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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO TX-NR3007. You'll find the answers to all your questions on the ONKYO TX-NR3007 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-NR3007
User guide ONKYO TX-NR3007
Operating instructions ONKYO TX-NR3007
Instructions for use ONKYO TX-NR3007
Instruction manual ONKYO TX-NR3007

ONKYO®

AV Receiver

TX-NR3007
TX-NR5007

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:

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. 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. PORTABLE CART WARNING 12.

Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when S3125A moving the cart/apparatus combination to avoid injury from tip-over. 13. Unplug this apparatus during lightning storms or when unused for long periods of time. 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 2 Precautions 1. Recording Copyright--Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder. 2.

AC Fuse--The AC fuse inside the unit is not userserviceable. If you cannot turn on the unit, contact your Onkyo dealer. 3. Care--Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering. 4. Power WARNING BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. AC outlet voltages vary from country to country.

Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz). The power cord plug is used to disconnect this unit from the AC power source. Make sure that the plug is readily operable (easily accessible) at all times.

Pressing the [ON/STANDBY] button to select Standby mode does not fully shutdown the unit. If you do not intend to use the unit for an extended period, remove the power cord from the AC outlet. Preventing Hearing Loss Caution Excessive sound pressure from earphones and headphones can cause hearing loss. Batteries and Heat Exposure Warning Batteries (battery pack or batteries installed) shall not be exposed to excessive heat as sunshine, fire or the like.

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. 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.



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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. · 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. 5. 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.

6. 7. 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. 8.

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. 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. 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. Supplied Accessories Make sure you have the following accessories: Remote controller & two batteries (AA/R6) (Note for China: The battery for the remote controller is not supplied for this unit.) Speaker setup microphone Indoor FM antenna AM loop antenna 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 Power cord (Plug type varies from country to country.) SURROUND BACK LEFT SURROUND BACK LEFT SURROUND BACK RIGHT SURROUND BACK RIGHT SP-B/ZONE2 LEFT SP-B/ZONE2 LEFT FRONT WIDE FRONT RIGHT FRONT RIGHT WIDE FRONT WIDE RIGHT WIDE RIGHT SP-B/ZONE2 LEFT SP-B/ZONE2 LEFT SP-B/ZONE2 RIGHT SP-B/ZONE2 RIGHT SP-B/ZONE2 RIGHT SP-B/ZONE2 RIGHT SURROUND LEFT SURROUND RIGHT CENTER SURROUND LEFT SURROUND RIGHT CENTER FRONT LEFT FRONT RIGHT FRONT RIGHT FRONT LEFT SURROUND BACK LEFT SURROUND BACK LEFT HIGH RIGHT HIGH RIGHT SURROUND LEFT SURROUND RIGHT FRONT LEFT FRONT LEFT FRONT RIGHT FRONT RIGHT HIGH LEFT HIGH LEFT WIDE LEFT FRONT WIDE FRONT LEFT Speaker Cable FRONT FRONT FRONT FRONT HIGH HIGH HIGH FRONT RIGHT FRONT LEFT Speaker cable labels FRONT LEFT FRONT RIGHT FRONT LEFT 1 2 3 WIDE HIGH FRONT WIDE LEFT SURROUND BACK RIGHT SURROUND BACK RIGHT SURROUND LEFT SURROUND RIGHT CENTER CENTER * Power-plug adapter Only supplied in certain countries. Use this adapter if your AC outlet does not match with the plug on the AV receiver's power cord (adapter varies from country to country). *How to mount the AC plug: ONKYO EUROPE ELECTRONICS GmbH * In catalogs and on packaging, the letter at the end of the product name indicates the color.

Specifications and operations are the same regardless of color. 4 Contents Introduction Important Safety Instructions

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C.P.

S. (High Current Power Supply) Massive High Power Transformer · Toroidal transformer (TX-NR5007) · SIRIUS*8 Satellite Radio Connectivity (North American models) · Banana Plug-Compatible Speaker Posts*7 · Powered Zone 2/3 · Internet Radio* Connectivity (SIRIUS Internet Radio*8/vTuner/Last.fm/Pandora/Rhapsody) * Services available may vary depending on the region. · Network Capability for Streaming Audio Files · Bi-Amping and BTL Capability · USB Port for a USB Mass Storage Device (Audio Only) Miscellaneous · 40 SIRIUS*8/AM/FM Presets (North American models) · 40 AM/FM Presets (European and Asian models) · Dolby Volume*3 · Audyssey MultEQ® XT*9 to Correct Room Acoustic Problems · Audyssey Dynamic EQTM*9 for Loudness Correction · Audyssey Dynamic VolumeTM*9 · Crossover Adjustment (40/50/60/70/80/90/100/120/150/200 Hz) · A/V Sync Control Function (up to 250 ms) · Bi-Directional Preprogrammed (with onscreen display setup) RI-Compatible Learning Remote with 4 Activities and Mode-Key LEDs · ISF (Imaging Science Foundation) Video Calibration *1. THX and Ultra2 Plus are trademarks of THX Ltd. THX may be registered in some jurisdictions. All rights reserved. Surround EX is a trademark of Dolby Laboratories. Used with permission. *2.

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark & the DTS logos, Symbol, DTS-HD Master Audio and DTS Surround Sensation are trademarks of DTS, Inc. ©1996-2008 DTS, Inc. All Rights Reserved. *3. Processing · THX Ultra2 Plus*1 Certified · HQV-Reon-VX Video Processing with 1080p Video Upscaling of All Video Sources via HDMI · HDMI ver.

1.3a with (Deep Color, x.v.Color, Lip Sync, DTS*2-HD Master Audio, Dolby TrueHD*3, DSD and Multi-CH PCM) · Dolby Pro Logic IIz*3 New Surround Format (fronthigh) · Audyssey Dynamic Surround ExpansionTM*9 for New Surround Channels (front-wide/front-high) · DTS Surround Sensation Speaker/Headphone Technology*2 · 4 DSP Modes for Gaming; Rock/Sports/Action/RPG · Non-Scaling Configuration · Direct Mode and Pure Audio Mode · Music Optimizer*4 for Digital Music Files · A-Form Listening Mode Memory · Latest Burr-Brown 192 kHz/32-Bit DACs Improve Jitter Performance for Cleaner Sound (TX-NR5007) · Burr-Brown 192 kHz/24-Bit DACs Improve Jitter Performance for Cleaner Sound (TX-NR3007) · Three TI (Aureus) 32-bit Processing DSP · Neural Surround Decoding*10 · DSD Direct Connections · · · · · 7 HDMI*5 Inputs and 2 Outputs (TX-NR3007) 8 HDMI*5 Inputs and 2 Outputs (TX-NR5007) Onkyo for System Control 6 Digital Inputs (3 Optical/3 Coaxial) (TX-NR3007) 7 Digital Inputs (4 Optical/3 Coaxial) (TX-NR5007) Universal Port for UP-A1 (Dock for the iPod)/HD RadioTM*6 tuner module (North American models)/ DAB+ tuner module (European models) · 2 Independent Subwoofer Pre Outs Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", "Surround EX" and the double-D symbol are trademarks of Dolby Laboratories.

*4. Music OptimizerTM is a trademark of Onkyo Corporation. *5. HDMI, the HDMI logo and High Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC. 6 Features--Continued *6.

HD RadioTM and the HD Radio Ready logo are proprietary trademarks of iBiquity Digital Corporation. To receive HD Radio broadcasts, you must install an Onkyo UP-HT1 HD Radio tuner module (sold separately). *7. In Europe, using banana plugs to connect speakers to an audio amplifier is prohibited. *8. SIRIUS, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All other marks and logos are the property of their respective owners. All rights reserved. SIRIUS and XM subscriptions sold separately.

Taxes and a one-time activation fee may apply. XM tuners and home docks or SIRIUS tuners (each sold separately) are required to receive the SIRIUS or XM satellite radio service. All programming and fees subject to change. It is prohibited to copy, decompile, disassemble, reverse engineer, hack, manipulate or otherwise make available any technology or software incorporated in receivers compatible with the SIRIUS or XM Satellite Radio Systems. Service not available in Alaska and Hawaii. *9. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited consumer uses only unless otherwise authorized by Macrovision.

Reverse engineering or disassembly is prohibited. Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending.

Audyssey MultEQ® XT, Audyssey Dynamic Surround ExpansionTM, Audyssey Dynamic VolumeTM and Audyssey Dynamic EQTM are trademarks of Audyssey Laboratories. *10. Neural Surround is a trademark owned by Neural Audio Corporation, THX is a trademark of THX Ltd., which may be registered in some jurisdictions. All rights reserved.

THX Ultra2 Plus Before any home theater component can be THX Ultra2 Plus certified, it must pass a rigorous series of quality and performance tests. Only then can a product feature the THX Ultra2 Plus logo, which is your guarantee that the Home Theater products you purchase will give you superb performance for many years to come. THX Ultra2 Plus requirements define hundreds of parameters, including power amplifier performance, and pre-amplifier performance and operation for both digital and analog domains. THX Ultra2 Plus receivers also feature proprietary THX technologies (e.g., THX Mode) which accurately translate movie soundtracks for home theater playback. * * * * * "Xantech" is a registered trademark of Xantech Corporation.

"Niles" is a registered trademark of Niles Audio Corporation. Apple and iPod are trademarks of Apple Inc., registered in the U.

S. and other countries. "x.v.Color" is a trademark of Sony Corporation. Rhapsody and the Rhapsody logo are registered trademarks of RealNetworks, Inc. "DLNA®, the DLNA Logo and DLNA CERTIFIEDTM are trademarks, service marks, or certification marks of the Digital Living Network Alliance." Re-Equalization and the "Re-EQ" logo are trademarks of THX Ltd. 7 Front & Rear Panels Front Panel Front flap Pull here to open the flap The actual front panel has various logos printed on it. They are not shown here for clarity.

The page numbers in parentheses show where you can find the main explanation for each item. ON/STANDBY button (48) This button is used to set the AV receiver to On or Standby.



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STANDBY indicator (48) Lights when the AV receiver is in Standby mode, and it flashes while a signal is being received from the remote controller. ZONE 2 indicator (136) Lights when Zone 2 is selected. ZONE 3 indicator (136) Lights when Zone 3 is selected.

Input selector buttons (67) These buttons are used to select from the following input sources: DVD/BD, VCR/DVR, CBL/SAT, GAME, AUX 1, AUX 2, TV/TAPE, TUNER, CD, PHONO, PORT, NET/USB. Remote control sensor/transmitter (14) The sensor receives control signals from the remote controller. The transmitter transmits setting data to the remote controller. Display See "Display" on page 10. MASTER VOLUME control (67) and indicator This control is used to adjust the volume of the AV receiver to dB, 81.

5 dB through +18.0 dB (relative display). The volume level can also be displayed as an absolute value. See "Volume Setup" on page 110. PURE AUDIO button (81) Selects the Pure Audio listening mode. Pressing this button again selects the previous listening mode. 8 Front & Rear Panels--Continued (North American models) (European and Asian models) The page numbers in parentheses show where you can find the main explanation for each item. PHONES jack (70) This 1/4-inch phone jack is for connecting a standard pair of stereo headphones for private listening. ZONE 2, ZONE 3, and OFF buttons (136) The [ZONE 2] button is used to select Zone 2. The [ZONE 3] button is used to select Zone 3.

The [OFF] button is used to turn off Zone 2 or Zone 3. TONE button (68, 137) Used to select the tone (bass and treble) for the main room, and the tone and balance for Zone 2 or Zone 3. LEVEL button (137) Used to select the volume level of Zone 2 or Zone 3. MONITOR OUT button (49) Used to set the "Monitor Out" setting. LISTENING MODE buttons (81) MOVIE/TV: Selects the listening modes intended for use with movies and TV. MUSIC: Selects the listening modes intended for use with music. GAME: Selects the listening modes intended for use with video games. THX: Selects the THX listening modes. DIMMER button (69) (North American models) This button is used to adjust the display brightness. RT/PTY/TP button (75) (European and Asian models) This button is used for RDS (Radio Data System).

The [RT/PTY/TP] button does not work in areas where RDS broadcasts are not available. See "Using RDS (European models)" on page 75. MEMORY button (74) This button is used when storing or deleting radio presets. TUNING MODE button (73) This button is used to select the Auto or Manual tuning mode. Arrow, TUNING, PRESET and 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 pages 74 and 76).

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. SETUP button This button is used to access the onscreen setup menus that appear on the connected TV. RETURN button This button is used to return to the previously displayed onscreen setup menu. 9 Front & Rear Panels--Continued SETUP MIC jack (62) Audyssey MultEQ® XT Room Correction and Speaker Setup microphone connects here.

USB port (127) A USB mass storage device, such as a USB flash drive or MP3 player, containing music files can be plugged in here and the music selected can be played through the AV receiver. AUX 1 INPUT (42) This input can be used to connect a camcorder, game console, and so on. There are jacks for composite video, analog audio, and optical digital audio. AUX 1 INPUT HDMI (31) Used to connect an HD camcorder etc. Up [] and Down [] buttons (68, 137) Used to adjust the tone (bass and treble) for the main room and the volume, tone and balance for Zone 2 or Zone 3. DISPLAY button (68) This button is used to display various information about the currently selected input source. POWER switch (48) (European and Asian models) This is the main power switch. When set to OFF, the AV receiver is completely shutdown. It must be set to ON to set the AV receiver to On or Standby. Display For detailed information, see the pages in parentheses.

Speaker/channel indicators Indicate the speaker channels used by the current listening mode. The following abbreviations indicate which audio channels are outputted for the current listening mode. LW: LH: RH: RW: FL: C: FR: SL: SW: SR: SBL: SB: SBR: Front wide left Front high left Front high right Front wide right Front left Center Front right Surround left Subwoofer (Low Frequency Effects) Surround right Surround back left Surround back Surround back right Listening mode and format indicators (81) Show the selected listening mode and audio input signal format. Audyssey (61, 98): Flashes during Audyssey MultEQ® XT Room Correction and Speaker Setup. Lights when the "Equalizer Settings" is set to "Audyssey" or Audyssey Dynamic Surround Expansion™ listening mode is selected. Dynamic EQ (102): Lights when "Dynamic EQ" is enabled. Vol (102, 118): Lights when "Dynamic Volume" is enabled. Vol (101, 118): Lights when "Dolby Volume" is enabled. NETWORK indicator (121) Lights when the Net input selector is selected. Z2 indicator (136) Lights when Powered Zone 2 is being used.

A and B indicators (70) Indicate which speaker set is selected: A or B. Z3 indicator (136) Lights when Powered Zone 3 is being used. 10 Front & Rear Panels--Continued Tuning indicators RDS (European models) (75): Lights when tuned to a radio station that supports RDS (Radio Data System). AUTO (73): Lights when Auto Tuning mode is selected for AM or FM radio. Goes off when Manual Tuning mode is selected.

TUNED (73): Lights when tuned to a radio station. FM STEREO (73): Lights when tuned to a stereo FM station. SLEEP indicator (69) Lights when the Sleep function has been set. Bi AMP indicator (23, 25) Lights when the "Speakers Type(FrontA)" or "Speakers Type(FrontB)" setting is set to "Bi-Amp". BTL indicator (24, 26) Lights when the "Speakers Type(FrontA)" or "Speakers Type(FrontB)" setting is set to "BTL" for bridged front speaker operation.

Headphone indicator (70) Lights when a pair of headphones are plugged into the PHONES jack. Message area Displays various information. USB indicator (128) Lights up when a USB mass storage device is detected. Volume level (67) Displays the volume level. MUTING indicator (69) Flashes while the AV receiver is muted. Audio input indicators Indicate the type of audio input that's selected as the audio source: HDMI, ANALOG, or DIGITAL. Rear Panel (TX-NR5007) * North American models * UNIVERSAL PORT This port is for connecting the component with the Universal Port option such as UP-A1 Dock. IR IN/OUT A commercially available IR receiver can be connected to the IR IN jack, allowing you to control the AV receiver while you're in Zone 2/3, or control it when it's out of sight, for example, installed in a cabinet.



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A commercially available IR emitter can be connected to the IR OUT jack to pass IR (infrared) remote control signals through to other components. DIGITAL OPTICAL IN 1 and 2 (TX-NR3007) DIGITAL OPTICAL IN 1, 2, and 3 (TX-NR5007) These optical digital audio inputs are for connecting components with optical digital audio outputs, such as CD and DVD/BD players.

They're assignable, which means you can assign each one to an input selector to suit your setup. See "Digital Audio Input Setup" on page 56. 11 Front & Rear Panels--Continued 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/BD players. They're assignable, which means you can assign each one to an input selector to suit your setup. See "Digital Audio Input Setup" on page 56. USB port (TX-NR5007) A USB mass storage device, such as a USB flash drive or MP3 player, containing music files can be plugged in here and the music selected can be played through the AV receiver. ETHERNET This port is for connecting the AV receiver to your Ethernet network (e.g., router or switch) for playing music files on a networked computer or media server, or for listening to Internet radio. REMOTE CONTROL This (Remote Interactive) jack can be connected to an jack on another Onkyo AV 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 AV component, even if they are connected digitally. RS232 Terminal for control. HDMI IN 16, OUT MAIN, and OUT SUB (TX-NR3007) HDMI IN 17, OUT MAIN, and OUT SUB (TX-NR5007) HDMI (High Definition Multimedia Interface) connections carry digital audio and digital video. The HDMI inputs are for connecting components with an HDMI output, such as a DVD player, Blu-ray Disc Player, DVD recorder, or DVR (digital video recorder).

They're assignable, which means you can assign each one to an input selector to suit your setup. See "HDMI Input Setup" on page 54. The HDMI outputs are for connecting a TV or projector with an HDMI input. MONITOR OUT These S-Video and composite video jacks should be connected to a video input on your TV or projector. COMPONENT VIDEO IN 1, 2 and 3 These RCA component video inputs are for connecting components with a component video output, such as a DVD player, DVD recorder, or DVR (digital video recorder).

They're assignable, which means you can assign each one to an input selector to suit your setup. See "Component Video Input Setup" on page 55. COMPONENT VIDEO MONITOR OUT These RCA component video outputs are for connecting a TV or projector with a component video input. ZONE 2 OUT This composite video output can be connected to a video input on a TV in Zone 2. FM ANTENNA This jack is for connecting an FM antenna. AM ANTENNA These push terminals are for connecting an AM antenna. AC INLET The supplied power cord is connected here. The other end of the power cord should be connected to a suitable wall outlet. GND screw This screw is for connecting a turntable's ground wire. PHONO IN These analog audio inputs are for connecting a turntable.

CD IN These analog audio inputs are for connecting a CD player's analog audio output. 12V TRIGGER OUT ZONE 2 This output can be connected to the 12-volt trigger input on a component in Zone 2. When Zone 2 is turned on, a 12-volt trigger signal is output. 12V TRIGGER OUT ZONE 3 This output can be connected to the 12-volt trigger input on a component in Zone 3. When Zone 3 is turned on, a 12-volt trigger signal is output. TV/TAPE IN/OUT These analog audio inputs and outputs are for connecting a TV or recorder with an analog audio input and output (cassette, Mini Disc, etc.). AUX 2 IN This analog audio input is for connecting an analog audio output, such as an audio device, etc. GAME IN Here you can connect a game console, 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/BD IN Here you can connect a DVD/BD player.

Input jacks include S-Video, composite video, and analog audio. You can connect a DVD/BD player's 2-channel analog audio output. MULTI CH input: FRONT L/R, CENTER, SUBWOOFER, SURR L/R, and SURR BACK L/R This analog multichannel input is for connecting a component with a 5.1/7.1-channel analog audio output, such as a DVD player, DVD-Audio or Super Audio CD-capable player, or an MPEG decoder. PRE OUT: FRONT L/R, CENTER, SURR L/R, SURR BACK L/R, and FRONT HIGH/WIDE L/R These multichannel analog audio outputs 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. PRE OUT: SW1, SW2 These analog audio outputs can be connected to a powered subwoofer. You can connect the powered subwoofer with each jacks respectively. Level and distance can be set individually for each output. PRE OUT: ZONE 2, ZONE 3 L/R These analog audio outputs can be connected to the line inputs on amplifiers in Zone 2 and Zone 3. FRONT L/R, CENTER, SURR L/R, SURR BACK/ZONE 3 L/R, FRONT HIGH L/R, and FRONT WIDE/ZONE 2 L/R These terminal posts are for connecting the front L/R, center, surround L/R, surround back/zone 3 L/R, front high L/R, and front wide/zone 2 L/R speakers. The FRONT L/R and SURR BACK/ZONE 3 L/R terminal posts can be used with front speakers A and surround back speakers respectively, or used to bi-amp or bridge the front speakers A. See "Bi-amping the Front Speakers A" on page 23 and "Bridging the Front Speakers A" on page 24. The FRONT WIDE/ZONE 2 L/R and SURR BACK/ZONE 3 L/R terminal posts can be used with front speakers B and surround back speakers respectively, or used to biamp or bridge the front speakers B. See "Bi-amping the Front Speakers B" on page 25 and "Bridging the Front Speakers B" on page 26.

The FRONT WIDE/ZONE 2 L/R terminals can be used with front wide speakers respectively, or used to connect the speakers in Zone 2. See "Connecting Zone 2" on page 131. The SURR BACK/ZONE 3 L/R terminals can be used with surround speakers respectively, or used to connect the speakers in Zone 3. See "Connecting Zone 3" on page 133. SIRIUS antenna (North American models) This jack is for connecting a SIRIUS Satellite Radio antenna, sold separately (see the separate SIRIUS instructions). See pages 18 to 47 for connection information. 13 Remote Controller Installing the Batteries Aiming the Remote Controller To use the remote controller, point it at the AV receiver's remote control sensor, as shown below.



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Transmission Remote control sensor AV receiver 1 To open the battery compartment, press the small lever and remove 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) 30° off center (Left/Right/Up/Down) Received Transmitter AV receiver Incoming sensor 15 15 3 Replace the cover and push it shut. 15° off center (Left/Right/Up/Down) Approx. 16 ft. (5 m) Notes: · If the remote controller doesn't work reliably, try replacing the batteries. · Don't mix new and old batteries or different types of batteries. · If you intend not to use the remote controller for a long time, remove the batteries to prevent damage from leakage or corrosion. · Expired batteries should be removed as soon as possible to prevent damage from leakage or corrosion. Notes: · The remote controller may not work reliably if the AV receiver is subjected to bright light, such as direct sunlight or inverter-type fluorescent lights. Keep this in mind when installing. · If another remote controller of the same type is used in the same room, or the AV receiver is installed close to equipment that uses infrared rays, the remote controller may not work reliably. · Don't put anything, 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. · When the remote control codes have been registered and you want to operate another component (page 141), or when you want to operate an Onkyo component without connection, point the remote controller at the other component to use it. · When you want to operate an Onkyo component with connection or an -compatible component connected via HDMI (pages 143 and 144), point the remote controller at the AV receiver's remote control sensor. 14 Remote Controller--Continued Controlling the AV Receiver To control the AV receiver, press the [RECEIVER] button to select Receiver mode. You can also use the remote controller to control your DVD/BD player, CD player, and other components. See page 141 for more details.

For detailed information, see the pages in parentheses. STANDBY button (48) Sets the AV receiver to Standby. ON button (48) Turns on the AV receiver. ACTIVITIES buttons (71, 153) Used with the MACRO function. 3 REMOTE MODE/INPUT SELECTOR buttons (67, 143 to 149) Selects the remote controller modes and the input sources. SP LAYOUT button (70) This button is used to change the speaker selection: Front High speakers or Front Wide speakers*2. Speakers A or Speakers B. *1 *2 If you use surround back speakers, you can select the combination of surround back and front high, or surround back and front wide speakers. 4 1 Arrow []/[]/[]/[] and ENTER buttons Used to select and adjust settings. SETUP button Used to change settings. LISTENING MODE buttons (81) Used to select the listening modes. DIMMER button (69) Adjusts the display brightness. DISPLAY button (68) Displays information about the current input source. MUTING button (69) Mutes or unmutes the AV receiver. VOL []/[] button (67) Adjusts the volume of the AV receiver regardless of the currently selected remote controller mode. VIDEO button (49, 53, 105) Used to change video settings. RETURN button Returns to the previous display when changing settings. AUDIO button (117) Used to change audio settings. When the "Audio TV Out" setting is set to "On" (page 113), this button is disabled. SLEEP button (69) Used with the Sleep function. 5 2 *1 When you want to change the remote controller mode without changing the current input source, press the [MODE] button and within about eight seconds, press the REMOTE MODE button. Then, with the AV receiver's remote controller, you can control the component corresponding to the button you pressed. 15 Remote Controller--Continued Controlling the tuner To control the AV receiver's tuner, press the [TUNER] (or [RECEIVER]) button. You can select AM or FM by pressing the [TUNER] button repeatedly. 1 2 3 4 5 Arrow []/[] buttons Used to tune into radio stations. D.TUN button (73) (TUNER remote mode only) Selects the Direct tuning mode. DISPLAY button Displays information about the band, frequency, preset number, and so on. CH +/- button (74) Used to select radio presets. Number buttons (73, 74) Used to select radio stations directly in the Direct tuning mode.

Also you can select a preset directly. Note: An Onkyo cassette recorder connected via can also be controlled in Receiver mode (see page 149). 16 About Home Theater Enjoying Home Theater Thanks to the AV receiver's superb capabilities, you can enjoy surround sound with a real sense of movement in your own home--just like being in a movie theater or concert hall. With DVDs you can enjoy DTS and Dolby Digital. With analog or digital TV, you can enjoy Dolby Pro Logic IIx, DTS Neo:6, or Onkyo's original DSP listening modes. You can also enjoy THX Surround EX (THX-certified THX speaker system recommended). 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.

Front high left and right speakers These speakers are necessary to enjoy Dolby Pro Logic IIz Height, and Audyssey Dynamic Surround Expansion™. They significantly enhance the spatial experience. Position them at least 3.3 feet (100 cm) above the front left and right speakers (preferably as high as possible) and at an angle slightly wider than the front left and right speakers. Front wide left and right speakers These speakers are necessary to enjoy Audyssey Dynamic Surround Expansion™ (DSX).

They significantly enhance the spatial experience. Position them well outside of the front left and right speakers. See also <http://www.audyssey.com/technology/dsx>.

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. Subwoofer The subwoofer handles the bass sounds of the LFE (Low-Frequency Effects) channel. The volume and quality of the bass output from your subwoofer will depend on its position, the shape of your listening room, and your listening position.



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In general, a good bass sound can be obtained by installing the subwoofer in a front corner, or at one-third the 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. 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 2 to 3 feet (60 to 100 cm) above ear level. 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 2 to 3 feet (60 to 100 cm) above ear level. Ideally they should be equidistant from the listener. Corner position 1/3 of wall position 17 Connecting the AV receiver Connecting Your Speakers About Speakers A and Speakers B Speakers A and Speakers B allows you to have two speaker configurations of up to 7.2 speakers. Each configuration has its own pair of stereo front speakers and can use the same subwoofer, center, surround, and surround back speakers, as required. You could, for example, use Speakers A when watching a DVD movie with 7.2-channels surround sound and use Speakers B for serious music listening with a pair of stereo speakers (2-channels). The speakers are configured by using the "Speaker Settings" on page 57 and "Speaker Setup" on page 95.

Front Speakers A and front Speakers B can be wired normally, bi-amped, or bridged, but A and B cannot be bi-amped or bridged at the same time. For example, if front Speakers A are bridged, front Speakers B can only be wired normally. Similarly, if front Speakers B are bi-amped, Speakers A can only be wired normally. When bridging or bi-amping is used, the AV receiver can drive up to 5.2 speakers in the main room.

See pages 22 to 26 for more information. The Speakers A and Speakers B configurations are selected by using the [SP LAYOUT] button on the remote controller. Only one configuration can be selected at a time. The versatility offered by the Speakers A and Speakers B configurations means you can configure the AV receiver to suit your exact requirements and application. Two typical applications are shown below.

7.2-channel Playback with Speakers A and Stereo Playback with Speakers B In this example, Speakers A provides 7.2-channel surround sound for enjoying DVD movies, while Speakers B is used for serious music listening with a pair of top-quality stereo speakers. Speakers B Speakers B FL FL SW1 C FR SW2 FR FL FL SW1 C FR SW2 SR 8ohms Normal BTL Not Act Not Act Speaker A Speaker B 5.2-channel Playback with Bridged Front Speakers In this example, Speakers A provides 5.2-channel surround sound for enjoying DVD movies, while Speakers B is bridged for use with a pair of highpower stereo speakers, the subwoofer is used with Speakers A and Speakers B. FR Speakers A SL SBL SR SBR Subwoofer used with A and B Speakers A SL 21. Speaker Settings Speaker Impedance Speakers Type(FrontA) Speakers Type(FrontB) Powered Zone2 Powered Zone3 22. Speaker Configuration 22. Speaker Configuration Subwoofer Front Center Surround Surr Back Use Use Use Use Use Speaker A Subwoofer Front Center Surround Surr Back Use Use Use Use Not Use 6ohms Normal Normal Not Act Not Act 21.

Speaker Settings Speaker Impedance Speakers Type(FrontA) Speakers Type(FrontB) Powered Zone2 Powered Zone3 22. Speaker Configuration 22. Speaker Configuration Subwoofer Front Center Surround Surr Back Not Use Use Not Use Not Use Not Use Speaker B Subwoofer Front Center Surround Surr Back Use Use Not Use Not Use Not Use 18 Connecting the AV receiver--Continued Speaker Configuration For 9.2-channel surround-sound playback, you need nine speakers and two powered subwoofers. 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* Surround back left Surround back right Front high left Front high right Front wide left Front wide right * 2 3 4 5 6 7 7 8 8 9 9 9 10 11 If you're using only one surround back speaker, connect it to the SURR BACK/ZONE 3 L terminal. No matter how many speakers you use, two powered subwoofers are recommended for a really powerful and solid bass. To get the best from your surround sound system, you need to set the speaker settings. You can do this automatically (see page 61) or manually (see page 95). Note: Front high and front wide speakers produce no sound at the same time.

Attaching the Speaker Labels The AV receiver's positive (+) speaker terminals are all red (the negative (-) speaker terminals are all black). Speaker Front left Front right Center Surround left Surround right Surround back left, Zone 3 left Surround back right, Zone 3 right Front high left Front high right Front wide left, Zone 2 left Front wide right, Zone 2 right Color White Red Green Blue Gray Brown Tan White Red White Red (North American models) · If you are using banana plugs, tighten the speaker terminal before inserting the banana plug. · Do not insert the speaker code directly into the center hole of the speaker terminal. Connecting Powered Subwoofers Using a suitable cable, connect the AV receiver's PRE OUT: SW1, SW2 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: SW1, SW2 to an input on the amp.

You can connect the powered subwoofer with each jacks respectively. Level and distance can be set individually for each output. If you use one subwoofer, connect it to PRE OUT: SW1. Powered subwoofer 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. LINE INPUT LINE INPUT LINE INPUT LINE INPUT 19 Connecting the AV receiver--Continued Using Dipole Speakers You can use dipole speakers for the surround left and right, 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 and front high left and right and front wide left and right dipole speakers should be positioned so that their arrows point toward each other, as shown.



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Dipole speakers 9 1 11 2 TV/screen Speaker Connection Precautions Read the following before connecting your speakers: · 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 "4ohms" (see page 57). 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 L/R terminals. Do not connect them to the SURR BACK/ZONE 3 L/R, FRONT WIDE/ZONE 2 L/R, or FRONT HIGH L/R terminals. · Be careful not to short the positive and negative wires. Doing so may damage the AV receiver. · Make sure the metal core of the wire does not have contact with the AV receiver's rear panel. 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. Normal speakers 9 1 1 11 2 TV/screen 10 10 1 4 12 3 4 12 3 5 6 5 6 7 8 7 8 1. 2. 3.

4. 5. 6. 7. Subwoofers Front left speaker Center speaker Front right speaker Surround left speaker Surround right speaker Surround back left speaker 8. Surround back right speaker 9. Front high left speaker 10. Front high right speaker 11. Front wide left speaker 12. Front wide right speaker 20 Connecting the AV receiver--Continued Connecting the Speaker Cables 1 Strip 1/2" to 5/8" (12 to 15 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. Unscrew the terminal. 1/2" to 5/8" (12 to 15 mm) 3 Fully insert the bare wires. 2 4 Screw the terminal tight. 9.2-channel Playback with Speakers A 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 SURR BACK/ZONE 3 L terminal. Front high right speaker Front wide right speaker Front right speaker A Front left speaker A Front wide left speaker Front high left speaker Center speaker Surround right speaker Surround back right speaker Surround back left speaker Surround left speaker 21 Connecting the AV receiver--Continued 7.2-channel Playback with Speakers A or Speakers B The following illustration shows which speaker should be connected to each pair of terminals for up to 7.2-channel playback with Speakers A or Speakers B. If you're using only one surround back speaker, connect it to the SURR BACK/ZONE 3 L terminal. Front right speaker B Front right speaker A Front left speaker A Front left speaker B Center speaker Surround right speaker Surround back right speaker Surround back left speaker Surround left speaker Notes: · When Speakers A is selected as the main front speakers, connect the front left speaker to FRONT L, front right speaker to FRONT R. When Speakers B is selected as the main front speakers, connect the front left speaker to FRONT WIDE/ZONE 2 L, front right speaker to FRONT WIDE/ZONE 2 R. · The speakers are configured by using the "Speaker Settings" on page 57 and "Speaker Setup" on page 95. · You can choose which of the speakers you want to use with the Speakers A or Speakers B configuration (see page 96). · When you use the Speakers B configuration, front high speakers cannot be used. 22 Connecting the AV receiver--Continued Bi-amping the Front Speakers A The FRONT L/R and SURR BACK/ZONE 3 L/R terminal posts can be used with front speakers and surround back speakers respectively, or bi-amped to provide separate tweeter and woofer feeds for a pair of front speakers A that support bi-amping, providing improved bass and treble performance. · When bi-amping is used, surround back speakers cannot be used. · For bi-amping, the FRONT L/R terminal posts connect to the front speakers' woofer terminals. And the SURR BACK/ZONE 3 L/R terminal posts connect to the front speakers' tweeter terminals. · Once you've completed the bi-amping connections shown below and turned on the AV receiver, you must set the "Speakers Type(FrontA)" setting to "Bi-Amp" to enable biamping (see page 57).

· When front Speakers A are biamped, front Speakers B must be wired normally or not used. Important: · When making the bi-amping connections, be sure to remove the jumper bars that link the Speakers' tweeter (high) and woofer (low) terminals. · Bi-amping can only be used with speakers that support bi-amping. Refer to your speaker manual. Bi-amping Speaker Hookup 1 Connect the AV receiver's FRONT R positive (+) terminal to the right speaker's positive (+) Woofer (low) terminal.

And connect the AV receiver's FRONT R negative (-) terminal to the right speaker's negative (-) Woofer (low) terminal. Connect the AV receiver's SURR BACK/ZONE 3 R positive (+) terminal to the right speaker's positive (+) Tweeter (high) terminal. And connect the AV receiver's SURR BACK/ZONE 3 R negative (-) terminal to the right speaker's negative (-) Tweeter (high) terminal. Connect the AV receiver's FRONT L positive (+) terminal to the left speaker's positive (+) Woofer (low) terminal. And connect the AV receiver's FRONT L negative (-) terminal to the left speaker's negative (-) Woofer (low) terminal.

Connect the AV receiver's SURR BACK/ZONE 3 L positive (+) terminal to the left speaker's positive (+) Tweeter (high) terminal. And connect the AV receiver's SURR BACK/ZONE 3 L negative (-) terminal to the left speaker's negative (-) Tweeter (high) terminal. 2 3 4 Tweeter (high) Tweeter (high) Woofer (low) Right speaker Woofer (low) Left speaker 23 Connecting the AV receiver--Continued Bridging the Front Speakers A The FRONT L/R and SURR BACK/ZONE 3 L/R terminal posts can be used with front speakers and surround back speakers respectively, or bridged together to provide almost double the output power for the front speakers A. · When bridging is used, surround back speakers cannot be used.



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· For bridging, the positive (+) FRONT L/R and SURR BACK/ZONE 3 L/R terminal posts are used, but the negative (-) FRONT L/R and SURR BACK/ZONE 3 L/R terminals are not.

· Once you've completed the bridging connections shown below and turned on the AV receiver, you must set the "Speakers Type(FrontA)" setting to "BTL" to enable bridging (see page 57). · When front Speakers A are bridged, front Speakers B must be wired normally or not used. Notes: · Use only front speakers with an impedance of 8 ohms or higher for bridging. Failure to do so may seriously damage the AV receiver. · When using bridging, make sure that your front speakers can handle the additional power. Bridged Speaker Hookup 1 Connect the AV receiver's FRONT R positive (+) terminal to the right speaker's positive (+) terminal. And connect the AV receiver's SURR BACK/ZONE 3 R positive (+) terminal to the right speaker's negative (-) terminal. Connect the AV receiver's FRONT L positive (+) terminal to the left speaker's positive (+) terminal. And connect the AV receiver's SURR BACK/ZONE 3 L positive (+) terminal to the left speaker's negative (-) terminal. 2 Right speaker Left speaker 24 Connecting the AV receiver--Continued Bi-amping the Front Speakers B The FRONT WIDE/ZONE 2 L/R and SURR BACK/ZONE 3 L/R terminal posts can be used with front wide speakers and surround back speakers respectively, or bi-amped to provide separate tweeter and woofer feeds for a pair of front speakers B that support bi-amping, providing improved bass and treble performance.

· When bi-amping is used, surround back speakers cannot be used. · For bi-amping, the FRONT WIDE/ZONE 2 L/R terminal posts connect to the front speakers' woofer terminals. And the SURR BACK/ZONE 3 L/R terminal posts connect to the front speakers' tweeter terminals. · Once you've completed the bi-amping connections shown below and turned on the AV receiver, you must set the "Speakers Type(FrontB)" setting to "Bi-Amp" to enable biamping (see page 57). · When front Speakers B are biamped, front Speakers A must be wired normally.

Important: · When making the bi-amping connections, be sure to remove the jumper bars that link the Speaker's tweeter (high) and woofer (low) terminals. · Bi-amping can only be used with speakers that support bi-amping. Refer to your speaker manual. Bi-amping Speaker Hookup 1 Connect the AV receiver's FRONT WIDE/ZONE 2 R positive (+) terminal to the right speaker's positive (+) Woofer (low) terminal. And connect the AV receiver's FRONT WIDE/ZONE 2 R negative (-) terminal to the right speaker's negative (-) Woofer (low) terminal.

Connect the AV receiver's SURR BACK/ZONE 3 R positive (+) terminal to the right speaker's positive (+) Tweeter (high) terminal. And connect the AV receiver's SURR BACK/ZONE 3 R negative (-) terminal to the right speaker's negative (-) Tweeter (high) terminal. Connect the AV receiver's FRONT WIDE/ZONE 2 L positive (+) terminal to the left speaker's positive (+) Woofer (low) terminal. And connect the AV receiver's FRONT WIDE/ZONE 2 L negative (-) terminal to the left speaker's negative (-) Woofer (low) terminal. Connect the AV receiver's SURR BACK/ZONE 3 L positive (+) terminal to the left speaker's positive (+) Tweeter (high) terminal. And connect the AV receiver's SURR BACK/ZONE 3 L negative (-) terminal to the left speaker's negative (-) Tweeter (high) terminal. 2 3 4 Tweeter (high) Tweeter (high) Woofer (low) Right speaker Left speaker Woofer (low) 25 Connecting the AV receiver--Continued Bridging the Front Speakers B The FRONT WIDE/ZONE 2 L/R and SURR BACK/ZONE 3 L/R terminal posts can be used with front wide speakers and surround back speakers respectively, or bridged together to provide almost double the output power for the front speakers B. · When bridging is used, surround back speakers cannot be used. · For bridging, the positive (+) FRONT WIDE/ZONE 2 L/R and SURR BACK/ZONE 3 L/R terminal posts are used, but the negative (-) FRONT WIDE/ZONE 2 L/R and SURR BACK/ZONE 3 L/R terminals are not. · Once you've completed the bridging connections shown below and turned on the AV receiver, you must set the "Speakers Type(FrontB)" setting to "BTL" to enable bridging (see page 57).

· When front Speakers B are bridged, front Speakers A must be wired normally. Notes: · Use only front speakers with an impedance of 8 ohms or higher for bridging. Failure to do so may seriously damage the AV receiver. · When using bridging, make sure that your front speakers can handle the additional power. Bridged Speaker Hookup 1 Connect the AV receiver's FRONT WIDE/ZONE 2 R positive (+) terminal to the right speaker's positive (+) terminal. And connect the AV receiver's SURR BACK/ZONE 3 R positive (+) terminal to the right speaker's negative (-) terminal. Connect the AV receiver's FRONT WIDE/ZONE 2 L positive (+) terminal to the left speaker's positive (+) terminal. And connect the AV receiver's SURR BACK/ZONE 3 L positive (+) terminal to the left speaker's negative (-) terminal. 2 Right speaker Left speaker 26 Connecting the AV receiver--Continued 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 If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead (see page 28). 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) 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. (European and Asian models) Push 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.



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