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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO TX-SR705. You'll find the answers to all your questions on the ONKYO TX-SR705 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ONKYO TX-SR705
User guide ONKYO TX-SR705
Operating instructions ONKYO TX-SR705
Instructions for use ONKYO TX-SR705
Instruction manual ONKYO TX-SR705

ONKYO®

AV Receiver
TX-SR705

AV Amplifier
TX-SA705

Instruction Manual

Thank you for purchasing an Onkyo AV Receiver/ AV Amplifier. 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/ AV Amplifier. Please retain this manual for future reference.

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Manual abstract:

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 fluelike 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. For North American model 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 U.S. models FCC Information for User CAUTION: The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna.



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.... 110 7 Front & Rear Panels Front Panel TX-SR705 1 2 3 4 5 6 7 8 9 bk bl TX-SA705 bm bn bo bp bq br bs bt ckcl cmcnco cp bt ck cl The page numbers in parentheses show where you can find the main explanation for each item.

STANDBY/ON button (44) ZONE 2 indicator (101) This button is used to set the AV receiver/AV amplifier. This indicator lights up when Zone 2 is selected. Standby or On. Remote control sensor (14) STANDBY indicator (44) This sensor receives control signals from the remote. This indicator lights up when the AV receiver/AV controller. amplifier is in Standby mode, and it flashes while a Display signal is being received from the remote controller. See "Display" on page 10.

READY indicator (96) (not North American models) Enters Ready mode and lights up when the HDMI Power Control is set to Enable and the AV receiver/AV amplifier is on Standby. 8 Front & Rear Panels--Continued Input selector buttons (59) These buttons are used to select from the following input sources: MULTI CH, DVD, VCR/DVR, CBL/SAT, GAME/TV, AUX, TAPE, TUNER, CD, PHONO. The [MULTI CH] button selects the DVD analog multichannel input. Arrow/TUNING/PRESET & ENTER buttons When the AM or FM input source is selected, the TUNING [] [] buttons are used to tune the tuner, and the PRESET [] [] buttons are used to select radio presets (see page 63) (TX-SR705 only). When the onscreen setup menus are used, they work as arrow buttons and are used to select and set items. The [ENTER] button is also used with the onscreen setup menus. MASTER VOLUME control (59) and indicator This control is used to adjust the volume of the AV receiver/AV amplifier to -dB, 81 dB through +18 dB (relative display). PURE AUDIO button (66) Selects the Pure Audio listening mode. PHONES jack (61) This 1/4-inch phone jack is for connecting a standard pair of stereo headphones for private listening. ZONE 2/OFF buttons (101) The ZONE 2 button is used to select the input source for Zone 2.

The OFF button is used to turn off the output of Zone 2. ZONE 2 LEVEL button (102) This button is used to set the volume for Zone 2. TONE, [] & [+] buttons (60) These buttons are used to adjust the bass and treble. STEREO button (66) This button is used to select the Stereo listening mode. LISTENING MODE [] [] buttons (66) These buttons are used to select the listening modes. DISPLAY button (60) This button is used to display various information about the currently selected input source. DIGITAL INPUT button (51, 97) This button is used to assign the digital inputs and to specify the format of digital input signals. RT/PTY/TP or DIMMER button (65, 61) On the European model, this is the RT/PTY/TP button, and it's for RDS (Radio Data System). See "Using RDS (European models only)" on page 64. On other models, this is the DIMMER button, and it's used to adjust the display brightness.

MEMORY or Re-EQ button (63) This button is used when storing or deleting radio presets. On the TX-SA705, this button is used to turn the Re-EQ function on or off. TUNING MODE or LATE NIGHT button (62) This button is used to select the Auto or Manual tuning mode. On the TX-SA705, this button is used to turn the Late Night function on or off. SETUP button This button is used to access the onscreen setup menus that appear on the connected TV.

SETUP MIC jack (54) The included speaker setup microphone is connected here for automatic speaker setup. RETURN button This button is used to return to the previously displayed onscreen setup menu. AUX INPUT This input can be used to connect a camcorder, game console, and so on. There are jacks for optical digital audio, S-Video, composite video, and analog audio. 9 Front & Rear Panels--Continued Display 12 3 4 5 6 SLEEP indicator (61) This indicator lights up when the Sleep function has been set.

MUTING indicator (61) This indicator flashes or lights up while the AV receiver/AV amplifier is muted. HDMI indicator This indicator lights up when the HDMI audio signal input is used. Listening mode & format indicators These indicators show the currently selected listening mode and the format of digital input signals. 7 Tuning indicators (TX-SR705 only) FM STEREO (62): This indicator lights up when the AV receiver is tuned to a stereo FM station. RDS (European models only) (64): This indicator lights up when tuned to a radio station that supports RDS (Radio Data System). AUTO (62): This indicator lights up when the Auto Tuning mode is selected, and disappears when the Manual Tuning mode is selected. TUNED (62): This indicator lights up when the AV receiver is tuned into a radio station. Message area This area of the display shows various information about the currently selected source. Audyssey indicator (54) This indicator flashes during automatic speaker setup and stays on when the setup is complete. It also lights up when the Equalizer Settings are set to Audyssey.

The page numbers in parentheses show where you can find the main explanation for each item. 10 Front & Rear Panels--Continued Rear Panel TX-SR705 North American model 1 2 3 4 5 6 7 8 9 bk bl bm bobpbqbr bt ck cl cm cn TX-SR705 other than North American model co 7 8 9 cp bk bl cq cr bm cs bn 1 2 5 6 bo bpbqbr bt ck cl cm cn TX-SA705 co 8 9 cp bk bl cq cr bm bn cs 1 2 5 bo bpbbrsbt ck cl bqcm cn co cp cq cr 11 Front & Rear Panels--Continued The page numbers in parentheses show where you can find the main explanation for each item. DIGITAL OPTICAL IN 1, 2 and OUT AC INLET (not North American models) These optical digital audio inputs are for connecting The supplied power cord is connected here. The components with optical digital audio outputs, such other end of the power cord should be connected to as CD and DVD players. a suitable wall outlet. The optical digital audio output is for connecting a digital recorder with an optical digital input, such as a CD recorder.



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DIGITAL COAXIAL IN 1, 2 and 3 These coaxial digital audio inputs are for connecting components with coaxial digital audio outputs, such as CD and DVD players. **SIRIUS antenna** (North American models only) This jack is for connecting a SIRIUS Satellite Radio antenna (see the separate SIRIUS instructions). **XM antenna** (North American models only) This jack is for connecting an XM Minituner and Home Dock, sold separately (see the separate XM instructions).

HDMI IN 1, 2, 3, and OUT HDMI (High Definition Multimedia Interface) connections carry digital audio and digital video.

The HDMI inputs are for connecting components with HDMI outputs, such as DVD players. The HDMI output is for connecting a TV or projector with an HDMI input. **AM ANTENNA (TX-SR705 only) (25)** These push terminals are for connecting an AM antenna. **FM ANTENNA (TX-SR705 only) (25)** This jack is for connecting an FM antenna. **MONITOR OUT** The S-Video or composite video jack should be connected to a video input on your TV or projector.

FRONT, CENTER, SURR & SURR BACK SPEAKERS (23) These terminal posts are for connecting your front, center, surround, and surround back speakers.

RS232 This port is for connecting the AV receiver/AV amplifier to home automation equipment and external controllers. **ZONE 2 LINE OUT (99)** This analog audio output can be connected to a line input on an integrated amplifier in Zone 2. **ZONE 2 SPEAKERS (99)** These terminals are for connecting speakers in Zone 2. **PHONO IN** This audio input is for connecting a turntable.

REMOTE CONTROL This (Remote Interactive) jack can be connected to a jack on another Onkyo AV component. The AV receiver/AV amplifier's remote controller can then be used to control that component. To use, you must make an analog audio connection (RCA) between the AV receiver/AV amplifier and the other AV component, even if they are connected digitally. **COMPONENT VIDEO IN 1, 2, 3, and OUT** These component video inputs can be used to connect AV components with component video outputs, such as DVD players. This component video output can be used to connect a TV or projector with a component video input. **GND screw** This screw is for connecting a turntable's ground wire. **TUNER IN (TX-SA705 only) (41)** This analog audio input is for connecting a tuner's analog audio output. **CD IN** This analog audio input is for connecting a CD player's analog audio output. **TAPE IN/OUT** This analog audio input and output are for connecting a recorder with an analog audio input and output (cassette, Mini Disc, etc.).

GAME/TV IN Here you can connect a game console, TV, etc. Input jacks include S-Video, composite video, and analog audio. **CBL/SAT IN** Here you can connect a cable/satellite receiver, settop box, etc. Input jacks include S-Video, composite video, and analog audio. **VCR/DVR IN/OUT** Here you can connect a VCR or DVR (digital video recorder). Input and output jacks include S-Video, composite video, and analog audio. **12 Front & Rear Panels--Continued** **DVD IN** Here you can connect a DVD player. Input jacks include S-Video, composite video, and analog audio. You can connect a DVD player's 2-channel analog audio output or 7.1-channel analog audio output.

PRE OUT: FRONT L/R, CENTER, SUBWOOFER, SURR L/R, and SURR BACK L/R (22) This 5.1/7.1 multichannel analog audio output can be connected to the analog audio input on a multichannel power amplifier for when you want to use the AV receiver solely as a preamplifier. The **SUBWOOFER** jack is for connecting a powered subwoofer. **12V TRIGGER OUT** This output can be connected to the 12-volt trigger input on a component in Zone 2.

When Zone 2 is turned on on the AV receiver/AV amplifier, a 12volt trigger signal is output. **IR IN** A commercially available IR receiver can be connected to the **IR IN** jack, allowing you to control the AV receiver/AV amplifier while you're in Zone 2, or control it when it's out of sight, for example, installed in a cabinet. **AC OUTLET** (North American and European models only) These switched AC outlets can be used to supply power to other AV components. The type and number of outlets depends on the country in which you purchased your AV receiver. See pages 21-43 for connection information.

13 Remote Controller **Installing the Batteries** **Aiming the Remote Controller** To use the remote controller, point it at the AV receiver/AV amplifier's remote control sensor, as shown below. **Remote control sensor** AV receiver/AV amplifier **STANDBY indicator** 1 To open the battery compartment, press the small hollow and slide off the cover. 2 Insert the three supplied batteries (AA/R6) in accordance with the polarity diagram inside the battery compartment. Approx. 16 ft. (5 m) 3 Put the cover onto the remote controller and slide 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/AV amplifier 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/AV amplifier is installed close to equipment that uses infrared rays, the remote controller may not work reliably. · Don't put anything, such as a book, on the remote controller, because the buttons may be pressed inadvertently, thereby draining the batteries. · The remote controller may not work reliably if the AV receiver/AV amplifier 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/AV amplifier's remote control sensor. **14 Remote Controller--Continued** **Using the Remote Controller** As well as the AV receiver/AV amplifier, you can also use the remote controller to control your other AV components. The remote controller has a specific operating mode for use with each type of component. Modes are selected by using the **REMOTE MODE** buttons.

RECEIVER/TAPE Mode In **RECEIVER/TAPE** mode, you can control the AV receiver/AV amplifier and an Onkyo cassette recorder connected via . **DVD Mode** By default, you can control an Onkyo DVD player in this mode. By entering the appropriate remote control code, you can control components made by other manufacturers (see page 104). **CD/CDR/MD Mode** By default, you can control an Onkyo CD player in this mode. By entering the appropriate remote control code, you can control a CD player, MD recorder, or CD recorder made by another manufacturer (see page 104).

DOCK Mode This mode is for controlling an Apple iPod in an Onkyo RI Dock.



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By default, you can control an RI Dock that has a remote control sensor such as DS-A2. When operating an RI Dock with an connection, you can control it by entering the appropriate remote control code (see page 104). TV and VCR Modes With these modes, you can control a TV and VCR. You must enter the appropriate remote control code first (see page 104).

CABLE/SAT Mode In CABLE/SAT mode, you can control a cable or satellite TV receiver. You must enter the appropriate remote control code first (see page 104). **ZONE 2 Mode** This mode is for controlling Zone 2 (see page 101). **RECEIVER/TAPE Mode** RECEIVER/TAPE mode is used to control the AV receiver/AV amplifier. It can also be used to control an Onkyo cassette recorder connected via . To set the remote controller to RECEIVER/TAPE mode, press the [RECEIVER] REMOTE MODE button. 1 2 3 bn 4 5 6 7 8 9 1 bn bo bp bq br bs bk bl bt ck 1 2 Use the REMOTE MODE buttons to select a mode. Use the buttons supported by that mode to control the component. RECEIVER/TAPE mode: see right column DVD mode: see page 17 CD/MD/CDR mode: see page 18 DOCK mode: see page 19 TV, VCR, SAT/CABLE modes: see page 106 Note: Some of the remote controller operations described in this manual may not work as expected with other components. 15 Remote Controller--Continued For detailed information, see the pages in parentheses.

STANDBY button (44) Sets the AV receiver/AV amplifier to Standby. **ON button (44)** Turns on the AV receiver/AV amplifier. **INPUT SELECTOR buttons (59)** Used to select the input sources. **MACRO buttons (108)** Used with the Macro function. **DIMMER button (61)** Adjusts the display brightness. **Arrow []/[]/[]/[] and ENTER buttons** Used to select and adjust settings. **CH +/- button (63)** Used to select radio presets (TX-SR705). Used to select radio presets for a connected tuner (TX-SA705). **SETUP button** Used to change settings. **DISPLAY button (60)** Displays information about the current input source.

LISTENING MODE buttons (66) Used to select the listening modes. The [STEREO], [SURR], and LISTENING MODE []/[] buttons can be used at any time, regardless of the currently selected remote controller mode. **TEST TONE, CH SEL, LEVEL-, and LEVEL+ buttons (75, 81)** Used to adjust the level of each speaker. **LIGHT button** Turns the remote controller's illuminated buttons on or off. **D.**

TUN button (TX-SR705 only) (62) Selects the Direct tuning mode for radio. **REMOTE MODE buttons (15)** Used to select the remote controller modes. When you press a button, the REMOTE MODE button for the currently selected mode lights up. **SLEEP button (61)** Used with the Sleep function. **VOL []/[] button (59)** Adjusts the volume of the AV receiver/AV amplifier regardless of the currently selected remote controller mode.

RETURN button Returns to the previous display when changing settings. **MUTING button (61)** Mutes or unmutes the AV receiver/AV amplifier. **Re-EQ button (75)** Turns the Re-EQ function on or off. **L NIGHT button (75)** Turns the Late Night function on or off. **TAPE mode** On twin cassette decks, only Deck B can be controlled. **Previous and Next []/[] buttons** The Previous [] button selects the previous track. During playback it selects the beginning of the current track. The Next [] button selects the next track. Depending on how they were recorded, the Previous and Next []/[] buttons may not work properly with some cassette tapes. **Play [] button** Starts playback.

Rewind and Fast Forward []/[] buttons The Rewind [] button starts rewind. The Fast Forward [] button starts fast forward. **Reverse Play [] button** Starts reverse playback. **Stop [] button** Stops playback. **REC [] button** Starts recording. 16 Remote Controller--Continued **DVD Mode** To set the remote controller to DVD mode, press the [DVD] REMOTE MODE button. **STANDBY button** Sets the DVD player to Standby. **ON button** Turns on the DVD player. **Number buttons** Used to enter title, chapter, and track numbers and times for locating specific points. 1 2 3 bn **DVD TOP MENU button** Selects a DVD's top menu. **Arrow []/[]/[]/[] and ENTER buttons** Used to navigate menus and select items. **DISC +/- button** Selects discs on a DVD changer. **SETUP button** Used to access the DVD player's settings. **DISPLAY button** Displays information about the current disc, title, chapter, or track, including elapsed time, remaining time, total time, and so on. **Playback buttons** From left to right: Previous, Play, Next, Rewind, Pause, Stop, Fast Forward, Slow Reverse, and Slow Forward. **REPEAT button** Used with the repeat playback functions. 4 5 6 7 8 9 bo bp **AUDIO button** Selects foreign language soundtracks and audio formats (e.g., Dolby Digital or DTS). **OPEN/CLOSE [] button** Opens and closes the disc tray.

bq bk bl bm br bs bt **CLEAR button** Cancels functions and clears entered numbers. **MENU button** Displays a DVD's menu. **RETURN button** Exits the DVD player's onscreen setup menus. **RANDOM button** Used with the random playback function. **PLAY MODE button** Selects play modes on components with selectable play modes. **SUBTITLE button** Selects subtitles. **VIDEO OFF button** Turns off the internal video circuitry, eliminating any possibility of interference. 17 Remote Controller--Continued **CD/MD/CDR Modes** To control an Onkyo CD player, MD recorder, or CD recorder, or a CD or MD player/recorder made by another manufacturer, press the [CD] REMOTE MODE button to select the CD/MD/CDR remote controller mode. In order to control an Onkyo MD recorder or CD recorder, or a component made by another manufacturer, you must first enter the appropriate remote control code (see page 104). **STANDBY button** Sets the component to Standby.

ON button Set the component to On or Standby. **Number buttons** Used to enter track numbers and times for locating specific points. **Arrow []/[]/[]/[] and ENTER buttons** Used with some components. **DISC +/- button** Selects discs on a CD changer. **DISPLAY button** Displays information about the current disc or track, including elapsed time, remaining time, total time, and so on. **Playback buttons** From left to right: Previous, Play, Next, Rewind, Pause, Stop, and Fast Forward. 1 2 3 bl **REC [] button** Starts recording. **REPEAT button** Used with the repeat playback functions. **OPEN/CLOSE [] button** Opens or closes the disc tray or ejects the MiniDisc. **CLEAR button** Cancels functions and clears entered numbers.

RETURN button Used with some components. 4 5 6 7 8 9 bk bn bo bm **RANDOM button** Used with the random playback function. **PLAY MODE button** Select play modes on components with selectable play modes. 18 Remote Controller--Continued **DOCK Mode** Dock mode is for controlling an Apple iPod in an Onkyo RI Dock. When Using an RI Dock: · Connect the RI Dock to the TAPE IN or GAME/TV IN L/R jacks. · Set the RI Dock's RI MODE switch to HDD or HDD/DOCK. · Set the AV receiver/AV amplifier's Input Display to DOCK (see page 50). · When operating a DS-A1 RI Dock, enter the appropriate remote control code for the first time (see page 104).



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· See to the RI Dock's instruction manual for more information. To set the remote controller to DOCK mode, press the [DOCK] REMOTE MODE button. STANDBY button Turns off the iPod. ON button* Turns on the iPod. TOP MENU button Works as a Mode button when used with a DS-A2 RI Dock. Arrow []/[] and ENTER buttons* Used to navigate menus and select items. ALBUM +/- button* Selects the next or previous album. DISPLAY button* Turns on the backlight for 30 seconds. Previous [] button Restarts the current song. Press it twice to select the previous song. Pause [] button Pauses playback. (With 3rd generation iPods, it works as a Play/Pause button.

) Rewind [] button Press and hold to rewind. Playlist []/[] buttons* Used to select the previous or next playlist on the iPod. REPEAT button* Used with the repeat function. MENU button* Used to access menus. Play [] button Starts playback. If the component is off, it will turn on automatically. (With 3rd generation iPods, this button works as a Play/Pause button.) 1 2 3 4 5 6 7 8 9 bk bl bm Next [] button Selects the next song. Stop [] button Stops playback and displays a menu. bn bo bp bq br bs Fast Forward [] button Press and hold to fast forward.

RANDOM button* Used with the shuffle function. PLAY MODE button Used to select play modes on components with selectable play modes. Works as a Resume button when used with a DS-A2 RI Dock. * Buttons marked with an asterisk (*) are not supported by 3rd generation iPods. 19 About Home Theater Enjoying Home Theater Thanks to the AV receiver/AV amplifier'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.

With DVDs you can enjoy DTS and Dolby Digital. With analog and digital TV you can enjoy Dolby Pro Logic IIx or Onkyo's own DSP surround listening modes. You can also enjoy THX Surround EX (THX-certified THX speaker system recommended). Surround back left and right speakers These speakers are necessary to enjoy Dolby Digital EX, DTS-ES Matrix, DTS-ES Discrete, THX Surround EX, etc. They enhance the realism of surround sound and improve sound localization behind the listener.

Position them behind the listener about 23 feet (60 100 cm) above ear level. THX recommends that they be placed as close as possible in order to make advantage of their proprietary ASA (Advanced Speaker Array) technology. If this condition is not possible, adjust the Surr Back Sp Spacing setting via the THX Audio Setup. (See page 83.) 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 equidistant from the TV. Angle them inward 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. In 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. Corner 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. In general, a good bass sound can be obtained by installing the subwoofer in a front corner, or at one-third the width of 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. 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 (60/100 cm) above ear level. Ideally they should be equidistant from the listener. 20 Connecting the AV Receiver/AV Amplifier 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 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) Composite video (Yellow) (Yellow) Right! Analog audio Left (white) Right (red) Optical Digital Jacks The AV receiver/AV amplifier'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 & Jacks Video Cable Jack HDMI Description HDMI 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 sockets slightly differently). S-Video separates the luminance and color signals and provides better picture quality than composite video.

Component video cable S-Video cable Composite video cable V Composite video is commonly used on TVs, VCRs, and other video equipment. Use only dedicated composite video cables. Audio Cable Optical digital audio cable Jack Description Offers the best sound quality and allows you to enjoy surround sound (e.g., Dolby Digital, DTS). The audio quality is the same as for coaxial. Offers the best sound quality and allows you to enjoy surround sound (e.g.

, Dolby Digital, DTS). The audio quality is the same as for optical. L Coaxial digital audio cable Analog audio cable (RCA) R 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 it's typically used to connect DVD players with a 7.1-channel analog audio output. Several standard analog audio cables can be used instead of a multichannel cable. Multichannel analog audio cable (RCA) Note: The AV receiver/AV amplifier does not support SCART plugs. 21 Connecting the AV Receiver/AV Amplifier--Continued Connecting Your Speakers Speaker Configuration For the best surround sound experience, you should connect seven speakers and a powered subwoofer.



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The following table indicates the channels you should use depending on the number of speakers that you have.

Number of speakers: Front left Front right Center Surround left Surround right Surround back left Surround back right 2 3 4 5 6 7 LINE INPUT LINE INPUT Connecting a Powered Subwoofer Using a suitable cable, connect the AV receiver/AV amplifier's PRE OUT SUBWOOFER to an input on your powered subwoofer, as shown. If your subwoofer is unpowered and you're using an external amplifier, connect the PRE OUT SUBWOOFER to an input on the amp. Powered subwoofer *If you're using only one surround back speaker, connect it to the left (L) SURR BACK SPEAKERS terminals. Attaching the Speaker Labels The AV receiver/AV amplifier's positive (+) speaker terminals are color-coded for ease of identification (the negative (-) speaker terminals are all black). Speaker terminal Front left, Zone 2 left Front right, Zone 2 right Center Surround left Surround right Surround back left Surround back right Color White Red Green Blue Gray Brown Tan No matter how many speakers you use, a powered subwoofer is recommended for a really powerful and solid bass.

To get the best from your surround sound system, you need to set the speaker settings by using the supplied speaker setup microphone (see page 54). Using Dipole Speakers You can use dipole speakers for the surround left and right and surround back 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 the TV/screen, while the surround back left and right dipole speakers should be positioned so that their arrows point toward each other, as shown.

Dipole speakers TV/screen The supplied speaker cable labels are also color-coded and you should attach them to the positive (+) side of each speaker cable in accordance with the above table. Then all you need to do is to match the color of each label to the corresponding speaker terminal. Normal speakers 1 TV/screen 1 4 2 3 4 2 3 Using the Speaker Terminal Tool The supplied speaker terminal tool makes it easy to tighten and loosen the speaker terminals. If you are using banana plugs, to ensure optimum sound quality, tighten the speaker terminal before inserting the banana plug. (In Europe, using banana plugs to connect speakers to an audio amplifier is prohibited.) 5 6 5 6 7 8 7 8 1. Subwoofer 2. Front left speaker 3. Center speaker 4. Front right speaker 5.

Surround left speaker 6. Surround right speaker 7. Surround back left speaker 8. Surround back right speaker 22 Connecting the AV Receiver/AV Amplifier--Continued Speaker Connection Precautions Read the following before connecting your speakers: · North American models: Only connect speakers with an impedance of 6 ohms or higher. 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 protection circuit may be activated. · Other models: You can connect speakers with an impedance of between 4 and 16 ohms. If the impedance of any of the connected speakers is 4 ohms or more, but less than 6 ohms, be sure to set the minimum speaker impedance to "4 ohms" (see page 46). 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 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 only to positive (+) terminals, and negative (-) terminals only to 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. · If you use 4 or 5 speakers, connect each of the two surround speakers to the SURR SPEAKERS terminals.

Do not connect them to the SURR BACK SPEAKERS terminals. · Be careful not to short the positive and negative wires. Doing so may damage the AV receiver/AV amplifier. · Make sure the metal core of the wire does not have contact with the AV receiver/AV amplifier's rear panel. Doing so may damage the AV receiver/AV amplifier.

· Don't connect more than one cable to each speaker terminal. Doing so may damage the AV receiver/AV amplifier. · Don't connect one 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 wires. 4 Screw the terminal tight. The following illustration shows which speaker should be connected to each pair of terminals. If you're using only one surround back speaker, connect it to the left (L) SURR BACK SPEAKERS terminals. Surround

Surround back left back right speaker speaker Surround left speaker Surround right speaker Front right speaker Front left speaker Center speaker 23 Connecting the AV Receiver/AV Amplifier--Continued Bi-amping the Front Speakers The FRONT SPEAKERS L/R and SURR BACK SPEAKERS L/R terminal posts can be used with front speakers and surround back speakers respectively, or biamped to provide separate tweeter and woofer feeds for a pair of front speakers that support bi-amping, providing improved bass and treble performance.

· When bi-amping is used, the AV receiver/AV amplifier is able to drive up to 5.1 speakers in the main room. · For bi-amping, the FRONT SPEAKERS L/R terminal posts connect to the front speakers' tweeter terminals. And the SURR BACK SPEAKERS L/R terminal posts connect to the front speakers' woofer terminals. · Once you've completed the bi-amping connections shown below and turned on the AV receiver/AV amplifier, you must set the Speakers Type setting to Bi-Amp to enable biamping (see page 46). Important: · When making the bi-amping connections, be sure to remove the jumper bars that link the speakers' tweeter (high) and woofer (low) terminals. Low range (Woofer) High range (Tweeter) Right speaker Left speaker Bi-amping Speaker Hookup 1

Connect the AV receiver/AV amplifier's FRONT SPEAKERS R positive (+) terminal to the right speaker's positive (+) tweeter (high) terminal. And connect the AV receiver/AV amplifier's FRONT SPEAKERS R negative (-) terminal to the right speaker's negative (-) tweeter (high) terminal. Connect the AV receiver/AV amplifier's SURR BACK SPEAKERS R positive (+) terminal to the right speaker's positive (+) woofer (low) terminal.



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And connect the AV receiver/AV amplifier's SURR BACK SPEAKERS R negative (-) terminal to the right speaker's negative (-) woofer (low) terminal. Connect the AV receiver/AV amplifier's FRONT SPEAKERS L positive (+) terminal to the left speaker's positive (+) tweeter (high) terminal. And connect the AV receiver/AV amplifier's FRONT SPEAKERS R positive (+) terminal to the right speaker's positive (+) tweeter (high) terminal. Connect the AV receiver/AV amplifier's SURR BACK SPEAKERS L positive (+) terminal to the left speaker's positive (+) woofer (low) terminal. And connect the AV receiver/AV amplifier's SURR BACK SPEAKERS R negative (-) terminal to the right speaker's negative (-) woofer (low) terminal. 2 3 4 24 Connecting the AV Receiver/AV Amplifier--Continued Connecting Antenna (TX-SR705 only) 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 connector If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead (see page 26). 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. Connecting the Indoor FM Antenna The supplied indoor FM antenna is for indoor use only.

2 1 Attach the FM antenna, as shown. North American models FM 75 Connect both wires of the AM loop antenna to the AM antenna 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. Other models Push FM 75 Insert wire Release 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. 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 26). Thumbtacks, etc. Caution: Be careful that you don't injure yourself when using thumbtacks. 25 Connecting the AV Receiver/AV Amplifier--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 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 outside horizontally, 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) 26 Connecting the AV Receiver/AV Amplifier--Continued Connecting Both Audio & Video By connecting both the audio and video outputs of your DVD player and other AV components to the AV receiver/AV amplifier, you can select both the audio and video simultaneously simply by selecting the appropriate input source on the AV receiver/AV amplifier. : Signal Flow Video Audio Video Audio TV, projector, etc. DVD player, etc. Speakers (see page 23 for connection information) Which Connections Should I Use? The AV receiver/AV amplifier 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 two connections--one for audio, one for video. Video Connection Formats Video equipment can be connected to the AV receiver/AV amplifier 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. The AV receiver/AV amplifier can upconvert and downconvert between video formats, depending on the HDMI Monitor setting, which generally determines whether video signals are upconverted for the component video output or the HDMI output. For optimal video performance, THX recommends that video signals pass through the system without upconversion (e.g., component video input through to component video output). It's also recommended that you set the Immediate Display preference to Off (page 93). HDMI Monitor Setting Set to Yes With the HDMI Monitor setting set to Yes (see page 47), video input signals flow through the AV receiver/AV amplifier as shown, with composite video, S-Video, and component video sources all being upconverted for the HDMI output. Use this setting if you connect the AV receiver/AV amplifier's HDMI OUT to your TV.

The composite video, S-Video, and component video outputs pass through their respective input signals as they are. DVD player, etc. Video Signal Flow Chart Composite S-Video Component HDMI IN AV receiver/ AV amplifier MONITOR OUT Composite S-Video Component HDMI TV, projector, etc. 27 Connecting the AV Receiver/AV Amplifier--Continued HDMI Monitor Setting Set to No With the HDMI Monitor setting set to No (see page 47), video input signals flow through the AV receiver/AV amplifier as shown, with composite video and S-Video sources being upconverted for the component video output.



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Use this setting if you connect the AV receiver/AV amplifier's COMPONENT VIDEO OUT to your TV. Composite video is upconverted to S-Video and S-Video is downconverted to composite video. Note that these conversions only apply to the MONITOR OUT V and S outputs, not the VCR/DVR OUT V and S outputs. The composite video, S-Video, and component video outputs pass through their respective input signals as they are. DVD player, etc. Video Signal Flow Chart Composite S-Video Component HDMI IN AV receiver/AV amplifier MONITOR OUT Composite S-Video Component HDMI TV, projector, etc.

Audio Connection Formats Audio equipment can be connected to the AV receiver/AV amplifier by using any of the following audio connection formats: analog, optical, coaxial, analog multichannel, or HDMI. When choosing a connection format, bear in mind that the AV receiver/AV amplifier does not convert digital input signals for analog line outputs and vice versa. For example, audio signals connected to an optical or coaxial digital input are not output by the analog TAPE OUT. DVD player, etc. Audio Signal Flow Chart Analog Multichannel Optical Coaxial HDMI IN AV receiver/AV amplifier OUT Analog Optical HDMI MD recorder, etc.

28 Connecting the AV Receiver/AV Amplifier--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. · With connection a , you can listen to and record audio from your TV and listen in Zone 2. · 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/AV amplifier COMPONENT VIDEO OUT MONITOR OUT S MONITOR OUT V GAME/TV IN L/R DIGITAL COAXIAL IN 3 (CBL/SAT) DIGITAL OPTICAL IN 1 (GAME/TV) 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 b c C B a 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 b must be assigned (see page 51) 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/AV amplifier and use its tuner to listen to TV programs through the AV receiver/AV amplifier (see pages 32 and 34).

29 Connecting the AV Receiver/AV Amplifier--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/AV amplifier to your TV via 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. · With connection a , you can listen to and record audio from a DVD and listen in Zone 2. · 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/AV amplifier COMPONENT VIDEO IN 1 (DVD) DVD IN S DVD IN V DVD IN FRONT L/R DIGITAL COAXIAL IN 1 (DVD) DIGITAL OPTICAL IN 1 (GAME/TV) 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 b c C B a A L COAXIAL OUT OPTICAL OUT PR Y PB COMPONENT VIDEO OUT AUDIO OUT R S VIDEO OUT VIDEO OUT Connect one or the other Connection c must be assigned (see page 51) DVD player To connect a DVD player or DVD-Audio/SACD-capable player with a multichannel analog audio output, see page 31.

30 Connecting the AV Receiver/AV Amplifier--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/AV amplifier's multichannel DVD input.

Use a multichannel analog audio cable, or several normal audio cables, to connect the AV receiver/AV amplifier's DVD FRONT L/R, CENTER, SURR L/R, SURR BACK L/R, and SUBWOOFER jacks to the 7.1-channel analog audio output on your DVD player. If your DVD player has a 5.1-channel analog audio output, don't connect anything to the AV receiver/AV amplifier's SURR BACK L/R jacks. 7.1 ch 5.1 ch FRONT L SURR CENTER SURR BACK L R SUBWOOFER DVD R L FRONT R L SURROUND R CENTER SUB WOOFER L SURR BACK R DVD player

31 Connecting the AV Receiver/AV Amplifier--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/AV amplifier, useful if your TV has no audio outputs. Step 1: Video Connection Choose a video connection that matches your VCR or DVD recorder (A , B , or C), and then make the connection. You must connect the AV receiver/AV amplifier to your TV via the same type of connection.

Step 2: Audio Connection Choose an audio connection that matches your VCR or DVD recorder (a , b , or c), and then make the connection. · With connection a , you can listen to the VCR or DVD recorder even in Zone 2. · To enjoy Dolby Digital and DTS, use connection b or c . (To listen in Zone 2 as well, use a and b , or a and c .) Connection A B C a b c .

AV receiver/AV amplifier COMPONENT VIDEO IN 2 VCR/DVR IN S VCR/DVR IN V VCR/DVR IN L/R DIGITAL COAXIAL IN 2 (VCR/DVR) DIGITAL OPTICAL IN 1 (GAME/TV) 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 b c C B Connection A must be assigned (see page 49) a A L COAXIAL OUT OPTICAL OUT PR Y PB COMPONENT VIDEO OUT AUDIO OUT R S VIDEO OUT VIDEO OUT Connect one or the other Connection c must be assigned (see page 51) VCR, DVD recorder

32 Connecting the AV Receiver/AV Amplifier--Continued Connecting a VCR or DVD Recorder for Recording Step 1: Video Connection Choose a video connection that matches your VCR or DVD recorder (A or B), and then make the connection. The video source to be recorded must be connected to the AV receiver/AV amplifier via the same type of connection. Step 2: Audio Connection Choose an audio connection that matches your VCR or DVD recorder (a or b), and then make the connection. Connection A B a b AV receiver/AV amplifier VCR/DVR OUT S VCR/DVR OUT V VCR/DVR OUT L/R DIGITAL OPTICAL OUT Signal flow VCR or DVD recorder S-Video input Composite video input Audio L/R input Digital optical input Picture quality Better Standard B C A B a L OPTICAL IN AUDIO IN R S VIDEO IN VIDEO IN VCR, DVD recorder Notes: · The AV receiver/AV amplifier must be turned on for recording.



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