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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO TX-SR304E. You'll find the answers to all your questions on the ONKYO TX-SR304E 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-SR304E**  
**User guide ONKYO TX-SR304E**  
**Operating instructions ONKYO TX-SR304E**  
**Instructions for use ONKYO TX-SR304E**  
**Instruction manual ONKYO TX-SR304E**

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**ONKYO®**

**AV Receiver**

***TX-SR304***  
***TX-SR304E***  
***TX-SR404***  
***TX-SR8440***

**Instruction Manual**

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

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**Manual abstract:**

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.. 58 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. @@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. @@@@Only use attachments/accessories specified by the manufacturer. @@When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

S3125A Unplug this apparatus during lightning storms or when unused for long periods of time. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 15. Damage Requiring Service Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions: A.

When the power-supply cord or plug is damaged, B. If liquid has been spilled, or objects have fallen into the apparatus, C. If the apparatus has been exposed to rain or water, D. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation, E.

If the apparatus has been dropped or damaged in any way, and F. When the apparatus exhibits a distinct change in performance this indicates a need for service. 16. Object and Liquid Entry Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus. Don't put candles or other burning objects on top of this unit. 17. Batteries Always consider the environmental issues and follow local regulations when disposing of batteries. 18. If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.

Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape. 9. 10. 11. 12. 13. 14. 2 Precautions 1. Recording Copyright--Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder.

2. AC Fuse--The AC fuse inside the unit is not userserviceable. If you cannot turn on the unit, contact your Onkyo dealer. 3. Care--Occasionally you should dust the unit all over with a soft cloth.

For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth.

Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering. 4. Power WARNING BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230240 V, 50 Hz or AC 120 V, 60 Hz). Some models have a voltage selector switch for compatibility with power systems around the world. Before you

plug in such a model, make sure that the voltage selector is set to the correct voltage for your area. 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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· Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. For Canadian Models NOTE: THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003. For models having a power cord with a polarized plug: CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Modèle pour les Canadien REMARQUE: CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA. Sur les modèles dont la fiche est polarisée: ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND. 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. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. Remote controller & two batteries (AA/R6) (American type shown) Indoor FM antenna (Connector type varies from country to country.) IMPORTANT The plug is fitted with an appropriate fuse. If the fuse needs to be replaced, the replacement fuse must approved by ASTA or BSI to BS1362 and have the same ampere rating as that indicated on the plug. Check for the ASTA mark or the BSI mark on the body of the fuse. If the power cord's plug is not suitable for your socket outlets, cut it off and fit a suitable plug.

Fit a suitable fuse in the plug. 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 Center Center Surround Right Surround Right Center Center Front Left Front Left SP-B / Zone 2 Left Front Right Front Right SP-B / Zone 2 Right SP-B / Zone 2 Right Surround Left Surround Left 1 2 3 Speaker Cable Speaker cable labels \* In catalogs and on packaging, the letter at the end of the product name indicates the color. Specifications and operation are the same regardless of color. For European Models Declaration of Conformity We, ONKYO EUROPE ELECTRONICS GmbH LIEGNITZERSTRASSE 6, 82194 GROEBENZELL, GERMANY declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN60065, EN55013, EN55020 and EN61000-3-2, -3-3. GROEBENZELL, GERMANY K. MIYAGI ONKYO EUROPE ELECTRONICS GmbH Memory Backup The AV receiver uses a battery-less memory backup system in order to retain radio presets and other settings when it's unplugged or in the case of a power failure. Although no batteries are required, the AV receiver must be plugged into an AC outlet in order to charge the backup system. Once it has been charged, the AV receiver will retain the settings for several weeks, although this depends on the environment and will be shorter in humid climates. 4 Surround Right Surround Right Features Amplification · 65 W/channel into 6 ohms (20 Hz-20 kHz, 0.7%, FTC) · 90 W/channel into 6 ohms (1 kHz, DIN) · 110 W/channel into 6 ohms (JEITA) · Optimum Gain Volume Circuitry · Massive High Current Power Supply (H.C.P.S.) transformer Contents Introduction Important Safety Instructions..

2 Precautions .....

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.....5 Front & Rear Panels ...

.dels only)" on page 40. D STEREO button (45) This button is used to select the Stereo listening mode. E LISTENING MODE [ ]/[ ] buttons (45) These buttons are used to select the listening modes. 6 Front & Rear Panels--Continued J MEMORY button (39) This button is used when storing or deleting radio presets. N PHONES jack (42) This 1/4-inch phone jack is for connecting a standard pair of stereo headphones for prih terminals are for connecting speaker set A. M SUBWOOFER PRE OUT A powered subwoofer can be connected here. H This (Remote Interactive) jack can be connected to the jack on another Onkyo component. The AV receiver'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 and the other component, even if they are connected digitally.

Note: can only be used with Onkyo components. See pages 1731 for connection information. 8 Before Using the AV receiver Installing the Batteries Using the Remote Controller To use the remote controller, point it at the AV receiver's remote control sensor, as shown below. Remote control sensor AV receiver

*STANDBY indicator 1 To open the battery compartment, press the small hollow and slide open the cover. 2 Insert the two supplied batteries (AA/R6) in accordance with the polarity diagram inside the battery compartment.*

*Approx. 16 ft. (5 m) 3 Slide the cover shut. Notes: · The remote controller may not work reliably if the AV receiver is subjected to bright light, such as direct sunlight or inverter-type fluorescent lights. Keep this in mind when installing.*

*· If another remote controller of the same type is used in the same room, or the AV receiver is installed close to equipment that uses infrared rays, the remote controller may not work reliably. · Don't put anything, 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 is installed in a rack behind colored glass doors. Keep this in mind when installing. · The remote controller will not work if there's an obstacle between it and the AV receiver's remote control sensor. Notes: · If the remote controller doesn't work reliably, try replacing the batteries. · Don't mix new and old batteries or different types of batteries. · If you intend not to use the remote controller for a long time, remove the batteries to prevent damage from leakage or corrosion.*



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· Expired batteries should be removed as soon as possible to prevent damage from leakage or corrosion. 9 Remote Controller How to Use the Remote Controller Including the AV receiver, the remote controller can be used to control up to six different components.

The remote controller has a specific operating mode for use with each type of component. Modes are selected by using the five REMOTE MODE buttons. RECEIVER/TAPE Mode In RECEIVER/TAPE mode, you can control the AV receiver and an Onkyo cassette recorder connected via . DVD, CD, MD, CDR & HDD Modes With these modes, you can control an Onkyo DVD player and CD/MD/CDR/HDD player/recorder. RECEIVER Mode RECEIVER mode is used to control the AV receiver. To set the remote controller to RECEIVER mode, press the [RECEIVER] REMOTE MODE button. ON/STANDBY RECEIVER REMOTE MODE RECEIVER TAPE A 2 1 V1 RECEIVER TAPE DVD TAPE INPUT SELECTOR 2 V2 3 V3 CD DVD CD MD 3 4 7 TAPE 5 MULTI CH 6 DVD MD L 8 TUNER 9 CD CDR +10 0 DIMMER CLR SLEEP HDD 4 CDR HDD --/-- M VOL 5 GUIDE TOP MENU DISC ALBUM CH N O PREVIOUS MENU 1 2 Use the REMOTE MODE buttons to select a mode. Use the buttons supported by that mode to control the component. RECEIVER mode: see page 10 DVD mode: see page 12 CD mode: see page 13 MD/CDR mode: see page 14 HDD mode: see page 15 TAPE mode: see page 16 6 SP A / B MUTING 7 PLAYLIST ENTER PLAYLIST 8 RETURN SETUP P 9 J K LISTENING MODE STEREO SURROUND AUDIO SUBTITLE RANDOM REPEAT TEST TONE CH SEL PLAY MODE DISPLAY L NIGHT CINE FLTR LEVELLEVEL+ Note: Some of the remote controller operations described in this manual may not work as expected with other components. Q R RC-645S 10 Remote Controller--Continued For detailed information, see the pages in parentheses.

O MUTING button (43) This button is used to mute the AV receiver. A ON/STANDBY button (32) This button is used to set the AV receiver to On or Standby. B INPUT SELECTOR buttons (36) These buttons are used to select the input sources. P SETUP button (34, 48, 51) This button is used to access various settings. Q CINE FLTR button (49) This button is used to set the CinemaFILTER function.

C MULTI CH button (37) This button is used to select the multichannel DVD input. R L NIGHT button (49) This button is used to set the Late Night function. D DIMMER button (42) This button is used to adjust the display brightness. E CH +/- button (39) This button is used to select radio presets. F SP A/B button (36) This button is used to turn speaker sets A and B on or off.

G Arrow [ ]/[ ]/[ ] & ENTER buttons (34, 48, 51) These buttons are used to select and adjust settings. H RETURN button (34, 48, 51) This button is used to return to the previous display when changing settings. I LISTENING MODE buttons (45) These buttons can be used to select listening modes regardless of the currently selected remote controller mode. STEREO button This button selects the Stereo listening mode. SURROUND button This button selects the Dolby and DTS listening modes. [ ]/[ ] buttons These buttons can be used to select any of the available listening modes. J TEST TONE, CH SEL, LEVEL- & LEVEL+ buttons (35, 44, 53) These buttons are used to adjust the level of each speaker. K DISPLAY button (37) This button is used to display various information about the currently selected input source. L REMOTE MODE buttons (10) These buttons are used to select the remote controller modes. When you press a button on the remote controller, the REMOTE MODE button for the currently selected mode lights up.

M SLEEP button (43) This button is used to set the Sleep function. N VOL [ ]/[ ] button (36) This button can be used to adjust the volume of the AV receiver regardless of the currently selected remote controller mode. 11 Remote Controller--Continued DVD Mode To select your DVD player as the input source, press: RECEIVER A ON/STANDBY button This button sets the DVD player to On or Standby. B Number buttons These buttons are used to enter title, chapter, and track numbers and to enter times for locating specific points in time. 6 DVD C DISC +/- button This button selects discs on a DVD changer. D TOP MENU button To set the remote controller to DVD mode, press the [DVD] REMOTE MODE button. This button is used to select a DVD's top menu. E Arrow [ ]/[ ]/[ ] & ENTER buttons These buttons are used to navigate DVD menus and the DVD player's onscreen setup menus. F RETURN button ON/STANDBY REMOTE MODE 1 2 1 V1 RECEIVER TAPE DVD DVD This button is used to exit the DVD player's onscreen setup menu and to restart menu playback. INPUT SELECTOR G Playback buttons From left to right: Pause, Play, Stop, Fast Reverse, Fast Forward, Previous, and Next. 2 V2 3 V3 CD 4 7 TAPE 5 MULTI CH 6 DVD MD H SUBTITLE button This button is used to select subtitles. 8 TUNER 9 CD CDR I AUDIO button HDD +10 --/-- 0 DIMMER CLR SLEEP K This button selects foreign language soundtracks and audio formats (e.g., Dolby Digital or DTS). 3 GUIDE TOP MENU DISC ALBUM CH VOL J DISPLAY button This button is used to display information about the current disc, title, chapter, or track on the DVD player's display, including the elapsed time, remaining time, total time, and so on.

PREVIOUS MENU 4 SP A / B MUTING L ENTER PLAYLIST PLAYLIST 5 6 RETURN K CLR button M SETUP This button is used to cancel functions and to clear entered numbers. L MENU button This button is used to display a DVD's menu. 7 LISTENING MODE M SETUP button This button is used to access the DVD player's onscreen setup menus. STEREO SURROUND 8 9 J AUDIO SUBTITLE RANDOM REPEAT TEST TONE CH SEL PLAY MODE DISPLAY L NIGHT CINE FLTR LEVELLEVEL+ N O P N RANDOM button This button is used with the random playback function. O REPEAT button This button is used to set the repeat playback functions.

P PLAY MODE button RC-645S This button is used to select play modes on a component with selectable play modes. 12 Remote Controller--Continued CD Mode To select your CD player as the input source, press: RECEIVER A ON/STANDBY button This button sets the CD player to On or Standby. B Number buttons These buttons are used to enter track numbers and to enter times for locating specific points in time. 9 CD C DISC +/- button This button selects discs on a CD changer. D Playback buttons To set the remote controller to CD mode, press the [CD] REMOTE MODE button. From left to right: Pause, Play, Stop, Fast Reverse, Fast Forward, Previous and Next. E DISPLAY button This button is used to display information about the current disc or track on the CD player's display, including the elapsed time, remaining time, total time, and so on.



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ON/STANDBY REMOTE MODE F CLR button This button is used to cancel functions and to clear entered numbers. CD 1 2 1 V1 RECEIVER TAPE DVD INPUT SELECTOR 2 V2 3 V3 CD G RANDOM button This button is used with the random playback function. 4 7 TAPE 5 MULTI CH 6 DVD MD 8 TUNER 9 CD CDR H REPEAT button +10 --/-- 0 DIMMER CLR SLEEP HDD 6 This button is used to set the repeat playback functions.

The VOL [ ] and LISTENING MODE buttons work the same as for RECEIVER mode. 3 GUIDE TOP MENU DISC ALBUM CH VOL PREVIOUS MENU SP A / B MUTING ENTER PLAYLIST PLAYLIST RETURN SETUP 4 LISTENING MODE STEREO SURROUND AUDIO SUBTITLE RANDOM REPEAT TEST TONE CH SEL PLAY MODE DISPLAY L NIGHT CINE FLTR LEVELLEVEL+ 7 8 5 RC-645S 13 Remote Controller--Continued MD, & CDR Mode To select your MiniDisc or CD recorder as the input source, press: RECEIVER A ON/STANDBY button This button sets the MD/CD recorder to On or Standby.

B Number buttons These buttons are used to enter track numbers and to enter times for locating specific points in time. The [+10] button is used to enter numbers above 10. 7 TAPE MD or CD recorder C Playback buttons \* You must change the Input Display (see page 33). From left to right: Pause, Play, Stop, Fast Reverse, Fast Forward, Previous and Next. D DISPLAY button To set the remote controller to MD or CDR mode, press the [MD] or [CDR] REMOTE MODE button. This button is used to display information about the current disc or track on the MD/CD recorder's display, including the elapsed time, remaining time, total time, and so on. E CLR button ON/STANDBY 1 2 1 V1 REMOTE MODE RECEIVER TAPE DVD This button is used to cancel functions and to clear entered numbers. INPUT SELECTOR F RANDOM button CD 2 V2 3 V3 MD This button is used with the random playback function.

4 7 TAPE 5 MULTI CH 6 DVD MD G REPEAT button CDR 8 TUNER 9 CD CDR This button is used to set the repeat playback functions. +10 --/-- 0 DIMMER CLR SLEEP HDD 5 VOL H PLAY MODE button This button is used to select play modes on a component with selectable play modes. DISC ALBUM CH GUIDE TOP MENU PREVIOUS MENU The VOL [ ] and LISTENING MODE buttons work the same as for RECEIVER mode. SP A / B MUTING ENTER PLAYLIST PLAYLIST RETURN SETUP 3 LISTENING MODE STEREO SURROUND AUDIO SUBTITLE RANDOM REPEAT TEST TONE CH SEL PLAY MODE DISPLAY L NIGHT CINE FLTR LEVELLEVEL+ 6 7 8 4 RC-645S 14 Remote Controller--Continued HDD Mode To select your HDD component as the input source, press: RECEIVER A ON/STANDBY button This button sets the HDD component to On or Standby. B ALBUM +/- button This button selects the next or previous album on an HDD component.

7 TAPE or 3 V3 C PLAYLIST [ \* You must change the Input Display (see page 33). ]/ [ ] buttons These buttons select the previous or next playlist on the HDD component. From left to right: Pause, Play, Stop, Fast Reverse, Fast Forward, Previous and Next. D Playback buttons To set the remote controller to HDD mode, press the [HDD] REMOTE MODE button. E DISPLAY button This button turns on the HDD component's display for 30 seconds.

F MENU, ENTER, and Up and Down [ ]/ [ ] ON/STANDBY REMOTE MODE 1 1 V1 buttons MENU button: [ ]/ [ ] RECEIVER TAPE DVD Displays the HDD component's menu. INPUT SELECTOR 2 V2 3 V3 CD ] buttons: Select options on the HDD component's menu. Confirms the selection on the HDD component's menu. 4 7 TAPE 5 MULTI CH 6 DVD MD ENTER button: 8 TUNER 9 CD CDR G RANDOM button HDD +10 --/-- 0 DIMMER CLR SLEEP HDD This button is used with the random playback function. H REPEAT button 2 GUIDE TOP MENU DISC ALBUM CH VOL This button is used to set the repeat playback functions. PREVIOUS MENU 6 3 SP A / B MUTING ENTER PLAYLIST PLAYLIST RETURN SETUP 4 LISTENING MODE STEREO SURROUND AUDIO SUBTITLE RANDOM REPEAT TEST TONE CH SEL PLAY MODE LEVELLEVEL+ 7 8 5 DISPLAY L NIGHT CINE FLTR RC-645S 15 Remote Controller--Continued TAPE Mode To select your Cassette deck as the input source, press: RECEIVER A Play [ ] button This button is used to start playback. B Stop [ ] button This button is used to stop playback. C Reverse Play [ ] button This button is used to start reverse playback. 7 TAPE D Rewind & FF [ ]/ [ ] buttons The Rewind [ ] button is used to start rewind. The FF [ ] button is used to start fast forward.

TAPE mode is used to control an Onkyo cassette recorder connected to the AV receiver via . To set the remote controller to TAPE mode, press the [RECEIVER] REMOTE MODE button. For twin cassette decks, only deck B can be controlled. ON/STANDBY RECEIVER REMOTE MODE RECEIVER TAPE DVD TAPE INPUT SELECTOR 1 V1 2 V2 3 V3 CD 4 7 TAPE 5 MULTI CH 6 DVD MD 8 TUNER 9 CD CDR +10 --/-- 0 DIMMER CLR SLEEP HDD DISC ALBUM CH VOL GUIDE TOP MENU PREVIOUS MENU SP A / B MUTING ENTER PLAYLIST PLAYLIST RETURN SETUP A B C D LISTENING MODE STEREO SURROUND AUDIO SUBTITLE RANDOM REPEAT TEST TONE CH SEL PLAY MODE DISPLAY L NIGHT CINE FLTR LEVELLEVEL+ RC-645S 16 Enjoying Home Theater Speaker Sets A and B You can use two sets of speakers with the AV receiver: speaker set A and speaker set B. Speaker set A should be used in your main listening room for up to 5.1-channel playback. \*While speaker set B is on, speaker set A is reduced to 2.1-channel playback. Speaker set B can be used in another room and offers 2-channel stereo playback. Speaker set A AV receiver A SPEAKERS B Speaker set B On Off Indicator Output Set A: 2.

1 channels Set B: 2 channels Set A: 5.1 channels Set B: 2 channels No sound Remote controller On A A B B or SP A / B Off On Off Speaker Set A: Main Room Front left and right speakers These output the overall sound. Their role in a home theater is to provide a solid anchor for the sound image. They should be positioned facing the listener at about ear level, and equally spaced from the TV. Angle them inward.

Center speaker This speaker enhances the front left and right speakers, making sound movements distinct and providing a full sound image. For movies it's used mainly for dialog. Position it close to your TV facing forward at about ear level, or at the same height as the front left and right speakers. \* While speaker set B is on, this speaker outputs no sound. Corner Subwoofer The subwoofer handles the bass sounds of the LFE (Low-Frequency Effects) channel.

In general, a good bass sound can be obtained by installing the subwoofer in a front corner, or at one-third the way along the wall, as shown.



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*1/3 wall length Speaker Set B: Sub Room Surround left and right speakers These speakers are used for precise sound positioning and to add realistic ambience. Position them at the sides of the listener, or slightly behind, about 23 feet (60100 cm) above ear level. Ideally they should be equally spaced from the listener. \* While speaker set B is on, these speakers output no sound. 17 Connecting Your Speakers Speaker Configuration For the best surround-sound experience, you should connect five speakers and a powered subwoofer. The following table shows which channels you should use based on the number of speakers that you have. Number of speakers: Front left Front right Center Surround left Surround right 2 3 4 5 Speaker Connection Precautions Read the following before connecting your speakers: · You can 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. · Disconnect the power cord from the wall outlet before making any connections.*

*· Read the instructions supplied with your speakers. · Pay close attention to speaker wiring polarity. In other words, connect positive (+) terminals to only positive (+) terminals, and negative (-) terminals to only negative (-) terminals. If you get them the wrong way around, the sound will be out of phase and will sound unnatural. · Unnecessarily long, or very thin speaker cables may affect the sound quality and should be avoided. · Be careful not to short the positive and negative wires. Doing so may damage the AV receiver. · Don't connect more than one cable to each speaker terminal. Doing so may damage the AV receiver. · Don't connect one speaker to several terminals.*

*No matter how many speakers you use, a powered subwoofer is recommended for a really powerful and solid bass. Before using the AV receiver, you must specify which speakers are connected and their sizes (see page 34). To get the very best from your surround-sound system, you should also specify the distance between the listener and each individual speaker so that the sound from each speaker arrives at the listener's ears at the same time (see page 52). In addition, you should set the level of each individual speaker to achieve an equal balance (see page 52.) Attaching the Speaker Labels The AV receiver's positive (+) speaker terminals are color-coded for ease of identification.*

*(The negative (-) speaker terminals are all black.) Speaker terminal Front left Front right Center Surround left Surround right Color White Red Green Blue Gray The supplied speaker labels are also color-coded and you should attach them to the positive (+) side of each speaker cable in accordance with the above table. All you need to do then is to match the color of each label to the corresponding speaker terminal. 18 Connecting Your Speakers--Continued Connecting Speaker Connecting a Powered Subwoofer 3/8" (10 mm) 1 Strip 3/8" (10 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. While pressing the lever, insert the wire into the hole, and then release the lever.*

*Make sure that the terminals are gripping the bare wires, not the insulation. Using a suitable cable, connect the AV receiver's SUBWOOFER PRE OUT to an input on your powered subwoofer, as shown. If your subwoofer is unpowered and you're using an external amplifier, connect the SUBWOOFER PRE OUT to an input on the amplifier. Powered subwoofer 2 LINE INPUT LINE INPUT Note: Make sure the cable is plugged all the way. The following illustration shows which speaker should be connected to each pair of terminals. Speaker Set A Center speaker Front right speaker Front left speaker Surround right speaker Surround left speaker Front right speaker Front left speaker Speaker Set B 19 Connecting Antenna This section explains how to connect the supplied indoor FM antenna and AM loop antenna, and how to connect commercially available outdoor FM and AM antennas. The AV receiver won't pick up any radio signals without any antenna connected, so you must connect the antenna to use the tuner. AM antenna push terminals FM antenna jack 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. 2 Connecting the Indoor FM Antenna The supplied indoor FM antenna is for indoor use only.*

*1 Attach the FM antenna, as shown. American Model 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. Push Insert wire Release Insert the plug fully into the jack. Other Models Insert the plug fully into the jack. 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 21). 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 Fully extend the antenna and point it in various directions to find the best reception. Secure it in that position with thumbtacks or something similar. If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead (see page 21). 20 Connecting Antenna--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 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.*



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· 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) 21 Connecting Your Components About AV Connections · Before making any AV connections, read the manuals supplied with your other AV components. · Don't connect the power cord until you've completed and double-checked all AV connections. AV Connection Color Coding RCA-type AV connections are usually color coded: red, white, and yellow. Use red plugs to connect right-channel audio inputs and outputs (typically labeled "R"). Use white plugs to connect left-channel audio inputs and outputs (typically labeled "L").

And use yellow plugs to connect composite video inputs and outputs. Left (white) Right (red) (Yellow) Composite video Analog audio Left (white) Right (red) (Yellow) Right! Optical Digital Jacks The AV receiver's optical digital jack has shutter-type cover 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 Y Y PB PB Y Jack Description Component video cable PB PR PR PR Component video separates the luminance (Y) and color difference signals (PR, PB), providing the best picture quality. (Some TV manufacturers label their component video jacks slightly differently.) VIDEO Composite video cable 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 OPTICAL 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. This cable carries analog audio. It's the most common connection format for analog audio and can be found on virtually all AV components.

This cable carries multichannel analog audio and is typically used to connect DVD players with a 5.1 channel analog audio output. Several standard analog audio cables can be used instead of a multichannel cable. Coaxial digital audio cable COAXIAL Analog audio cable (RCA) L R Multichannel analog audio cable (RCA) Note: The AV receiver does not support SCART plugs. 22 Connecting Your Components--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, you can select both the audio and video simultaneously simply by selecting the appropriate input source on the AV receiver. : Signal Flow Video Audio Video Audio TV, projector, etc. Speakers (see pages 18, 19 for connection information) DVD player, etc. Which Connections Should I Use? The AV receiver supports several connection formats for compatibility with a wide range of AV equipment. The format you choose will depend on the formats supported by your other components. Use the following sections as a guide.

For video components, such as a DVD player, you must make two connections--one for audio, one for video. Video Connection Formats Video equipment can be connected to the AV receiver using one of the following video connection formats: composite video, or component video, the latter offering the best picture quality. When choosing a connection format, bear in mind that the AV receiver doesn't convert between formats, so only outputs of the same format as the input will output the signal. For example, if you connect your DVD player to the COMPONENT VIDEO DVD IN, a video signal will be output by the COMPONENT OUT, but not by any composite video outputs. Video Input/Output Diagram DVD player, etc. Output IN AV Receiver OUT Input TV, projector, etc. Composite Component Composite Component Audio Connection Formats Audio equipment can be connected to the AV receiver using the following audio connection formats: analog, optical, coaxial, and multichannel. When choosing a connection format, bear in mind that the AV receiver doesn't convert between formats. For example, audio signals connected to an OPTICAL or COAXIAL digital input are not output by the analog TAPE OUT, so if you want to record from, for example, your CD player, in addition to connecting it to a digital input, you must also connect it to the analog CD IN. Audio Input/Output Diagram for Recording CD player, etc.

Output IN AV Receiver OUT Input Cassette recorder, etc. Analog Optical Coaxial Analog Multichannel Optical Coaxial Analog Multichannel 23 Connecting Your Components--Continued Connecting a DVD Player Step 1: Video Connection (DVD Player to AV Receiver to TV) A If your TV has component video input jacks, connect your DVD player to the AV receiver's COMPONENT VIDEO DVD IN jacks. And connect the AV receiver's COMPONENT VIDEO OUT jacks to your TV. This will provide better picture quality than connection B. B If your TV doesn't have component video input jacks, connect your DVD player to the AV receiver's DVD IN VIDEO jack.

And connect the AV receiver's MONITOR OUT VIDEO jack to your TV. COMPONENT VIDEO IN Y PB PR VIDEO IN TV, projector, etc. A B B AV receiver A B : Signal Flow Y PB PR COMPONENT VIDEO OUT VIDEO OUT DVD player 24 Connecting Your Components--Continued Step 2: Audio Connection a If your DVD player has a coaxial digital audio output jack, connect it to the AV receiver's DIGITAL IN COAXIAL jack. You can enjoy Dolby and DTS listening modes with this connection. b If your DVD player has an optical digital audio output jack instead of coaxial one, connect it to the AV receiver's DIGITAL IN OPTICAL 1 or 2 jack, and set the DIGITAL INPUT assignment to OPT1 or OPT2 (see page 33).

Coaxial connections perform the same as optical ones. c Optionally, connecting your DVD player's audio out L/R jacks to the AV receiver's DVD IN FRONT L/R jacks will allow you to record audio from your DVD player.



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Note: If your DVD player has main L/R output jacks and multichannel L/R output jacks, use the main L/R output jacks. --Multichannel Audio Connection-- d  
If your DVD player has analog multichannel output jacks, connect them to the AV receiver's DVD IN FRONT, SURROUND, CENTER, and SUBWOOFER  
jacks. Use a multichannel analog cable or several normal audio cables. You can enjoy DVD-Audio or SACD with this connection. AV receiver b a c d d c d d  
L OPTICAL OUT COAXIAL OUT AUDIO OUT R L FRONT R L SURROUND R SUB WOOFER CENTER Multichannel Connection DVD player : Signal  
Flow 25 Connecting Your Components--Continued Connecting a VCR Connecting a VCR for Playback Step 1: Video Connection (VCR to AV Receiver to TV)  
A Connect your VCR's video output jack to the AV receiver's VIDEO 1 IN jack and connect the AV receiver's MONITOR OUT jack to your TV's video input  
jack. B If your VCR and TV have component video jacks, connect the VCR's component video output jacks to the AV receiver's COMPONENT VIDEO VIDEO  
1 IN jacks, and connect the AV receiver's COMPONENT VIDEO OUT jacks to your TV's component video in jacks. This offers better picture quality than  
composite video. C Connect a TV antenna output jack (e.

g., RF OUT) to your VCR's antenna input, and connect your VCR's antenna output jack to your TV's antenna input jack. Step 2: Audio Connection a Connect  
your VCR's audio output jacks to the AV receiver's VIDEO 1 IN L/R jacks. COMPONENT VIDEO IN Y PB PR VIDEO IN TV, projector, etc. Antenna input  
(e.g., RF IN) B A Coaxial feed C AV receiver Coaxial feed from TV antenna or set-top box B A a C L Y PB PR COMPONENT VIDEO OUT VIDEO OUT  
AUDIO OUT R Antenna input (e.g., RF IN) VCR, DVD recorder Antenna output (e.g.

, RF OUT) : Signal Flow 26 Connecting Your Components--Continued Connecting a VCR for Recording Step 1: Video Connection A Connect the AV  
receiver's VIDEO 1 OUT jack to your VCR's video input jack. Step 2: Audio Connection a Connect the AV receiver's VIDEO 1 OUT L/R jacks to your VCR's  
audio input jacks. AV receiver : Signal Flow A VIDEO IN L AUDIO IN R a VCR, DVD recorder Connecting a Camcorder, Games Console, or Other Device  
Step 1: Video Connection A Connect your camcorder's video output jack to the AV receiver's VIDEO 3 IN jack. Step 2: Audio Connection a Connect your  
camcorder's audio output jack to the AV receiver's VIDEO 3 IN L/R jacks. AV receiver VIDEO IN TV, projector, etc.

L AUDIO OUT R VIDEO OUT a A : Signal Flow Camcorder, games console, etc. 27 Connecting Your Components--Continued Connecting a Satellite, Cable,  
Set-top Box, or Other Video Source Step 1: Video Connection A Connect your set-top box's video output jack to the AV receiver's VIDEO 2 IN jack and  
connect the AV receiver's MONITOR OUT jack to your TV's video input jack. B If your VCR and TV have component video jacks, connect your set-top box's  
component video output to the AV receiver's COMPONENT VIDEO VIDEO 2 IN jacks, and connect the AV receiver's COMPONENT VIDEO OUT jacks to  
your TV's component video in jacks. This offers better picture quality than composite video. C Connect a coaxial feed from a TV antenna to your set-top box's  
antenna input jack (e.

g., RF IN), and connect your set-top box's antenna output jack (e.g., RF OUT) to your TV's antenna input jack. Step 2: Audio Connection a Connect your set-  
top box's audio output jack to the AV receiver's VIDEO 2 IN L/R jacks. b If your set-top box has an optical digital audio output jack, connect it to the AV  
receiver's DIGITAL IN OPTICAL 1 jack. You can enjoy Dolby and DTS listening modes with this connection. c If your set-top box has a coaxial digital audio  
output jack instead of an optical one, connect it to the AV receiver's DIGITAL IN COAXIAL jack, and set the DIGITAL INPUT assignment to COAX (see page  
33). Coaxial connections perform the same as optical ones. COMPONENT VIDEO IN Y PB PR VIDEO IN TV, projector, etc.

Antenna input (e.g., RF IN) : Signal Flow B A Coaxial feed C AV receiver Coaxial feed from TV antenna b c B A a C Antenna input (e.g., RF IN) L OPTICAL  
OUT COAXIAL OUT Y PB PR COMPONENT VIDEO OUT VIDEO OUT AUDIO OUT R Antenna output (e.g., RF OUT) Satellite, cable, set-top box, etc. 28  
Connecting Your Components--Continued Connecting a CD Player or Turntable CD Player or Turntable with Built-in Phono Preamp a Connect your CD  
player's analog audio output jacks, or your turntable with built-in phono preamp's audio output jacks to the AV receiver's CD IN L/R jacks. With connection a  
, you can listen to and record audio from the CD player or turntable. b If your CD player has an optical output jack, connect it to the AV receivers DIGITAL  
IN OPT 2 jack.

c If your CD player has a coaxial output jack instead of an optical one, connect it to the AV receiver's DIGITAL IN COAXIAL jack, and set the DIGITAL  
INPUT assignment to COAX (see page 33). Coaxial connections perform the same as optical ones. AV receiver : Signal Flow Connect one or the other b  
OPTICAL OUT c COAXIAL OUT CD player or L AUDIO OUT R a Turntable (MM) with built-in phono preamp Turntable (MM) with no Phono Preamp  
Built-in A phono preamp is necessary to connect a turntable that doesn't have a phono preamp built-in. AV receiver 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. AV receiver IN L R CD AUDIO  
OUTPUT L R Phono preamp IN L R CD AUDIO OUTPUT L R AUDIO INPUT L R AUDIO OUTPUT L 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 an HDD-  
compatible Component (Audio Only) As of this printing, the Onkyo Remote Interactive Dock is the only HDD-compatible component available.

Connect your HDD-compatible component's analog audio output jacks to the AV receiver's VIDEO 3 IN L/R jacks or TAPE IN L/R jacks. Notes: · Connect the  
HDD-compatible component's video output directly to a video input on your TV. · Connect the Remote Interactive Dock with a cable (see page 31). · Set the  
Remote Interactive Dock's RI MODE switch to HDD. · Set the AV receiver's Input Display to HDD (see page 33).

· Refer to the Remote Interactive Dock's instruction manual. S VIDEO OUT L AUDIO OUT R AV receiver To TV directly : Signal Flow Connect one or the  
other Connecting a Cassette, CDR, MiniDisc, or DAT Recorder a Connect your recorder's audio input jacks to the AV receiver's TAPE OUT L/R jacks, and  
connect your recorder's audio output jacks to the AV receiver's TAPE IN L/R jacks.



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With connection a, you can play and record with the recorder. b If your recorder has a coaxial digital output jack, connect it to the AV receiver's DIGITAL IN COAXIAL jack, and set the DIGITAL INPUT assignment to COAX (see page 33). c If your recorder has an optical output jack instead of a coaxial one, connect it to the AV receiver's DIGITAL IN OPT 1 or OPT 2 jack and set the DIGITAL INPUT assignment to OPT1 or OPT2 (see page 33). AV receiver Connect one or the other OPTICAL OUT c COAXIAL OUT : Signal Flow b L OUT PLAY a R L IN RED Cassette recorder, CDR, etc. a R 30 Connecting Your Components--Continued Connecting Onkyo Components Step 1: Make sure that each Onkyo component is connected to the AV receiver with an analog audio cable. Step 2: Make the connection. Step 3: If you're using an MD, CDR, or HDD component, change the input Display (see page 33). 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 multichannel DVD input, you'll need to press the [MULTI CH] button to hear all channels (see page 37), as the Direct Change function only selects the FRONT DVD IN jacks. Remote Control You can use the AV receiver's remote controller to control your other -capable Onkyo components, pointing the remote controller at the AV receiver's remote control sensor instead of the component. Notes: · Use only cables for connections. cables are supplied with Onkyo players (DVD, CD, etc.). · Some components have two jacks. You can connect either one to the AV receiver. The other jack is for connecting additional -capable components.

· Connect only Onkyo components to jacks. Connecting other manufacturer's components may cause a malfunction. · Some components may not support all functions. Refer to the manuals supplied with your other Onkyo components. IN L R CD FRONT REMOTE CONTROL L R DVD e. g., CD player R L ANALOG AUDIO OUT e.g., DVD player R L ANALOG AUDIO OUT Connecting the Power Cord Notes: · Before connecting the power cord, connect all of your speakers and AV components. · Connect the AV receiver's power cord to a suitable wall outlet. · Turning on the AV receiver may cause a momentary power surge that might interfere with other electrical equipment on the same circuit. If this is a problem, plug the AV receiver into a different branch circuit. 31 Turning On STANDBY/ON STANDBY indicator TUNING / PRESET RECEIVER ON/STANDBY REMOTE MODE ON/STANDBY MASTER VOLUME RECEIVER TAPE DVD INPUT SELECTOR 1 V1 2 V2 3 V3 CD STANDBY/ON ENTER 4 7 TAPE 5 MULTI CH 6 DVD MD STANDBY A SPEAKERS B TONE + STEREO LISTENING MODE DISPLAY DIGITAL INPUT RT/PTY/TP MEMORY TUNING MODE RETURN SETUP 8 TUNER 9 CD CDR CLEAR PHONES MULTI CH DVD VIDEO 1/VCR VIDEO 2 VIDEO 3 TAPE TUNER CD +10 -/-- 0 DIMMER CLR SLEEP HDD DISC ALBUM CH VOL Turning On the AV Receiver 1 AV receiver STANDBY/ON Remote controller RECEIVER Press the [STANDBY/ON] button. Alternatively, press the remote controller's [RECEIVER] button followed by the [ON/STANDBY] button. The AV receiver comes on, the display lights up, and the STANDBY indicator goes off. or ON/STANDBY To turn the AV receiver off, press the [STANDBY/ON] button, or the remote controller's [ON/STANDBY] button. The AV receiver will enter Standby mode. To prevent any loud surprises the next time you turn on the AV receiver, always turn down the volume before turning it off. Smooth Operation in a Few Easy Steps To ensure smooth operation, here's a few easy steps to help you configure the AV receiver before you use it for the very first time. These settings only need to be made once.

Have you connected a component to a digital audio input? If you have, see "Assigning Digital Inputs to Input Sources" on page 33. COAXIAL OPTICAL Have you connected an Onkyo MD recorder, CD recorder, or next generation HDD-compatible component? If you have, see "Changing the Input Display" on page 33. Do the speaker configuration--this is essential! See "Speaker Configuration" on page 34. OUT IN TAPE CD recorder, MD recorder 32 First Time Setup Assigning Digital Inputs to Input Sources Changing the Input Display If you connect an -capable Onkyo MiniDisc recorder, CD recorder, or next generation HDD-compatible component to the TAPE IN/OUT or VIDEO 3 IN jacks, for to work properly, you must change this setting. This setting can only be changed on the AV receiver. TUNING / PRESET 2, 3 TUNING / PRESET MASTER VOLUME STANDBY/ON ENTER STANDBY A SPEAKERS B TONE + STEREO LISTENING MODE DISPLAY DIGITAL INPUT RT/PTY/TP MEMORY TUNING MODE RETURN SETUP CLEAR PHONES MULTI CH DVD VIDEO 1/VCR VIDEO 2 VIDEO 3 TAPE TUNER CD MASTER VOLUME STANDBY/ON ENTER STANDBY A SPEAKERS B TONE + STEREO LISTENING MODE DISPLAY DIGITAL INPUT RT/PTY/TP MEMORY TUNING MODE RETURN SETUP 1 To enjoy Dolby Digital and DTS, you must connect your DVD player to the AV receiver by using a digital audio connection (coaxial or optical). Here are the default assignments. Input selector DVD VIDEO 1/VCR VIDEO 2 VIDEO 3 TAPE CD Default assignment COAX ---OPT 1 -----OPT 2 CLEAR PHONES MULTI CH DVD VIDEO 1/VCR VIDEO 2 VIDEO 3 TAPE TUNER CD 1, 2 1, 2 iPod photo: If you're using an iPod photo with the DS-A1 Remote Interactive Dock, connect the DS-A1's S VIDEO jack directly to an S-Video input on your TV. 1 TAPE Press the [TAPE] or [VIDEO 3] input selector button so that "TAPE" or "VIDEO3" appears on the display. With this function, you can assign digital inputs to input sources.

For example, if you connect your DVD player to DIGITAL IN OPTICAL, you'll need to assign that input (OPT1) to the DVD input source. You can change the assignments as follows. Note: Make sure you also set your digital sources to send out a digital signals. Please refer to the digital sources' manual. or VIDEO 3 2 TAPE 1 DVD VIDEO 1/VCR VIDEO 2 VIDEO 3 TAPE TUNER CD 2 DIGITAL INPUT Press the [DIGITAL INPUT] button.

The current assignment appears. Note: HDD can be selected for the TAPE input selector or VIDEO 3 input selector, but not both at the same time. 3 DIGITAL INPUT Press the [DIGITAL INPUT] button repeatedly to select COAX, OPT1, OPT2, or " " (analog).



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For the VIDEO 3 input selector, the setting changes in this order: VIDEO 3 HDD Press the input selector button for the source that you want to assign. (Digital inputs cannot be assigned to the TUNER input source.

) or VIDEO 3 Press and hold down the [TAPE] or [VIDEO 3] input selector button (about 3 seconds) to change the setting. Repeat this step to select MD, CDR, or HDD. @@@@Yes: Select if a subwoofer is connected. No: Select if no subwoofer is connected. @@Small: Select if the front speakers are small. Large: Select if the front speakers are large. @@Small: Select if the center speaker is small. Large: Select if the center speaker is large. None: Select if no center speaker is connected. @@Small: Select if the surround speakers are small.

Large: Select if the surround speakers are large. None: Select if no surround speakers are connected. @@To turn off the test tone, press the [TEST TONE] button again. @@@@Setup closes. When you want to go back up one menu level to "SP Config," press the [RETURN] button. 35 Playing Your AV Components Basic AV Receiver Operation 2 STANDBY/ON DISPLAY TUNING / PRESET 4 MASTER VOLUME ON/STANDBY REMOTE MODE RECEIVER TAPE DVD 1 INPUT SELECTOR 1 1 V1 2 V2 3 V3 CD 4 ENTER STANDBY 5 MULTI CH 6 DVD MD 7 A SPEAKERS B TONE + STEREO LISTENING MODE DISPLAY DIGITAL INPUT RT/PTY/TP MEMORY TUNING MODE RETURN SETUP 8 TUNER 9 CD CDR TAPE CLEAR PHONES MULTI CH DVD VIDEO 1/VCR VIDEO 2 VIDEO 3 TAPE TUNER CD +10 -/--- 0 DIMMER CLR SLEEP HDD DISC ALBUM CH VOL 4 MULTI CH 1 GUIDE TOP MENU PREVIOUS MENU 2 SP A / B MUTING ENTER PLAYLIST PLAYLIST 1 AV receiver DVD VIDEO 1/VCR VIDEO 2 Remote controller RECEIVER Use the AV receiver's input selector buttons to select the input source. To select the input source with the remote controller, press the [RECEIVER] button, and then use the INPUT SELECTOR buttons. On the remote controller, the [V1], [V2], and [V3] buttons select the VIDEO 1/VCR, VIDEO 2, and VIDEO 3 input sources respectively. VIDEO 3 TAPE TUNER V1 CD V2 V3 DVD TAPE TUNER CD 2 AV receiver A SPEAKERS B Remote controller SP A / B Use the SPEAKERS [A] and [B] buttons on the AV receiver or the [SP A/B] button on the remote controller to select the speaker set that you want to use. Pressing the remote controller's [SP A/B] button cycles through the following settings: Speaker Set A Speaker Set A&B Speaker Set B Off.

The A and B speaker indicators show whether each speaker set is on or off. Indicators Note that when speaker set B is turned on, speaker set A is reduced to 2.1-channel playback. 3 4 AV receiver MASTER VOLUME Start playback on the source component. When you select DVD or another video component, on your TV you'll need to select the video input that's connected to the AV receiver's MONITOR OUT.

Remote controller VOL To adjust the volume, use the MASTER VOLUME control, or the remote controller's [VOL] button. The volume can be set to MIN, 1 through 79, or MAX. @@@@If the input signal is PCM, the sampling frequency is displayed.

@@@@The frequency stops changing when you release the button. @@Hardware Setup," and then press [ENTER].

@@9 kHz: Select if 9 kHz steps are used in your area. Press the [SETUP] button. @@@@When tuned into a station, the TUNED indicator appears.

@@@@Note: · You can also use the remote controller's Up and Down [ ]/[ ] buttons to tune the radio. Note: · This procedure can also be performed on the remote controller by using its [SETUP] button, arrow buttons, and [ENTER] button. 38 Using the Tuner--Continued Presetting Radio Stations Deleting Presets 2, 4 STANDBY/ON 3 TUNING / PRESET 2 MASTER VOLUME TUNING / PRESET MASTER VOLUME STANDBY/ON ENTER ENTER STANDBY STANDBY A SPEAKERS B TONE + STEREO LISTENING MODE DISPLAY DIGITAL INPUT RT/PTY/TP MEMORY TUNING MODE RETURN SETUP A SPEAKERS B TONE + STEREO LISTENING MODE DISPLAY DIGITAL INPUT RT/PTY/TP MEMORY TUNING MODE RETURN SETUP CLEAR PHONES MULTI CH DVD VIDEO 1/VCR VIDEO 2 VIDEO 3 TAPE TUNER CD CLEAR PHONES MULTI CH DVD VIDEO 1/VCR VIDEO 2 VIDEO 3 TAPE TUNER CD You can store up to 30 of your favorite radio stations as presets. 1 2 MEMORY TUNING MODE CLEAR 1 2 MEMORY Tune into the station that you want to store as a preset. Press the [MEMORY] button. The MEMORY indicator appears and the preset number flashes. Select the preset that you want to delete.

See the previous section. While holding down the [MEMORY] button, press the [TUNING MODE] button. The selected preset is deleted and its number disappears from the display. 3 TUNING / PRESET ENTER While the MEMORY indicator is displayed (about 8 seconds), use the PRESET [ ]/[ ] buttons to select a preset from 1 through 30. In this example, preset #3 is selected. Displaying Radio Information 1 TUNING / PRESET MASTER VOLUME STANDBY/ON ENTER STANDBY A SPEAKERS B TONE + STEREO LISTENING MODE DISPLAY DIGITAL INPUT RT/PTY/TP MEMORY TUNING MODE RETURN SETUP CLEAR PHONES MULTI CH DVD VIDEO 1/VCR VIDEO 2 VIDEO 3 TAPE TUNER CD 4 MEMORY Press the [MEMORY] button again to store the station. The station is stored and the preset number stops flashing. Repeat this procedure for all your favorite radio stations. 1 DISPLAY Press the [DISPLAY] button repeatedly to cycle through the available information. Selecting Preset Stations Band, preset # & frequency 1 TUNING / PRESET MASTER VOLUME Listening mode STANDBY/ON ENTER STANDBY A SPEAKERS B TONE + STEREO LISTENING MODE DISPLAY DIGITAL INPUT RT/PTY/TP MEMORY TUNING MODE RETURN SETUP CLEAR PHONES MULTI CH DVD VIDEO 1/VCR VIDEO 2 VIDEO 3 TAPE TUNER CD 1 TUNING / PRESET ENTER Use the PRESET [ ]/[ ] buttons, or the remote controller's CH [+/-] button to select a preset.

39 Using the Tuner--Continued Using RDS (European models only) RDS only works with European models and only in areas where RDS broadcasts are available. When tuned into an RDS station, the RDS indicator appears. RDS indicator Program Types Used in Europe (PTY) Type None News reports Current affairs Display NONE NEWS AFFAIRS Description No program type. Reports on current events and happenings. Topical reporting of current affairs, often with a wider range of topics than news reports.

General information such as weather forecasts, consumer affairs, medical help, etc. Live sports action, sports news, and interviews. Radio plays and serials. What is RDS? RDS stands for Radio Data System and is a method of transmitting data in FM radio signals. It was developed by the European Broadcasting Union (EBU) and is available in most European countries.



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