IN IN FRONT SURR CENTER 2 IN IN PRE OUT ASSIGNABLE L L L SUB WOOFER R REMOTE CONTROL R SUB WOOFER R CD TAPE CBL/SAT VCR/DVR DVD FRONT SURR CENTER L R DVD SUB WOOFER L FRONT R L SURROUND R CENTER SUB WOOFER DVD player

22 Connecting Your Components--Continued Connecting a VCR or DVR for Playback Hint! With this hookup, you can use the tuner in your VCR or DVR to listen to your favorite TV programs via the AV receiver, which is useful if your TV has no audio outputs. Step 1: Video Connection Choose a video connection that matches your VCR or DVR (A , B , or C), and then make the connection. You must connect the AV receiver to your TV with the same type of connection. Step 2: Audio Connection Choose an audio connection that matches your VCR or DVR (a , b , or c), and then make the connection.

To enjoy Dolby Digital and DTS, use connection b or c . Connection A B C a b c AV receiver COMPONENT VIDEO IN 2 VCR/DVR IN S VCR/DVR IN V VCR/DVR IN L/R DIGITAL IN COAXIAL 2 DIGITAL IN OPTICAL 1 HDMI ASSIGNABLE Signal flow VCR or DVR Component video output S-Video output Composite video output Analog audio L/R output Digital coaxial output Digital optical output OUT Picture quality Best Better Standard IN 2 IN 1 IN 3 SURR BACK SPEAKERS Bi-AMP for FRONT SPEAKERS L Y DIGITAL IN (DVD) COMPONENT VIDEO AM 1 b COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DVR DVD MONITOR OUT V C R 2 ANTENNA FM 75 CR/PR (VCR/DVR) 1 S IN 2 IN 1 (DVD) ASSIGNABLE S IN c OPTICAL (CD) OUT OUT IN OUT OUT IN IN IN FRONT SURR CENTER SURR BACK 2 B L IN IN ZONE 2 LINE OUT PRE O ASSIGNABLE L L L SUB WOOF R REMOTE CONTROL R SUB WOOFER R R A 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 or DVR

23 Connecting Your Components--Continued Connecting a VCR or DVR for Recording Step 1: Video Connection Choose a video connection that matches your VCR or DVR (A or B), and then make the connection. The video source to be recorded must be connected to the AV receiver via the same type of connection. Step 2: Audio Connection Make the audio connection a . Connection A B a AV receiver VCR/DVR OUT S VCR/DVR OUT V VCR/DVR OUT L/R HDMI ASSIGNABLE Signal flow VCR or DVD recorder S-Video input Composite video input Audio L/R input OUT Picture quality Better Standard IN 2 IN 1 IN 3 SURR BACK SPEAKERS Bi-AMP for FRONT SPEAKERS SURR L DIGITAL IN (DVD) COMPONENT VIDEO Y AM 1 b COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DVR DVD MONITOR OUT V B R 2 ANTENNA FM 75 CR/PR (VCR/DVR) 1 S IN 2 IN 1 (DVD) ASSIGNABLE S IN c OPTICAL (CD) OUT OUT IN OUT OUT IN IN IN FRONT SURR CENTER SURR BACK 2 IN IN ZONE 2 LINE OUT A PRE OUT ASSIGNABLE L L L SUB WOOFER R REMOTE CONTROL R SUB WOOFER R R CD TAPE CBL/SAT VCR/DVR DVD a L AUDIO IN R S VIDEO IN VIDEO IN VCR or DVR Notes: · The AV receiver must be turned on for recording. Recording is not possible while it's on Standby. · If you want to record directly from your TV or another video source without going through the AV receiver, connect the audio and video outputs from your TV or other video component directly to the recording VCR/DVR's audio and video inputs. See the manuals supplied with your TV or VCR/DVR for details. · Video signals connected to composite video inputs can only be recorded via the VCR/DVR OUT V jack. So if your source TV or VCR is connected to a composite video input, the recording VCR/DVR must be connected to the VCR/DVR OUT V jack. Likewise, video signals connected to S-Video inputs can only be recorded via the VCR/DVR OUT S jack. So if your source TV or VCR is connected to an S-Video input, the recording VCR/DVR must be connected to the VCR/DVR OUT S jack.

24 Connecting Your Components--Continued Connecting a Satellite, Cable, or Terrestrial 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, which is useful if your TV has no audio outputs. Step 1: Video Connection Choose a video connection that matches the video source (A , B , or C), and then make the connection. You must connect the AV receiver to your TV with the same type of connection. Step 2: Audio Connection Choose an audio connection that matches the video source (a , b , or c), and then make the connection. · To enjoy Dolby Digital and DTS, use connection b or c . Connection A B C a b c AV receiver COMPONENT VIDEO IN 2 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 HDMI ASSIGNABLE IN 3 IN 2 IN 1 OUT SURR BACK SPEAKERS Bi-AMP for FRONT SPEAKERS L DIGITAL IN (DVD) COMPONENT VIDEO Y AM 1 b COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DVR DVD MONITOR OUT V C R 2 ANTENNA FM 75 CR/PR (VCR/DVR) 1 S IN 2 IN 1 (DVD) ASSIGNABLE S IN c OPTICAL (CD) OUT OUT IN OUT OUT IN IN IN FRONT SURR CENTER SURR BACK 2 B ZONE 2 LINE OUT PRE OU IN IN ASSIGNABLE L L L SUB WOOFER A REMOTE CONTROL R R SUB WOOFER R R 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.



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25 Connecting Your Components--Continued Connecting Components with HDMI About HDMI Designed to meet the increased demands of digital TV, HDMI (High Definition Multimedia Interface) is a new digital interface standard for connecting TVs, projectors, DVD players, set-top boxes, and other video components. Until now, several separate video and audio cables have been required to connect AV components.

With HDMI, a single cable can carry control signals, digital video, and up to eight channels of digital audio (2-channel PCM, multichannel digital audio, or multichannel PCM). The HDMI video stream (i.e., video signal) is compatible with DVI (Digital Visual Interface),*1 so TVs and displays with a DVI input can be connected by using an HDMI-to-DVI adapter cable. (This may not work with some TVs and displays, resulting in no picture.) The AV receiver uses HDCP (High-bandwidth Digital Content Protection), so only HDCP-compatible components will display a picture. The AV receiver's HDMI interface is based on the following standard: HT-R518: Pass-thru About Copyright Protection The AV receiver supports HDCP (High-bandwidth Digital Content Protection),*2 a copy-protection system for digital video signals. Other devices connected to the AV receiver via HDMI must also support HDCP. Use a commercially available HDMI cable (supplied with some components) to connect the AV receiver's HDMI OUT to the HDMI input on your TV or projector.

*1 DVI (Digital Visual Interface): The digital display interface standard set by the DDWG*3 in 1999.

*2 HDCP (High-bandwidth Digital Content Protection): The video encryption technology developed by Intel for HDMI/DVI. It's designed to protect video content and requires a HDCP-compatible device to display the encrypted video. *3 DDWG (Digital Display Working Group): Led by Intel, Compaq, Fujitsu, Hewlett Packard, IBM, NEC, and Silicon Image, this open industry group's objective is to address the industry's requirements for a digital connectivity specification for high-performance PCs and digital displays. 26 Connecting Your Components--Continued Making HDMI Connections 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, 2, or 3 jack. Step 3: Connect your HDMI-compatible player to an analog and/or digital audio input on the AV receiver. Step 4: Assign the HDMI IN. Turn on the AV receiver, and then assign the HDMI IN (see page 36). Audio Signals · Audio and video signals received via inputs other than the HDMI IN jacks are not output by the HDMI OUT.

· Audio and video signals received via the HDMI IN jacks are output only by the HDMI OUT. · 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. · 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. HDMI OUT HDMI IN TV Step 2 DVD player Step 3 IN 1 Step 1 HDMI ASSIGNABLE HDMI ASSIGNABLE IN 3 IN 2 IN 1 OUT DIGITAL IN (DVD) COMPONENT VIDEO Y AM 1 COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DVR DVD MONITOR OUT V 2 ANTENNA FM 75 CR/PR (VCR/DVR) 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. 1 S IN 2 IN 1(DVD) ASSIGNABLE S IN OPTICAL (CD) OUT OUT IN IN IN FRONT SURR CD CENTER SURR BACK 2 IN IN L ASSIGNABLE L L R REMOTE CONTROL R SUB WOOFER R Sound off Connect one or the other CD TAPE CBL/SAT VCR/DVR DVD Notes: · 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. · When listening to an HDMI component through the AV receiver, set the HDMI component so that its video can be seen on the TV screen (on the TV, select the input of the HDMI component connected to the AV receiver). If the TV power is off or the TV is set to another input source, this may result in no sound from the AV receiver or the sound may be cut off.

· 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. 27 Connecting Your

Components--Continued Connecting a Camcorder, Game Console, or Other Device Step 1: Make the video connection A. Step 2: Make the audio connection a. MASTER VOLUME a AUX INPUT L AUDIO R TUNING PRESET ENTER SETUP RETURN L AUDIO R OUT AUX INPUT VIDEO L AUDIO R SETUP MIC A AUX INPUT VIDEO VIDEO OUT Camcorder, game 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 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 2 (CBL/SAT) DIGITAL IN (DVD) HDMI ASSIGNABLE IN 3 IN 2 IN 1 OUT COMPONENT VIDEO Y IN CBL/SAT V VCR/DVR DVD MONITOR OUT 1 COAXIAL (CBL/SAT) L AM L R AUDIO OUTPUT CB/PB 2 c CR/PR ANTENNA R FM 75 OPTICAL 2 (CD) (VCR/DVR) 1 S S IN 2 IN 1(DVD) ASSIGNABLE OPTICAL (CD) OUT OUT IN IN IN OUT OUT IN IN IN FRONT SURR CD CENTER SURR BACK 2 IN IN L ASSIGNABLE L L R REMOTE CONTROL R a L R CBL/SAT VCR/DVR DVD SUB WOOFER CD TAPE R CD a R COAXIAL OUT L OPTICAL OUT AUDIO OUT CD player Turntable (MM) with built-in phono preamp · To connect the CD player digitally, use connection b or 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 Builtin A phono preamp is necessary to connect a turntable that doesn't have a phono preamp built-in.



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HDMI ASSIGNABLE 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. HDMI ASSIGNABLE IN 3 IN 2 IN 1 OUT DIGITAL IN IN 3 IN 2 IN 1 OUT (DVD) COMPONENT VIDEO Y 1 AM CB/PB COAXIAL Y (DVD) CBL/SAT V VCR/DVR DVD MONITOR OUT 1 AM CB/PB (CBL/SAT) 2 COAXIAL (CBL/SAT) CBL/SAT V VCR/DVR DVD MONITOR OUT (VCR/DVR) V CR/PR 1 ANTENNA FM 75 2 S S IN 2 IN 1 (DVD) ASSIGNABLE V CR/PR (VCR/DVR) ANTENNA FM 75 OPTICAL (CD) OUT OUT IN IN IN OUT OUT IN IN IN FRONT SURR CENTER SURR BACK 1 S S IN 2 IN 1 (DVD) ASSIGNABLE 2 IN OPTICAL (CD) OUT OUT IN ASSIGNABLE IN IN OUT OUT IN IN IN FRONT SURR CENTER SURR BACK L L L 2 IN ASSIGNABLE L L L REMOTE CONTROL R R R CD TAPE CBL/SAT VCR/DVR DVD SUB WOOFER R REMOTE CONTROL R R CD TAPE CBL/SAT VCR/DVR DVD SUB WOOFER IN IN L R CD AUDIO OUTPUT L R L AUDIO OUTPUT L AUDIO INPUT L R AUDIO OUTPUT L R Phono preamp R CD R 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 a Cassette, CDR, MiniDisc, or DAT Recorder Step 1: Choose a connection that matches your recorder (a , b , or c), and then make the connection. b COAXIAL HDMI ASSIGNABLE IN 3 IN 2 IN 1 OUT IN L a DIGITAL IN COMPONENT VIDEO Y 2 (CBL/SAT) AM (DVD) 1 COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DVR DVD MONITOR OUT V R ANTENNA FM 75 2 c TAPE OPTICAL 2 (CD) CR/PR (VCR/DVR) 1 S IN 2 IN 1 (DVD) ASSIGNABLE S IN OPTICAL (CD) OUT OUT IN OUT OUT IN IN IN FRONT SURR CENTER 2 a L L IN IN ASSIGNABLE L L R R REMOTE CONTROL R SUB WOOFER R TAPE CD TAPE CBL/SAT VCR/DVR DVD Connect one or the other These connections must be assigned (see page 37) L COAXIAL OUT OPTICAL OUT AUDIO IN R L AUDIO OUT R Cassette, CDR, MD, etc. · To connect the recorder digitally for playback, 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 2 Signal flow Cassette, CDR, MD, or DAT recorder Analog audio L/R output Analog audio L/R input Digital coaxial output Digital optical output 30 Connecting Your Components--Continued Connecting an RI Dock Not all iPod models output video. For information about which iPod models are supported by the RI Dock, see the RI Dock's instruction manual. If Your iPod Supports Video: Connect your RI Dock's audio output jacks to the AV receiver's CBL/SAT IN L/R jacks, and connect its video output jack to the AV receiver's CBL/SAT IN V jack. If Your iPod Doesn't Support Video: Connect your RI Dock's audio output jacks to the AV receiver's TAPE IN L/R jacks. IN L DIGITAL IN HDMI ASSIGNABLE IN 3 IN 2 IN 1 OUT COMPONENT VIDEO Y R TAPE (DVD) 1 COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/D 2 CR/PR (VCR/DVR) 1 S IN 2 IN 1 (DVD) ASSIGNABLE OPTICAL (CD) OUT OUT IN IN IN OUT OUT 2 IN ASSIGNABLE L L R REMOTE CONTROL R CD TAPE CBL/SAT VCR/D CBL/SAT V DIGITAL IN (DVD) HDMI ASSIGNABLE IN 3 IN 2 IN 1 OUT COMPONENT VIDEO Y 1 COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DV 2 CR/PR (VCR/DVR) 1 S IN 2 IN 1 (DVD) ASSIGNABLE IN L R OPTICAL (CD) OUT OUT IN IN IN OUT OUT 2 IN ASSIGNABLE L L R REMOTE CONTROL R CBL/SAT CD TAPE CBL/SAT VCR/DV If you have an Onkyo DS-A1 RI Dock, connect its video output jack to the AV receiver's CBL/SAT IN S jack.

Notes: · Enter the appropriate remote control code before using the AV receiver's remote controller for the first time (see page 65). · Connect the RI Dock to the AV receiver with a cable (see page 32). · Set the RI Dock's RI MODE switch to HDD or HDD/DOCK. · Set the AV receiver's Input Display to DOCK (see page 38). · See the RI Dock's instruction manual for more information. 31 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 (RCA). Step 2: Make the necessary connections (see illustration below). Step 3: If you're using an MD, CDR, or RI DOCK component, change the Input Display (see page 38). 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.

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 DVD IN (multichannel input), you'll need to press the [MULTI CH] button repeatedly and select Multich to hear all channels (see page 39), as the Direct Change function selects the DVD IN FRONT L/R jacks. Remote Control You can use the AV receiver's remote controller to control your other -capable Onkyo components. You must enter the appropriate remote control code first (see page 65). And remember to point the remote controller at the AV receiver and not the other component. 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 HDMI ASSIGNABLE IN 3 IN 2 IN 1 OUT L AM DIGITAL IN (DVD) COMPONENT VIDEO Y 1 R CD COAXIAL (CBL/SAT) CB/PB CBL/SAT V VCR/DVR DVD MONITOR OUT 2 V CR/PR (VCR/DVR) ANTENNA FM 75 1 S S IN 2 IN 1 (DVD) ASSIGNABLE OPTICAL (CD) OUT OUT IN IN IN OUT OUT IN IN IN FRONT SURR CENTER SURR BACK 2 IN ASSIGNABLE L L L FRONT L R REMOTE CONTROL R REMOTE CONTROL R SUB WOOFER CD TAPE CBL/SAT VCR/DVR DVD R DVD e.g., CD player R L ANALOG AUDIO OUT e.g., DVD player R L ANALOG AUDIO OUT Connecting the Power Cord · Before connecting the power cord, connect all your speakers and AV components.



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