Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO TX-NR5008. You'll find the answers to all your questions on the ONKYO TX-NR5008 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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ONKYO

AV Receiver

TX-NR5008
TX-NR3008

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.

Made for
iPod iPhone   HD Radio READY   En

Contents

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. @@@@Only use attachments/accessories specified by the manufacturer. @@@@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. En 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 user-serviceable. 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 ON/STANDBY 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. 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 NMB003 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. En 3 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: Indoor FM antenna (24) AM loop antenna (24) Power cord (24) Speaker cable labels (14) Speaker setup microphone (33) Remote controller and two batteries (AA/R6) (Note for China: The battery for the remote controller is not supplied for this unit.) * 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.

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. Using the Remote Controller Installing the Batteries 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. Note · 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 Batteries (AA/R6) a long time, remove the batteries to prevent damage from leakage or corrosion. · Remove expired batteries as soon as possible to prevent damage from leakage or corrosion. 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 Aiming the Remote Controller To use the remote controller, point it at the AV receiver's remote control sensor, as shown below. Transmission Remote control sensor AV receiver ONKYO EUROPE ELECTRONICS GmbH Approx.

16 ft. (5 m) Received Transmitter AV receiver Incoming sensor 15 15 En Approx. 16 ft. (5 m) 4 Contents Introduction

... 86 Connecting the iPod Directly toful and Highly Accurate 32-bit Processing DSP · Jitter Cleaning Circuit Technology · Neural Surround Decoding*7 · DSD Direct for Super Audio CD · Network Capability for Streaming Audio Files · Bi-Amping and BTL Capability · (TX-NR5008) 2 USB Inputs for Memory Devices and iPod®/iPhone® models (Front: 1 (Enables Display of Album Artwork)/Rear: 1) · (TX-NR3008) Front-Panel USB Input for Memory Devices and iPod®/iPhone® models (Enables Display of Album Artwork) · Analog RGB Video Input (D-sub 15) for PC Miscellaneous · (North American models) 40 SIRIUS*12/FM/AM Presets · (Excluding North American models) 40 FM/AM Presets · Dolby Volume*4 · Audyssey MultEQ® XT32*5 to Correct Room Acoustic Problems · Audyssey Dynamic EQ®*5 for Loudness Correction · Audyssey Dynamic Volume®*5 to Maintain Optimal Listening Level and Dynamic Range · Crossover Adjustment (40/50/60/70/80/90/100/120/150/200 Hz) · A/V Sync Control Function (up to 250 ms) · Auto Power-down Function · Bi-Directional Preprogrammed (with onscreen display setup) RI-Compatible Learning Remote with 4 Activities and Mode-Key LEDs · ISF (Imaging Science Foundation) Video Calibration · VLSC*14 (Vector Linear Shaping Circuitry) for All Channels En 6 *10 *1 THX and the THX logo are trademarks of THX Ltd. which may be registered in some jurisdictions. All rights reserved. *2 *3 *12 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). *11 In Europe, using banana plugs to connect speakers to an audio "x.v.

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En 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 (27) STANDBY indicator (27) ZONE 2 indicator (83) ZONE 3 indicator (83) Remote control sensor/transmitter (4) Display (9) (North American models) MASTER VOLUME control and indicator (28) PURE AUDIO button (39) HDMI THRU indicator (65) Input selector buttons (BD/DVD, VCR/DVR, CBL/SAT, GAME, PC, AUX, TAPE, TUNER, TV/CD, PHONO, PORT and NET/USB) (28) (European and Asian models) En 8 The page numbers in parentheses show where you can find the main explanation for each item. PHONES jack (31) ZONE 2, ZONE 3 and OFF buttons (83) TONE button (66, 84) LEVEL button (84) MONITOR OUT button (47) LISTENING MODE buttons (MOVIE/TV, MUSIC, GAME and THX) (39) DIMMER button (North American models) (28) MEMORY button (36) TUNING MODE button (35) TUNING, PRESET (35 to 36), arrow and ENTER buttons SETUP button (46) RETURN button SETUP MIC jack (33) USB port (78, 86) AUX INPUT jacks (HDMI, VIDEO, AUDIO L/R and DIGITAL) (21, 22) Up and Down buttons (66, 84) DISPLAY button (28) POWER switch (European and Asian models) (27) RT/PTY/TP button (European and Asian models) (36) Display For detailed information, see the pages in parentheses. Speaker/channel indicators Z2 (Powered Zone 2) indicator (83) A and B speaker indicator (13) Z3 (Powered Zone 3) indicator (83) Listening mode and format indicators (39, 67) NETWORK indicator (71, 72, 76) Tuning indicators RDS indicator (excluding North American models) (36) AUTO indicator (35) TUNED indicator (35) FM STEREO indicator (35) SLEEP indicator (29) Bi AMP indicator (17, 18) BTL indicator (18, 19) Headphone indicator (31) Audyssey indicator (32, 53) Dynamic EQ indicator (57) (Dolby) Vol indicator (55) Dynamic Vol indicator (58) Message area USB indicator (78, 86) Volume level (28) MUTING indicator (29) Audio input indicators En 9 Rear Panel Illustration is based on TX-NR5008. UNIVERSAL PORT jack IR IN and OUT jacks DIGITAL IN COAXIAL and OPTICAL jacks USB port (TX-NR5008) ETHERNET port REMOTE CONTROL jack RS232 terminal Terminal for control.

HDMI IN and HDMI output (HDMI OUT MAIN and HDMI OUT SUB) jacks MONITOR OUT V and S jacks COMPONENT VIDEO IN and MONITOR OUT jacks ZONE 2 OUT V jack PC IN port FM ANTENNA jack and AM ANTENNA terminal AC INLET GND screw ZONE 2 and ZONE 3 12V TRIGGER OUT jacks Composite video, S-Video and analog audio jacks (BD/DVD IN, VCR/DVR IN and OUT, CBL/SAT IN, GAME IN, PC IN, TAPE IN and OUT, TV/CD IN and PHONO IN) MULTI CH input jacks (FRONT L/R, CENTER, SURR L/R, SURR BACK L/R and SUBWOOFER) PRE OUT jacks (FRONT L/R, CENTER, SURR L/R, SURR BACK L/R, FRONT HIGH/WIDE L/R, SW1, SW2, ZONE 2 L/R and ZONE 3 L/R) SIRIUS antenna jack (North American models) Speaker Terminals (FRONT L/R, CENTER, SURR L/R, SURR BACK/ZONE 3 L/R, FRONT HIGH L/R and FRONT WIDE/ZONE 2 L/R) See "Connecting the AV Receiver" for connection information (13 to 26). En 10 Remote Controller Controlling the AV Receiver To control the AV receiver, press RECEIVER to select Receiver mode. You can also use the remote controller to control Onkyo Blu-ray Disc/DVD player, CD player and other components. See "Entering Remote Control Codes" for more details (93). For detailed information, see the pages in parentheses.

STANDBY button (27) ON button (27) *1 *2 ACTIVITIES buttons (ALL OFF, MY MOVIE, MY TV and MY MUSIC) (31, 98) REMOTE MODE/INPUT SELECTOR buttons (BD/DVD, VCR/DVR, CBL/SAT, GAME, PC, AUX, TAPE, TUNER, TV/CD, PHONO, PORT and NET/ USB) (28) SP LAYOUT button (29) Arrow / / / and ENTER buttons *2 *3 SETUP button (46) LISTENING MODE buttons (MOVIE/TV, MUSIC, GAME and THX) (39) DIMMER button (28) *2 DISPLAY button (28) MUTING button (29) VOL / button (28) RETURN button HOME button (30) SLEEP button (29) Controlling the tuner To control the AV receiver's tuner, press TUNER (or RECEIVER). You can select AM or FM by pressing TUNER repeatedly. Arrow / buttons (35) D.TUN button (TUNER remote mode only) (35) CH +/ button (36) Number buttons (35) *1 *2 *3 When you want to change the remote controller mode without changing the current input source, press MODE and within about 8 seconds, press REMOTE MODE.

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Then, with the AV receiver's remote controller, you can control the component corresponding to the button you pressed.

These buttons can be used when not in receiver mode, and when a REMOTE MODE other than receiver mode is selected. (Pressing HOME switches to Receiver mode.) VIDEO functions as a short cut of Video section of Home menu (30). En 11 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 Blu-ray Discs or 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 speakers (Left and Right) These output the overall sound. Their role in a home theater is to provide a solid anchor for the sound image. They should be positioned facing the listener at about ear level, and equidistant from the TV.

Angle them inward so as to create a triangle, with the listener at the apex. Center speaker This speaker enhances the front 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 speakers. Surround speakers (Left and Right) 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. Subwoofer(s) The subwoofer handles the bass sounds of the LFE (Low-Frequency Effects) channel. The volume and quality of the bass output from your subwoofer will depend on its position, the shape of your listening room, and your listening position. In general, a good bass sound can be obtained by installing the subwoofer in a front corner, or at one-third the width of the wall, as shown.

Surround back speakers (Left and Right) 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. Front high speakers (Left and Right) These speakers are necessary to enjoy Dolby Pro Logic IIz Height, and Audyssey DSXTM. They significantly enhance the spatial experience.

Position them at least 3.3 feet (100 cm) above the front speakers (preferably as high as possible) and at an angle slightly wider than the front speakers. Front wide speakers (Left and Right) These speakers are necessary to enjoy Audyssey DSX. They significantly enhance the spatial experience. Position them well outside of the front speakers.

See also http://www.audyssey.com/technology/dsx.html about optimum speaker placement for Audyssey DSX. Corner position 1/3 of wall position 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. En 12 Connections Connecting the AV Receiver Connecting Your Speakers About Speakers A and Speakers B Installing Speakers A and Speakers B allows you to enjoy up to 7.2-channel surround-sound playback from each speaker configuration. 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 Setup" (50). 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, front 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 (16 to 19). The Speakers A and Speakers B configurations are selected by using SP LAYOUT 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.

Speakers A: 7.2-channel playback Speakers B: Stereo playback 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 topquality stereo speakers. Speakers B FL FL SW1 C FR SW2 FR FL FL SW1 C FR SW2 SR 8ohms Normal BTL Not Act Not Act No Speakers A Speakers B Speakers A: 5.2-channel playback Speakers B: 2.

1-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 high-power stereo speakers, the subwoofer is used with Speakers A and Speakers B. 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(Front A) Speakers Type(Front B) Powered Zone 2 Powered Zone 3 Front High + Front Wide 6ohms Normal Normal Not Act Not Act No 21. Speaker Settings Speaker Impedance Speakers Type(Front A) Speakers Type(Front B) Powered Zone 2 Powered Zone 3 Front High + Front Wide 22.

Speaker Configuration Subwoofer Front Center Surround Surround Back Use Use Use Use Use Speakers A 22. Speaker Configuration Subwoofer Front Center Surround Surround Back Use Use Use Use Not Use 22. Speaker Configuration Subwoofer Front Center Surround Surround Back Not Use Use Not Use Not Use Not Use Speakers B 22. Speaker Configuration Subwoofer Front Center Surround Surround Back Use Use Not Use Not Use Not Use Note · You cannot set speaker impedance individually for Speakers A and Speakers B. In addition, when BTL is connected, it is fixed to 8 ohms. En 13 Speaker Configuration The following table indicates the channels you should use depending on the number of speakers that you have. For 9.2-channel surround-sound playback, you need 9 speakers and 2 powered subwoofers. Number of speakers Center speaker Surround speakers Surround back speaker*1 Surround back speakers Front high speakers Front wide speakers *1 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" (51).

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. 2 3 4 5 6 7 7 7 8 8 9 9 9 10 11 Front speakers 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, 2 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 (32) or manually (50). Attaching the Speaker Cable Labels The AV receiver's positive (+) speaker terminals are all red (the negative () speaker terminals are all black). Speaker Front left, Front high left, Front wide left, Zone 2 left Front right, Front high right, Front wide right, Zone 2 right Center Surround left Surround right Surround back left, Zone 3 left Surround back right, Zone 3 right Color White Red Green Blue Gray Brown Tan · 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. 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 table above. Then all you need to do is to match the color of each label to the corresponding speaker terminal. En 14 Connecting the Speaker Cables Screw-type speaker terminals 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. 1/2" to 5/8"(12 to 15 mm) Using Banana Plugs (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. 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 En 15 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 Note · 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 Setup" (50). · You can choose which of the speakers you want to use with the Speakers A or Speakers B configuration (52). · When you use the Speakers B configuration, front high speakers cannot be used. En 16 Using Dipole Speakers You can use dipole speakers for the surround and surround back 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 dipole speakers should be positioned so that their arrows point toward the TV/screen, while the surround back dipole speakers should be positioned so that their arrows point toward each other, as shown. Front speakers Center speaker Surround speakers Subwoofer(s) Surround back speakers Front high speakers Front wide speakers Dipole speakers Normal speakers TV/screen TV/screen Connecting the Powered Subwoofers Using a suitable cable, connect the AV receiver's SW1, SW2 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 SW1, SW2 PRE OUT 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 SW1 PRE OUT. Powered subwoofer LINE INPUT LINE INPUT LINE INPUT LINE INPUT 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(Front A)" setting to "Bi-Amp" to enable biamping (51). · 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 be used only with speakers that support bi-amping. Refer to your speaker manual. Right speaker Tweeter (high) Woofer (low) Left speaker En 17 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. · 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(Front A)" setting to "BTL" to enable bridging (51).

· When front speakers A are bridged, front speakers B must be wired normally or not used. Note · 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. Right speaker Left speaker 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 Tweeter (high) the SURR BACK/ZONE 3 L/R terminal posts connect to Woofer (low) 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(Front B)" setting to "Bi-Amp" to enable Right speaker biamping (51). · 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. Left speaker En 18 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 Right speaker below and turned on the AV receiver, you must set the "Speakers Type(Front B)" setting to "BTL" to enable bridging (51). · When front speakers B are bridged, front speakers A must be wired normally. Note · 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. Left speaker Connecting a Power Amplifier If you want to use a more powerful power amplifier and use the AV receiver as a preamp, connect it to the PRE OUT jacks, and connect all speakers to the power amplifier. CENTER PRE OUT FRONT HIGH/ WIDE L L L L R FRONT R SURR R SURR BUCK R Power amplifier FRONT HIGH OR FRONT WIDE CENTER L L L L R FRONT R SURR R SURR BUCK R Note · Specify "None" for the channel that you don't want to output (52). Front left speaker Center speaker Front right speaker Surround left speaker Surround right speaker Surround back left speaker Surround back right speaker Front high/Front wide left speaker Front high/Front wide right speaker En 19 About AV Connections Connected image with AV components HDMI cable AV receiver : Video & Audio Other cables : Video AV receiver : Audio TV, projector, etc. Blu-ray Disc/ DVD player Game console TV, projector, etc. Blu-ray Disc/ DVD player Game console · Before making any AV connections, read the manuals supplied with your AV components. · Don't connect the power cord until you've completed and double-checked all AV connections. · 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. Right! Wrong! AV Cables and Jacks Signal Video and Audio Video Cable HDMI Component video Jack HDMI Description HDMI connections can carry digital video and audio.

Component video separates the luminance (Y) and color difference signals (PB/CB, PR/CR), providing the best picture quality (some TV manufacturers label their component video sockets slightly differently). This is a conventional analog interface to connect a PC and a display device (also called D-Sub or D-subminiature). S-Video separates the luminance and color signals and provides better picture quality than composite video. Y PB/CB PR/CR Green Blue Red Analog RGB S-Video Composite video Audio Optical digital audio Coaxial digital audio Analog audio (RCA) Multichannel analog audio (RCA) L V Yellow OPTICAL Composite video is commonly used on TVs, VCRs, and other video equipment. Optical digital connections allow you to enjoy digital sound such as PCM*, Dolby Digital or DTS. The audio quality is the same as coaxial. Coaxial digital connections allow you to enjoy digital sound such as PCM*, Dolby Digital or DTS. The audio quality is the same as optical. Analog audio connections (RCA) carry analog audio. Orange White Red R This cable carries multichannel analog audio and is typically used to connect DVD players with a 7.

1-channel analog audio output. Several standard analog audio cables can be used instead of a multichannel cable. * Available sampling rate for PCM input signal is 32/44.1/48/88.2/96 kHz.

Even 176.4/192 kHz is effective in case of the HDMI connection. Note · The AV receiver does not support SCART plugs. · The AV receiver's optical digital jacks have shutter-type covers that open when an optical plug is inserted and close when it's removed. Push plugs in all the way.

Caution En · To prevent shutter damage, hold the optical plug straight when inserting and removing. 20 Connecting Your Components with HDMI VCR or DVD recorder/Digital Video Recorder Game console TV, projector, etc.

Personal computer Blu-ray Disc/DVD player Camcorder Satellite, cable, set-top box, etc. Connect your components to the appropriate jacks. The default input assignments are shown below. : Assignment can be changed (48 to 49). Jack Input HDMI IN 1 HDMI IN 2 HDMI IN 3 HDMI IN 4 HDMI IN 5 HDMI IN 6 HDMI IN 7 AUX INPUT HDMI Output HDMI OUT MAIN HDMI OUT SUB Signal Audio/Video Components Blu-ray Disc/DVD player VCR or DVD recorder/Digital Video Recorder Satellite, cable, set-top box, etc. Game console Personal computer Other components Other components Camcorder TV Projector, etc. Assignable Refer to "About HDMI" (109) and "Using an RIHD-compatible TV, Player, or Recorder" (110). Audio return channel (ARC) function Audio return channel (ARC) function enables an HDMI capable TV to send the audio stream to the HDMI OUT MAIN of the AV receiver.

To use this function, you must select the TV/CD input selector. · To use ARC function, you must select the TV/CD input selector, your TV must support ARC function and "HDMI Control(RIHD)" is set to "On" (65). Tip · To listen to audio received by the HDMI IN jacks through your TV's speakers: Set the "TV Control" setting to "On" (65) for an -compatible TV. Set the "Audio TV Out" setting to "On" (64) when the TV is not compatible with Set your Blu-ray Disc/DVD player's HDMI audio output setting to PCM. To listen to TV audio through the AV receiver, see "Connecting Your Components" (22). Note · When listening to an HDMI component through the AV receiver, set the HDMI component so that its video can be seen on the TV screen (on the TV, select the input of the HDMI component connected to the AV receiver). If the TV power is off or the TV is set to another input source, this may result in no sound from the AV receiver or the sound may be cut off. · When the "Audio TV Out" setting is set to "On" (64) to hear from your TV's speakers, by controlling the AV receiver's volume, the sound will be output from the AV receiver's speakers, too. When the "TV Control" setting is set to "On" (65) to hear from speakers of -compatible TV, by controlling the AV receiver's volume, the AV receiver's speakers will produce sound while the TV's speakers are muted. To stop the AV receiver's speakers producing sound, change the settings, change your TV's settings, or turn down the AV receiver's volume.

*or the "TV Control" setting to "Off". En 21 Connecting Your Components Front Rear *1 Connect your components to the appropriate jacks. The default input assignments are shown below. : Assignment can be changed (49, 50). No.*

*Jack AUX INPUT VIDEO AUDIO L/R DIGITAL COMPONENT VIDEO IN 1 (BD/DVD) IN 2 (CBL/SAT) IN 3 (GAME) MONITOR OUT DIGITAL COAXIAL IN 1 (BD/DVD) IN 2 (VCR/DVR) IN 3 (CBL/SAT) OPTICAL IN 1 (GAME) IN 2 (TV/CD) IN 3*1 MONITOR OUT BD/DVD IN VCR/DVR IN CBL/SAT IN GAME IN PC IN TAPE IN TV/CD IN PHONO IN UNIVERSAL PORT PC IN*3 Multichannel input*4 Analog audio/ video Analog RGB Analog audio Analog audio Composite video and S-Video Analog audio, composite video and S-Video Digital audio Signal Composite video Analog audio Digital audio Component video Blu-ray Disc/DVD player Satellite, cable, set-top box, etc. Game console TV, projector, etc. Blu-ray Disc/DVD player VCR or DVD recorder/digital video recorder Satellite, cable, set-top box, etc. Game console TV, CD player Other components TV, projector, etc. Blu-ray Disc/DVD player VCR or DVD recorder/digital video recorder Satellite, cable, set-top box, etc.*

*Game console Personal computer Cassette tape deck, MD, CD-R TV, CD player, Turntable*2 Turntable*2 Universal port optional dock (UP-A1 etc.) Personal computer DVD player, DVD-Audio or Super Audio CD-capable player, or an MPEG decorder Components Camcorder, etc Assignable En 22 Note TX-NR5008 Connect a turntable (MM) that has built-in a phono preamp to TV/CD IN or connect it to PHONO IN with the phono preamp turned off. If your turntable (MM) doesn't have a phono preamp, connect to PHONO IN. If your turntable has a moving coil (MC) type cartridge, you'll need a commercially available MC head amp or MC transformer to connect to PHONO IN. See your turntable's manual for details. If your turntable has a ground wire, connect it to the AV receiver's GND screw. With some turntables, connecting the ground wire may produce an audible hum. If this happens, disconnect it. *3 When you connect your personal computer to PC IN and select PC input selector, video of the personal computer is output from HDMI output. However, because the AV receiver selects the video input in the order of HDMI > component > analog RGB, if you have assigned HDMI IN to the PC input selector, the AV receiver will output signals from HDMI IN in priority to PC IN.*

**4 Before using the multichannel input, you must assign it to an input selector. See "Analog Audio Input" (50). To select the multichannel input, see "Audio Selector" (68). To adjust the subwoofer sensitivity for the multichannel input, see "Subwoofer Input Sensitivity" (50). · The AV receiver can output audio and video signals from the AUX INPUT jacks to the VCR/DVR OUT jacks. · With connection , you can listen and record audio from the external components while you are in Zone 2/3. You can listen and record audio from the external components in the main room; you can listen to the audio in Zone 2/3 as well. · With connection , you can enjoy Dolby Digital and DTS. (To record or listen in Zone 2/3 as well, use and .) *2 *1 How to record the video With the connections described above, you cannot record the video through the AV receiver.*

To make a connection for video recording (38). Connecting Onkyo Components Note · 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. · While Zone 2 or Zone 3 is on, the Auto Power On and Direct Change functions do not work. · Do not use connections if you use HDMI Control (RIHD) (65). IN L Step 1: Make sure that each Onkyo component is connected with an analog audio cable (connection in the hookup examples) (22). Step 2: Make the connection (see illustration below). Step 3: If you're using an RI Dock, or cassette tape deck, change the Input Display (31). With (Remote Interactive), you can use the following special functions: Auto Power On When you start playback on a component connected via while the AV receiver is on Standby, the AV receiver will automatically turn on and select that component as the input source.

Direct Change When playback is started on a component connected via , the AV receiver automatically selects that component as the input source. Remote Control You can use the AV receiver's remote controller to control your other -capable Onkyo components, pointing the remote controller at the AV receiver's remote control sensor instead of the component. You must enter the appropriate remote control code first (93).

R TV/CD REMOTE CONTROL IN L R BD/DVD e.g., CD player R L ANALOG AUDIO OUT e.g., DVD player R L ANALOG AUDIO OUT En 23 Connecting Antenna This section explains how to connect the supplied indoor FM antenna and AM loop antenna. The AV receiver won't pick up any radio signals without any antenna connected, so you must connect the antenna to use the tuner. Caution (North American models) (European and Asian models) · Be careful that you don't injure yourself when using thumbtacks. Insert the plug fully into the jack. Insert the plug fully into the jack. Push.

Insert wire. Release. Thumbtacks, etc. Assembling the AM loop antenna. Indoor FM antenna (supplied) AM loop antenna (supplied) Note · Once your AV receiver is ready for use, you'll need to tune into a radio station and position the antenna to achieve the best possible reception.

· Keep the AM loop antenna as far away as possible from your AV receiver, TV, speaker cables, and power cords. Tip · If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead. · If you cannot achieve good reception with the supplied indoor AM loop antenna, try using it with a commercially available outdoor AM antenna. Connecting the Power Cord Note · Before connecting the power cord, connect all of your speakers and AV components. · Turning on the AV receiver may cause a momentary power surge that might interfere with other electrical equipment on the same circuit.

If this is a problem, plug the AV receiver into a different branch circuit. · Do not use a power cord other than the one supplied with the AV receiver. The supplied power cord is designed exclusively for use with the AV receiver and should not be used with any other equipment. · Never disconnect the power cord from the AV receiver while the other end is still plugged into a wall outlet. Doing so may cause an electric shock. Always disconnect the power cord from the wall outlet first, and then the AV receiver. Step 1: Connect the supplied power cord to the AV receiver's AC INLET. To AC wall outlet Step 2: Plug the power cord into an AC wall outlet. En 24 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 components.

Use the following sections as a guide. Video Connection Formats Video component can be connected by using any one of the following video connection formats: composite video, S-Video, PC IN (Analog RGB), component video or HDMI, the latter offering the best picture quality. The AV receiver can upconvert and downconvert between video formats, depending on the "Monitor Out" setting (47), which generally determines whether video signals are upconverted for the component video output or the HDMI output. For optimal video performance, THX recommends that video signals pass through the system without upconversion (e.g., component video input through to component video output). To by-pass video upconversion in the AV receiver, simultaneously press the VCR/DVR and RETURN on the AV receiver. While continuing to hold down the VCR/DVR, press RETURN to toggle until "Skip" appears on the display. Release both buttons. To use the video upconversion in the AV receiver, repeat the above process until "Use" appears on the display and release the buttons.

"Monitor Out" setting set to "HDMI Main" or "HDMI Sub" Video input signals flow through the AV receiver as shown, with composite video, S-Video, PC IN (Analog RGB) and component video sources all being upconverted for the HDMI output. Use these settings if you connect the AV receiver's HDMI OUT MAIN or HDMI OUT SUB, respectively, to your TV. The composite video, S-Video and component video outputs pass through their respective input signals as they are. Note · If not connected to the same output you have selected in the "Monitor Out" setting, the "Monitor Out" setting will be automatically switched to "Analog" (26). In this case, the setting of the output resolution will be that for HDMI output (47).

Moreover, it will be switched to "1080i" when "1080p" or "1080p/24" is selected, and to "Through" when "Auto" is selected. Video Signal Flow Chart Blu-ray Disc/DVD player, etc. Composite S-Video Component PC IN (Analog RGB) HDMI IN AV receiver MONITOR OUT Composite S-Video Component HDMI TV, projector, etc. "Monitor Out" setting set to "Both", "Both(Main)" or "Both(Sub)" Video input signals flow through the AV receiver as shown, Video Signal Flow Chart with composite video, S-Video, PC IN (Analog RGB) and Blu-ray Disc/DVD player, etc. component video sources all being upconverted for both HDMI outputs.

Use these settings if you connect the AV receiver's HDMI OUT MAIN and HDMI OUT SUB to Composite S-Video Component HDMI PC IN (Analog RGB) your TVs. IN The composite video, S-Video and component video outputs pass through their respective input signals as they are. AV receiver Both: Video signals are output from both HDMI outputs at the resolution supported by both TVs. You cannot select "Resolution" setting. MONITOR OUT Component HDMI S-Video Composite Both(Main): Video signals are output from both HDMI outputs but HDMI OUT MAIN will become a priority; depending on the resolution, video signals may not be TV, projector, etc output from HDMI OUT SUB. Both(Sub): Video signals are output from both HDMI outputs but HDMI OUT SUB will become a priority; depending on the resolution, video signals may not be output from HDMI OUT MAIN. Note · The "Monitor Out" setting will be automatically switched to "Analog" (47) if not connected to both outputs when "Both" is selected or if not connected to a priority output when "Both(Main)" or "Both(Sub)" is selected. En 25 "Monitor Out" setting set to "Analog" Video input signals flow through the AV receiver as shown, with composite video, S-Video and PC IN (Analog RGB) sources being upconverted for the component video output. Use this setting if you connect the AV receiver's COMPONENT VIDEO MONITOR OUT to your TV. Composite video is upconverted to S-Video and S-Video is downconverted to composite video.

Note that these conversions only apply to the MONITOR OUT V and S outputs, not the VCR/DVR OUT V and S outputs. The composite video, S-Video and component video outputs pass through their respective input signals as they are. This signal flow also applies when the "Resolution" setting is set to "Through" (48). Video Signal Flow Chart Blu-ray Disc/DVD player, etc. Composite S-Video Component PC IN (Analog RGB) HDMI IN AV receiver MONITOR OUT Composite S-Video Component HDMI *1 TV, projector, etc. *1 For details, refer to "Video Resolution Chart" (115). Video Signal Flow and the Resolution Setting When the "Monitor Out" setting is set to "Analog" (47), if the "Resolution" setting is set to anything other than "Through" (48), the video signal flow will be as shown here, with composite video, PC IN (Analog RGB) and S-Video sources being upconverted for the component video output. The composite video, S-Video and component video outputs pass through their respective analog input signals as they are. HDMI input signals are not output. Video Signal Flow Chart Blu-ray Disc/DVD player, etc.

Composite S-Video Component PC IN (Analog RGB) HDMI IN AV receiver MONITOR OUT Composite S-Video Component HDMI TV, projector, etc. Audio Connection Formats Audio component can be connected by using any of the following audio connection formats: analog, analog multichannel, optical, coaxial, or HDMI. When choosing a connection format, bear in mind that the AV receiver does not convert digital input signals for analog line outputs and vice versa. For example, audio signals connected to an optical or coaxial digital input are not output by the analog VCR/DVR OUT. If signals are present at more than one input, the inputs will be selected automatically in the following order of priority: HDMI, digital, analog.

*1 *2 Audio Signal Flow Chart Blu-ray Disc/DVD player, etc. Analog Multichannel Coaxial HDMI Optical IN AV receiver *1 *3 *1*3 OUT *1 *1 Analog HDMI *1 *2 TV, projector, etc. Depends on the "Audio TV Out" setting (64). This setting is available, when "Audio Return Channel" setting is set to "Auto" (65), you must select the TV/CD input selector and your TV must support ARC function. Only the front L/R channels are output.

*3 En 26 Turning On & Basic Operations Turning On/Off the AV Receiver (North American models) ON/STANDBY STANDBY indicator (European and Asian models) ON/STANDBY STANDBY indicator STANDBY ON RECEIVER POWER Turning On 1 2 (European and Asian models) Set POWER to the ON position ( ) on the front panel. The AV receiver enters Standby mode, and the STANDBY indicator comes on. Press ON/STANDBY on the front panel. or Press RECEIVER followed by ON on the remote controller. The AV receiver comes on, the display lights, and the STANDBY indicator goes off. Pressing the remote controller's ON again will turn on any components connected via . Turning Off Press ON/STANDBY on the front panel. or Press RECEIVER followed by STANDBY on the remote controller. The AV receiver will enter Standby mode. To prevent any loud surprises when you turn on the AV receiver, always turn down the volume before you turn it off.

(European and Asian models) To completely shut down the AV receiver, set POWER to the OFF position ( ). En 27 Basic Operations This manual describes the procedure using the remote controller unless otherwise specified. Displaying Source Information You can display various information about the current input source as follows. (Components connected to the UNIVERSAL PORT jack are excluded.) Press RECEIVER followed by DISPLAY repeatedly to cycle through the available information. Tip · Alternatively, you can use the AV receiver's DISPLAY. Selecting the Language Used for the Onscreen Setup Menus You can determine the language used for the onscreen setup menus. See "Language" in the "OSD Setup" (63). Playing the Connected Component Operating on the AV receiver The following information can typically be displayed. Input source Listening mode*1 Signal format*2 Sampling frequency Input signal resolution Output resolution *1 1 2 Use the input selector buttons to select the input source.

Start playback on the source component. See also: · "Controlling Other Components" (91) · "Controlling iPod" (86) · "Listening to the Radio" (35) To adjust the volume, use the MASTER VOLUME control. Select a listening mode and enjoy! See also: · "Using the Listening Modes" (39) · "Audyssey" (57) 3 4 *2 Operating with the remote controller 1 2 Press RECEIVER followed by INPUT SELECTOR. Start playback on the source component. See also: · "Controlling Other Components" (91) · "Controlling iPod" (86) · "Listening to the Radio" (35) To adjust the volume, use VOL / .

Select a listening mode and enjoy! See also: · "Using the Listening Modes" (39) · "Audyssey" (57) The input source is displayed with the default name even when you have entered a custom name in "Name Edit" (59). If the input signal is analog, no format information is displayed. If the input signal is PCM, the sampling frequency is displayed. If the input signal is digital but not PCM, the signal format and the number of channels is displayed. For some digital input signals, including multichannel PCM, the signal format, number of channels, and sampling frequency is displayed.

Information is displayed for about three seconds, then the previously displayed information reappears. Setting the Display Brightness You can adjust the brightness of the AV receiver's display. Press RECEIVER followed by DIMMER repeatedly to select: · Normal + MASTER VOLUME indicator lights. · Normal + MASTER VOLUME indicator goes off. · Dim + MASTER VOLUME indicator goes off. · Dimmer + MASTER VOLUME indicator goes off. Tip · (North American models) Alternatively, you can use the AV receiver's DIMMER. 3 4 En 28 Muting the AV Receiver You can temporarily mute the output of the AV receiver. Press RECEIVER followed by MUTING. The output is muted and the MUTING indicator flashes on the display.

Tip · To unmute, press MUTING again or adjust the volume. · The Mute function is cancelled when the AV receiver is set to Standby. Selecting Speaker Layout You can prioritize which speakers you want to use. Press RECEIVER followed by SP LAYOUT repeatedly. 9.2 ch playback Speaker Layout:SB/FH: The sounds from surround back and front high speakers are output by priority. Speaker Layout:SB/FW: The sounds from surround back and front wide speakers are output by priority.