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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO TX-NR708. You'll find the answers to all your questions on the ONKYO TX-NR708 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-NR708](#)
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**AV Receiver**

# *TX-NR708*

**Instruction Manual**

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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. Use only with the cart, stand, PORTABLE CART WARNING tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid S3125A injury from tip-over. 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.*



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94 To reset the AV receiver to its factory defaults, turn it on and, while holding down VCR/DVR, press ON/STANDBY ( 84). En 5 Features Amplifier · 110 Watts/Channel @ 8 ohms (FTC) · 170 Watts/Channel @ 6 ohms (IEC) · 185 Watts/Channel @ 6 ohms (JEITA) · WRATWide Range Amplifier Technology (5 Hz to 100 kHz bandwidth) · Linear Optimum Gain Volume Circuitry · H.C.P.S. (High Current Power Supply) Massive High Power Transformer Miscellaneous · 40 SIRIUS\*9/FM/AM Presets (North American models) · 40 FM/AM Presets (excluding North American models) · Audyssey MultEQ®\*4 to Correct Room Acoustic Problems · Audyssey Dynamic EQ®\*4 for Loudness Correction · Audyssey Dynamic Volume®\*4 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 · On-Screen Display via HDMI · Preprogrammed (with onscreen display setup) RI-Compatible Learning Remote with 4 Activities and ModeKey LEDs \*1 Processing · THX Select2 Plus\*1 Certified · HDMI Video Upscaling (to 1080p Compatible) with Faroudja DCDi Cinema Enhancement · HDMI (Ver.1.4a with Audio Return Channel, 3D), DeepColor, x.v.Color\*, Lip Sync, DTS\*2-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD\*3, Dolby Digital Plus, DSD and Multi-CH PCM · Dolby Pro Logic IIz\*3 New Surround Format (fronthigh) · Audyssey DSXTM\*4 for New Surround Channels (frontwide/front-high) · 4 DSP Modes for Gaming; Rock/Sports/Action/RPG · Non-Scaling Configuration · A-Form Listening Mode Memory · Direct Mode · Pure Audio Mode · Music Optimizer\*5 for Compressed Digital Music files · 192 kHz/24-bit D/A Converters · Powerful and Highly Accurate 32-bit Processing DSP · Jitter Cleaning Circuit Technology Manufactured under license from THX Ltd.



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S. and foreign patents pending. Audyssey MultEQ®, Audyssey DSXTM, Audyssey Dynamic Volume® and Audyssey Dynamic EQ® are registered trademarks and trademarks of Audyssey Laboratories. Music OptimizerTM is a trademark of Onkyo Corporation. Services available may vary depending on the region. "HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries." · Network Capability for Streaming Audio Files · Bi-Amping Capability for FL/FR with SBL/SBR · Analog RGB Video Input (D-sub 15) for PC En 6 \*7 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). \*8 \*9 In Europe, using banana plugs to connect speakers to an audio amplifier is prohibited. SIRIUS, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All rights reserved. Service not available in Alaska and Hawaii. THX Select2 Plus Before any home theater component can be THX Select2 Plus certified, it must pass a rigorous series of quality and performance tests. Only then can a product feature the THX Select2 Plus logo, which is your guarantee that the Home Theater products you purchase will give you superb performance for many years to come. THX Select2 Plus requirements define hundreds of parameters, including power amplifier performance, and pre-amplifier performance and operation for both digital and analog domains. THX Select2 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. \* \* \* iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. iPad is a trademark of Apple Inc. "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. "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." En 7 Front & Rear Panels Front Panel (North American and Taiwan models) (European, Australian and Asian models) 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 ( 24) STANDBY indicator ( 24) HDMI THRU indicator ( 56) ZONE 2 indicator ( 70) Remote control sensor ( 4) ZONE 2, OFF, ZONE 2 LEVEL/TONE LEVEL and TONE buttons ( 58, 70 to 71) Display ( 9) LISTENING MODE buttons (MOVIE/TV, MUSIC and GAME) ( 36) DIMMER button (North American and Taiwan models) ( 25) MEMORY button ( 33) TUNING MODE button ( 32) DISPLAY button ( 25) TUNING, PRESET ( 32 to 33), arrow and ENTER buttons RETURN button MASTER VOLUME control and indicator ( 25) PHONES jack ( 27) AUX INPUT HDMI jack ( 18) PURE AUDIO button and indicator ( 36) Input selector buttons (BD/DVD, VCR/DVR, CBL/SAT, GAME, PC, AUX, TUNER, TV/CD, PHONO, PORT and NET/USB) ( 25) USB port ( 67) AUX INPUT LINE IN jack ( 19) AUX INPUT VIDEO jack ( 19) AUX INPUT AUDIO jacks ( 19) SETUP MIC jack ( 29) RT/PTY/TP button (European, Australian and Asian models) ( 33) En SETUP button ( 42) 8 Display For detailed information, see the pages in parentheses. Speaker/channel indicators Z2 (Powered Zone 2) indicator ( 70) Listening mode and format indicators ( 36, 58) NETWORK indicator ( 61) Tuning indicators RDS indicator (excluding North American and Taiwan models) ( 33) AUTO indicator ( 32) TUNED indicator ( 32) FM STEREO indicator ( 32) SLEEP indicator ( 26) Bi AMP indicator ( 16) Headphone indicator ( 27) Audyssey indicator ( 29, 49) Dynamic EQ indicator ( 49) Dynamic Vol indicator ( 50) Message area USB indicator ( 67) Volume level ( 25) MUTING indicator ( 26) Audio input indicators En 9 Rear Panel (North American and Taiwan models) \* (European, Australian and Asian models) DIGITAL IN COAXIAL and OPTICAL jacks RS232 port Terminal for control. REMOTE CONTROL jack ETHERNET port UNIVERSAL PORT jack SIRIUS antenna jack (North American models) MONITOR OUT V and S jacks HDMI IN and OUT jacks COMPONENT VIDEO IN and MONITOR OUT jacks IR IN jack ZONE 2 12V TRIGGER OUT jack FM ANTENNA jack and AM ANTENNA terminal PC IN port Power cord (North American and Taiwan models) GND screw \* Composite, S-Video and analog audio jacks (BD/DVD IN, VCR/DVR IN and OUT, CBL/SAT IN, GAME IN, PC IN, TV/CD IN and PHONO IN) Multichannel 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, SB/FH/FW\* L/R and SUBWOOFER) SB...Surround Back, FH...Front High, FW...Front Wide ZONE 2 LINE OUT jacks Speaker Terminals (FRONT L/R, CENTER, SURR L/R, SURR BACK L/R, FRONT HIGH L/R and FRONT WIDE/ZONE 2 L/R) AC INLET (European, Australian and Asian models) See "Connecting the AV Receiver" for connection information ( 13 to 23).



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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 ( 79). For detailed information, see the pages in parentheses. STANDBY button ( 24) ON button ( 24) \*1 ACTIVITIES buttons (ALL OFF, MY MOVIE, MY TV and MY MUSIC) ( 28, 82) REMOTE MODE/INPUT SELECTOR buttons (BD/DVD, VCR/DVR, CBL/SAT, GAME, PC, AUX, TUNER, TV/CD, PHONO, PORT and NET/USB) ( 25) SP LAYOUT button ( 26) \*2 Arrow /// and ENTER buttons SETUP button ( 42) LISTENING MODE buttons (MOVIE/TV, MUSIC, GAME and THX) ( 36) DIMMER button ( 25) DISPLAY button ( 25) MUTING button ( 26) VOL / button ( 25) RETURN button HOME button ( 26) SLEEP button ( 26) 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 ( 32) D.TUN button (TUNER remote mode only) ( 32) CH +/- button ( 33) Number buttons ( 32) \*1 \*2 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. Then, with the AV receiver's remote controller, you can control the component corresponding to the button you pressed. VIDEO functions as a short cut of HOME. 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 Speaker Configuration The following table indicates the channels you should use depending on the number of speakers that you have. For 7.1-channel surround-sound playback, you need 7 speakers and a powered subwoofer. Number of speakers Center speaker

Surround speakers Surround back speaker\*1\*2 Surround back speakers\*2 Front high speakers\*2 Front wide speakers\*2 \*1 \*2 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" ( 45). 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. · 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 L terminals. Front high, surround back and front wide speakers cannot be used at the same time. No matter how many speakers you use, a powered subwoofer is recommended for a really powerful and solid bass.

To get the best from your surround sound system, you need to set the speaker settings. You can do this automatically ( 29) or manually ( 45). 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 Surround back right Color White Red Green Blue Gray Brown Tan · Don't connect more than one cable to each speaker terminal.



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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 13 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. 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 L terminals. Front high right speaker Front wide right speaker Front right speaker Front left speaker 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 14 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 a Powered Subwoofer Using a suitable cable, connect the AV receiver's SUBWOOFER PRE OUT jack to an input on your powered subwoofer, as shown. If your subwoofer is unpowered and you're using an external amplifier, connect the SUBWOOFER PRE OUT jack to an input on the amp. You can connect the powered subwoofer with two SUBWOOFER PRE OUT jacks respectively.

The same signal is output from each jack. Powered subwoofer LINE INPUT LINE INPUT LINE INPUT LINE INPUT En 15 Bi-amping the Front Speakers The FRONT L/R and SURR BACK 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 that support bi-amping, providing improved bass and treble performance. · When bi-amping is used, the AV receiver is able to drive up to a 5.1 speaker system in the main room. · For bi-amping, the FRONT L/R terminal posts connect to the front speakers' woofer terminals; the SURR BACK 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)" setting to "Bi-Amp" to enable biamping ( 45). Right speaker Left speaker Tweeter (high) Woofer (low) 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. 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.

\*1 FRONT L CENTER PRE OUT SURR L SB/FH/FW L R R FRONT L CENTER SURR L SURR BACK OR FRONT HIGH OR FRONT WIDE L Power amplifier R R R Note \*1 Specify "None" for the channel that you don't want to output ( 45). SB...Surround Back, FH...Front High, FW...Front Wide Front left speaker Center speaker Front right speaker Surround left speaker Surround right speaker Surround back/Front wide/Front high left speaker\*1 Surround back/Front wide/Front high right speaker\*1 En 16 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) 1/8" (3.5 mm) Stereo mini plug 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 analog audio. 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.



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Push plugs in all the way.

Caution · To prevent shutter damage, hold the optical plug straight when inserting and removing. En 17 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 ( 43). Jack Input HDMI IN 1 HDMI IN 2 HDMI IN 3 HDMI IN 4 HDMI IN 5 HDMI IN 6 AUX INPUT HDMI Output HDMI OUT 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 Camcorder TV, projector, etc. Assignable Refer to "About HDMI" ( 91) and "Using an RIHD-compatible TV, Player, or Recorder" ( 92). Audio return channel (ARC) function Audio return channel (ARC) function enables an HDMI capable TV to send the audio stream to the HDMI OUT 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" ( 55). Tip · To listen to audio received by the HDMI IN jacks through your TV's speakers: Set the "TV Control" setting to "On" ( 56) for an -compatible TV. Set the "Audio TV Out" setting to "On" ( 55) 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" ( 19). 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" ( 55) 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" ( 56) 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 18 Connecting Your Components The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the MONITOR OUT V, MONITOR OUT S or the COMPONENT VIDEO MONITOR OUT, use the AV receiver's display when changing settings. Front Rear Connect your components to the appropriate jacks. The default input assignments are shown below. : Assignment can be changed ( 44). No. Jack AUX INPUT LINE IN VIDEO AUDIO L/R COMPONENT VIDEO DIGITAL IN 1 (BD/DVD) IN 2 (CBL/SAT) MONITOR OUT COAXIAL IN 1 (BD/DVD) IN 2 (VCR/DVR) IN 3 (CBL/SAT) OPTICAL MONITOR OUT BD/DVD IN VCR/DVR IN CBL/SAT IN GAME IN PC IN TV/CD IN Analog audio IN 1 (GAME) IN 2 (TV/CD) Composite video and S-Video Analog audio, composite video and S-Video Digital audio Signal Analog audio Composite video Analog audio Component video Blu-ray Disc/DVD player Satellite, cable, set-top box, etc. 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 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 TV, CD player, cassette tape deck, MD, CD-R, Turntable\*1 Turntable\*1 Analog audio/ video Analog RGB Analog audio Universal port optional dock (UP-A1 etc.) Personal computer DVD player, DVD-Audio or Super Audio CD-capable player, or an MPEG decoder \*2 \*3 Components Portable audio player Camcorder, etc Assignable PHONO IN UNIVERSAL PORT PC IN Multichannel input En 19 Note 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.

\*2 When you connect your personal computer to PC IN and select PC input selector, video of the personal computer is output from HDMI OUT. 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. \*3 To select the multichannel input, select the BD/DVD input selector and see "Audio Selector" ( 59). To adjust the subwoofer sensitivity for the multichannel input, see "Subwoofer Input Sensitivity" ( 44). · 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. You can listen and record audio from the external components in the main room; you can listen to the audio in Zone 2 as well. · With connection , you can enjoy Dolby Digital and DTS. (To record or listen in Zone 2 as well, use and .) \*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 ( 35). 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 is on, the System On/Auto Power On and Direct Change functions do not work. · Do not use RI connections if you use HDMI Control (RIHD) ( 55). IN L R TV/CD Step 1: Make sure that each Onkyo component is connected with an analog audio cable (connection in the hookup examples) ( 19).



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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 ( 27). With (Remote Interactive), you can use the following special functions: System On/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 ( 79).

FRONT L REMOTE CONTROL R BD/DVD e.g., CD player R L ANALOG AUDIO OUT e.g., DVD player R L ANALOG AUDIO OUT En 20 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 and Taiwan models) (European, Australian 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. Assembling the AM loop antenna. Thumbtacks, etc. Indoor FM antenna (supplied) Note AM loop antenna (supplied) · 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 (European, Australian and Asian models) 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 21 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. The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the MONITOR OUT V, MONITOR OUT S or the COMPONENT VIDEO MONITOR OUT, use the AV receiver's display when changing settings. 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. 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. 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. The composite video, S-Video and component video outputs pass through their respective input signals as they are. AV receiver Video Signal Flow Chart Blu-ray Disc/DVD player, etc. Composite S-Video PC IN (Analog RGB) Component HDMI IN MONITOR OUT Composite S-Video Component HDMI TV, projector, etc. Signal Selection If signals are present at more than one input, the inputs will be selected automatically in the following order of priority: HDMI, component video, PC IN (Analog RGB), S-Video and composite video. However, for component video only, regardless of whether a component video signal is actually present, if a component video input is assigned to the input selector, that component video input will be selected. And if no component video input is assigned to the input selector, this will be interpreted as no component video signal being present. In the Signal Selection Example shown on the right, video signals are present at both the S-video and composite video inputs, however, the S-video signal is automatically selected as the source and video is output by the S-Video and HDMI outputs. Signal Selection Example Blu-ray Disc/DVD player, etc.

Composite S-Video PC IN (Analog RGB) Component HDMI IN AV receiver MONITOR OUT Composite S-Video Component HDMI TV, projector, etc. En 22 Audio Connection Formats Audio component can be connected by using any of the following audio connection formats: analog, optical, coaxial, analog multichannel, or HDMI. When choosing a connection format, bear in mind that the AV receiver 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 ( 55). This setting is available, when "Audio Return Channel" setting is set to "Auto" ( 56), you must select the TV/CD input selector and your TV must support ARC function.



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Only the front L/R channels are output.

\*3 En 23 Turning On & Basic Operations Turning On/Off the AV Receiver ON/STANDBY STANDBY ON RECEIVER Turning 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. En 24 Basic Operations The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the MONITOR OUT V, MONITOR OUT S or the COMPONENT VIDEO MONITOR OUT, use the AV receiver's display when changing settings.

This manual describes the procedure using the remote controller unless otherwise specified. Tip 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. 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" ( 54). Alternatively, you can use the AV receiver's DISPLAY. The following information can typically be displayed. Input source Listening mode\*1 Signal format\*2 Sampling frequency Input signal resolution Output resolution \*1 Playing the Connected Component Operating on the AV receiver 1 2 Use the input selector buttons to select the input source. Start playback on the source component.

See also: · "Controlling Other Components" ( 78) · "Controlling iPod" ( 73) · "Listening to the Radio" ( 32) To adjust the volume, use the MASTER VOLUME control. Select a listening mode and enjoy! See also: · "Using the Listening Modes" ( 36) · "Audyssey" ( 49) \*2 3 4 The input source is displayed with the default name even when you have entered a custom name in "Name Edit" ( 51). 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. Operating with the remote controller 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 and Taiwan models) Alternatively, you can use the AV receiver's DIMMER. 1 2 Press RECEIVER followed by INPUT SELECTOR. Start playback on the source component. See also: · "Controlling Other Components" ( 78) · "Controlling iPod" ( 73) · "Listening to the Radio" ( 32) To adjust the volume, use VOL / . Select a listening mode and enjoy! See also: · "Using the Listening Modes" ( 36) · "Audyssey" ( 49) 3 4 En 25 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. Using the Home Menu The Home menu provides you quick access to frequently used menus without having to go through the long standard menu. This menu enables you to change settings and view the current information. 1 Press RECEIVER followed by HOME. The following information will be superimposed on the TV screen. BD/DVD Audio Video Info Input Listening Mode Bass Treble Subwoofer Level Center Level Dynamic EQ Dynamic Volume 0dB Using the Sleep Timer With the sleep timer, you can set the AV receiver to turn off automatically after a specified period. Press RECEIVER followed by SLEEP repeatedly to select the required sleep time. The sleep time can be set from 90 to 10 minutes in 10 minute steps. The SLEEP indicator lights on the display when the sleep timer has been set. The specified sleep time appears on the display for about 5 seconds, then the previous display reappears.

Tip · If you need to cancel the sleep timer, press SLEEP repeatedly until the SLEEP indicator goes off. · To check the time remaining until the AV receiver sleeps, press SLEEP. Note that if you press SLEEP while the sleep time is being displayed, you'll shorten the sleep time by 10 minutes. 2 Use / / / to make the desired selection. Audio\*1 You can change the following settings: "Bass", "Treble", "Subwoofer Level", "Center Level", "Dynamic EQ", "Dynamic Volume", "Late Night", "Music Optimizer", "Re-EQ", "ReEQ(THX)", and "Audio Selector".

See also: · "Audyssey" ( 49) · "Using the Audio Settings" ( 58) Video\*2 You can change the following settings: "Wide Mode", "Picture Mode", "Brightness", "Contrast", "Hue" and "Saturation". The remote controller's VIDEO acts as a shortcut for this menu. See also: · "Picture Adjust" ( 52) Info\*3\*4 You can view the information of the following items: "Audio", "Video", and "Tuner". Input\*4\*5 You can select the input source while viewing the information as follows: the name of input selectors, input assignments, and ARC function setting. Press ENTER to display the current input source, followed by / to select the desired input source.

Pressing ENTER again switches to the selected input source. Listening Mode You can select the listening modes that are grouped in the following categories: "MOVIE/ TV", "MUSIC", "GAME", and "THX". Use / to select the category and / to select the listening mode. Press ENTER to switch to the selected listening mode. Selecting Speaker Layout You can prioritize which speakers you want to use. Press RECEIVER followed by SP LAYOUT repeatedly.



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*Speaker Layout:FH: The sound from front high speakers is output by priority. Speaker Layout:FW: The sound from front wide speakers is output by priority. Speaker Layout:SB: The sound from surround back speakers is output by priority. Note · If the "Speakers Type(Front)" setting is set to "Bi-Amp" ( 45), or Powered Zone 2 is being used ( 70), this setting cannot be selected.*

*· When the listening mode that doesn't support front high, front wide or surround back speakers is used, the setting cannot be selected. En 26 Note \*1 \*2 Using Headphones Connect a pair of stereo headphones with a standard plug (1/4 inch or 6.3 mm) to the PHONES jack. Note · Always turn down the volume before connecting your headphones. · While the headphones plug is inserted in the PHONES jack, the Headphone indicator, speaker/channel indicator FL and FR lights. (The Powered Zone 2 speakers are not turned off.) · When you connect a pair of headphones, the listening mode is set to Stereo, unless it's already set to Stereo, Mono, Direct, or Pure Audio. · Only the Stereo, Direct, Pure Audio, and Mono listening modes can be used with headphones. \*3 \*4 \*5 If Pure Audio or Direct listening mode is selected, "Dynamic EQ" and "Dynamic Volume" cannot be selected. Only when you have selected "Custom" in the "Picture Mode" ( 52), pressing ENTER allows you to adjust the following items via the Home menu; "Brightness", "Contrast", "Hue", and "Saturation".*

*Press RETURN to return to the original Home menu. Depending on the input source and listening mode, not all channels shown here output the sound. When you have entered a custom name in "Name Edit" ( 51), the input source is displayed with that name. But even if not, the component name may be displayed if the AV receiver receives it via HDMI connection ( 18). For the PORT input selector, the name of Universal Port Option Dock will be displayed.*

*Changing the Input Display When you connect an -capable Onkyo component, you must configure the input display so that can work properly. This setting can be done only from the front panel. 1 Press TV/CD, GAME or VCR/DVR so that "TV/ CD", "GAME" or "VCR/DVR" appears on the display. 2 Press and hold down TV/CD, GAME or VCR/DVR (about 3 seconds) to change the input display. Repeat this step to select "MD", "CDR", "DOCK" or "TAPE".*

*For the TV/CD input selector, the input display changes in this order: TV/CD MD CDR TAPE DOCK For the GAME input selector, the setting changes in this order: GAME DOCK For the VCR/DVR input selector, the setting changes in this order: VCR/DVR DOCK Note · DOCK can be selected for the TV/CD, GAME or VCR/DVR input selector, but not at the same time. · Enter the appropriate remote control code before using the remote controller for the first time ( 78).*

*En 27 Using Easy Macros Using the Easy macro command in the Easy macro mode, you can sequentially operate Onkyo components with simple commands by simply pressing one button. The default actions are described below. Press ACTIVITIES to start the Easy macro command. Once the AV receiver has entered the normal macro mode, all of ACTIVITIES will automatically switch to the normal macro mode. In this case, pressing ALL OFF will set only the AV receiver to Standby mode. Press MY MOVIE, MY TV, or MY MUSIC. MY MOVIE (default): 1. The TV connected to the AV receiver is turned on.*

*2. The Onkyo DVD player connected to the AV receiver is turned on. 3. The AV receiver is turned on. 4. The input selector of the AV receiver is set to "BD/DVD". 5. The player starts playback.\*1 MY TV (default): 1. The TV connected to the AV receiver is turned on.*

*2. The cable set-top box connected to the AV receiver is turned on. 3. The AV receiver is turned on. 4.*

*The input selector of the AV receiver is set to "CBL/SAT". You can enjoy cable TV. MY MUSIC (default): 1. The Onkyo CD player connected to the AV receiver is turned on. 2.*

*The AV receiver is turned on. 3. The input selector of the AV receiver is set to "TV/CD". 4. The player starts playback. Note · Once you start the Easy macro command, you cannot use other ACTIVITIES during the execution. If you want to operate other components halfway, press ALL OFF to stop and press desired ACTIVITIES. \*1 Changing Source Component When you want to operate the component that is not assigned as the source component, you can assign it as the source component. While holding down REMOTE MODE, press and hold down MY MOVIE, MY TV, or MY MUSIC (about 3 seconds). ACTIVITIES that you pressed flashes twice, indicating that the setting has been established.*

*Examples: When you press MY MUSIC and want to start the Onkyo Cassette recorder, while holding down TV/ CD, press and hold down MY MUSIC (about 3 seconds) flashes twice. Restoring Default 1 2 While holding down HOME, press and hold down ALL OFF until ALL OFF lights (about 3 seconds). Release HOME and ALL OFF and press ALL OFF again. ALL OFF flashes twice. Depending on the start-up time of Blu-ray Disc/DVD player, the AV receiver may not activate this playback command. In this case, press on the remote controller. Turning Off the Components Press ALL OFF. 1. The connected component stops and turns off. 2.*

*The AV receiver turns off. 3. The TV connected to the AV receiver turns off (Standby). \*1 \*2 \*1 \*2 When MY MUSIC is selected, with the default settings, this will not be performed. With some televisions, the power may not be turned off (or enter standby).*

*En 28 Audyssey MultEQ® Room Correction and Speaker Setup With the supplied calibrated microphone, Audyssey MultEQ automatically determines the number of speakers connected, their size for purposes of bass management, optimum crossover frequencies to the subwoofer (if present), and distances from the primary listening position. Audyssey MultEQ then removes the distortion caused by room acoustics by capturing room acoustical problems over the listening area in both the frequency and time domain. The result is clear, well-balanced sound for everyone. Enabling Audyssey MultEQ allows you to also use Audyssey Dynamic EQ®, which maintains the proper octave-to-octave balance at any volume level ( 49). Before using this function, connect and position all of your speakers.*

*If "Dynamic EQ" is set to "On" ( 49), the "Equalizer" setting will be set to "Audyssey" ( 47). On the other hand, if it is set to "Off", the "Dynamic Volume" setting will be set to "Off" ( 50). It takes about 30 minutes to complete Audyssey MultEQ Room Correction and Speaker Setup for 6 positions. Total measurement time varies depending on the number of speakers. TV : Listening area Note to : Listening position · Make the room as quiet as possible.*



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