Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO TX-SR578. You'll find the answers to all your questions on the ONKYO TX-SR578 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-SR578

Instruction Manual

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

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En

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. PORTABLE CART WARNING Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when 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.

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 (17) AM loop antenna (17) Speaker cable labels (11) Speaker setup microphone (23) 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 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 Batteries (AA/R6) the remote controller for 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. 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.

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. Remote control sensor AV receiver ONKYO EUROPE ELECTRONICS GmbH Approx. 16 ft. (5 m) En 4 Contents Introduction Important Safety Instructions .....

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.. 69 To reset the AV receiver to its factory defaults, turn it on and, while holding down VCR/DVR, press ON/STANDBY (60). En 5 Features Amplifier · 90 Watts/Channel @ 8 ohms (FTC) · 130 Watts/Channel @ 6 ohms (IEC) · 160 Watts/Channel @ 6 ohms (JEITA) · WRATWide Range Amplifier Technology (5 Hz to 100 kHz bandwidth) · Optimum Gain Volume Circuitry · H.C.P.S. (High Current Power Supply) Massive High Power Transformer · Jitter Cleaning Circuit Technology · On-Screen Display via HDMI · Preprogrammed -Compatible Remote *1 Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.

S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTSHD Master Audio are trademarks of DTS, Inc. ©1996-2008 DTS, Inc. All Rights Reserved. *2 Processing · HDMI Video Upscaling (to 1080p Compatible) with Faroudja DCDi Cinema Enhancement · HDMI (Ver.1.4 with Audio Return Channel, 3D), DeepColor, x.v.Color*, Lip Sync, DTS*1-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD*2, Dolby Digital Plus, DSD and Multi-CH PCM · Dolby Pro Logic IIz*2 New Surround Format (fronthigh) · Non-Scaling Configuration · A-Form Listening Mode Memory · Direct Mode · Pure Audio Mode (European, Australian and Asian models) · Music Optimizer*4 for Compressed Digital Music files · 192 kHz/24-bit D/A Converters · Powerful and Highly Accurate 32-bit Processing DSP Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. *3 *4 *5 Manufactured under license from Audyssey LaboratoriesTM. U.S. and foreign patents pending.
Audyssey 2EQ®, Audyssey Dynamic VolumeTM and Audyssey Dynamic EQTM are trademarks of Audyssey Laboratories. Music OptimizerTM is a trademark of Onkyo Corporation. "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." *6 Connections · 5 HDMI*5 Inputs (1 on front panel) and 1 Output · Onkyo for System Control · 4 Digital Inputs (2 Optical/2 Coaxial) · Component Video Switching (2 Inputs/1 Output) · Front "Line in" Input for Portable audio player · Universal Port for the Dock for iPod*/HD RadioTM*6 tuner module (North American models)/DAB+ tuner module (European, Australian and Asian models) · Banana Plug-Compatible Speaker Posts*7 · Powered Zone 2 · Bi-Amping Capability for FL/FR with SBL/SBR The HD Radio Ready logo is a proprietary trademark of iBiquity Digital Corp.

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To receive HD Radio broadcasts, you must install an Onkyo UP-HT1 HD Radio tuner module (sold separately).
*7 *8 In Europe, using banana plugs to connect speakers to an audio amplifier is prohibited. Miscellaneous ·40 SIRIUS*8/FM/AM Presets (North American models) ·40 FM/AM Presets (excluding North American models) ·Audyssey 2EQ®*3 to Correct Room Acoustic Problems ·Audyssey Dynamic EQTM*3 for Loudness Correction ·Audyssey Dynamic VolumeTM*3 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 200 ms) * * SIRIUS, XM and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All other marks and logos are the property of their respective owners. All rights reserved. SIRIUS subscription sold separately. Taxes and a one-time activation fee may apply. SIRIUS tuner required (sold separately) to receive the SIRIUS service. All programming and fees subject to change. It is prohibited to copy, decompile, disassemble, reverse engineer, hack, manipulate or otherwise make available any technology or software incorporated in receivers compatible with the SIRIUS Satellite Radio System.

Service not available in Alaska or Hawaii. Apple and iPod are trademarks of Apple Inc., registered in the U.S. and other countries. "x.v.Color" is a trademark of Sony Corporation. En 6 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 (19) STANDBY indicator (19) HDMI THRU indicator (46) ZONE 2 indicator (50) Remote control sensor (4) ZONE 2, OFF, ZONE 2 LEVEL/TONE LEVEL and TONE buttons (48, 50 to 51) Display (8) LISTENING MODE buttons (29) DIMMER button (North American and Taiwan models) (20) MEMORY button (26) TUNING MODE button (25) DISPLAY button (20) SETUP button (34) TUNING, PRESET (25 to 26), arrow and ENTER buttons RETURN button MASTER VOLUME control (20) MUSIC OPTIMIZER button (North American models) (47) PHONES jack (22) Input selector buttons (20) AUX INPUT LINE IN jack (16) AUX INPUT VIDEO jack (16) AUX INPUT AUDIO jacks (16) SETUP MIC jack (23) PURE AUDIO button and indicator (European, Australian and Asian models) (29) RT/PTY/TP button (European, Australian and Asian models) (26) En 7 Display For detailed information, see the pages in parentheses. Audio input indicators Listening mode and format indicators (29, 47) Audyssey indicators (22, 40) Tuning indicators (25) RDS indicator (excluding North American models) (26) SLEEP indicator (21) MUTING indicator (21) Message area Rear Panel DIGITAL IN COAXIAL and OPTICAL jacks COMPONENT VIDEO IN and OUT jacks HDMI IN and OUT jacks FM ANTENNA jack and AM ANTENNA terminal MONITOR OUT V jack UNIVERSAL PORT jack SPEAKERS terminals (CENTER, FRONT, SURR, SURR BACK OR FRONT HIGH) Power cord REMOTE CONTROL jack SIRIUS antenna jack (North American models) Composite video and analog audio jacks (BD/DVD IN, VCR/DVR IN and OUT, CBL/SAT IN, GAME IN, TV/CD IN) ZONE 2 LINE OUT jacks SUBWOOFER PRE OUT jacks FRONT HIGH OR ZONE 2 SPEAKERS terminals See "Connecting the AV Receiver" for connection information (11 to 18). En 8 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 (57). *1 For detailed information, see the pages in parentheses. ON/STANDBY button (19) REMOTE MODE/INPUT SELECTOR buttons (20) SP LAYOUT button (21) *2 Arrow / / / and ENTER buttons SETUP button (34) LISTENING MODE buttons (29) DIMMER button (20) DISPLAY button (21) MUTING button (21) *3 VOL / button (20) VIDEO button (21) RETURN button AUDIO button (21) SLEEP button (21) 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 (25) D.
TUN button (25) DISPLAY button (26) CH +/ button (26) Number buttons (25) *1 *2 *3 To control component, you must first enter remote control code. See "Entering Remote Control Codes" for more details (57). This button acts as a shortcut for the Video menu (21). This button acts as a shortcut for the Audio menu (21). En 9 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, 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. Front speakers These output the overall sound. Their role in a home theater is to provide a solid anchor for the sound image. They should be positioned facing the listener at about ear level, and equidistant from the TV.

Angle them inward so as to create a triangle, with the listener at the apex. Center speaker This speaker enhances the front 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 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. Surround back speakers These speakers are necessary to enjoy Dolby Digital EX, DTS-ES Matrix, DTS-ES Discrete, 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 These speakers are necessary to enjoy Dolby Pro Logic IIz Height. 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. Subwoofer The subwoofer handles the bass sounds of the LFE (Low-Frequency Effects) channel.
The volume and quality of the bass output from your subwoofer will depend on its position, the shape of your listening room, and your listening position. In general, a good bass sound can be obtained by installing the subwoofer in a front corner, or at one-third the width of the wall, as shown. 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 10 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 seven speakers and a powered subwoofer. Number of channels Front speakers Center speaker Surround speakers Surround back speaker*1*2 Surround back speakers*2 Front high speakers*2 *1 *2 Speaker Connection Precautions Read the following before connecting your speakers: · (North American and Taiwan models) You can connect speakers with an impedance of between 6 and 16 ohms. 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 amp protection circuit may be activated. · (European, Australian and Asian models) You can connect speakers with an impedance of between 4 and 16 ohms. If the impedance of any of the connected speakers is 4 ohms or more, but less than 6 ohms, be sure to set the minimum speaker impedance to "4ohms" (36). 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. 234567789 If you're using only one surround back speaker, connect it to the SURR BACK OR FRONT HIGH L terminals. Front high and surround back 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 (23) or manually (36). 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 right, Front high right Center Surround left Surround right Surround back left, Zone 2 left Surround back right, Zone 2 right Color White Red Green Blue Gray Brown Tan 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 11 · 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. 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.

Push-type speaker terminals Strip 3/8" to 1/2" (10 to 12 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. 3/8" to 1/2"(10 to 12 mm) 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 OR FRONT HIGH L terminals. Surround back right speaker Surround back left speaker Surround Surround right speaker left speaker En 12 Front high right speaker Front high left speaker Front right speaker Front left speaker Center speaker Note · The front high speakers can also be connected to the SURR BACK OR FRONT HIGH SPEAKERS terminals. When doing so, set "Surr Back/Front High" in Speaker Setup to "Front High" (37). 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. NE N UT LINE INPUT Powered subwoofer Bi-amping the Front Speakers The FRONT L/R and SURR BACK OR FRONT HIGH L/R terminal posts can be used with front speakers and surround back speakers respectively, or biamped to provide separate tweeter and woofer feeds for a pair of front speakers that support bi-amping, providing improved bass and treble performance. · When bi-amping is used, the AV receiver 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 OR FRONT HIGH 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" setting to "Bi-Amp" to enable bi-amping (37). 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 Left speaker Tweeter (high) Woofer (low) En 13 About AV Connections Connected image with AV components HDMI cable : Video & Audio Other cables : Video : Audio AV receiver AV receiver 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! AV Cables and Jacks Signal Video and Audio Video Cable HDMI Component video Jack HDMI Wrong! 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). 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. Y PB/CB PR/CR Green Blue Red V Composite video Audio Optical digital audio Coaxial digital audio Analog audio (RCA) 1/8" (3.

5 mm) Stereo mini plug * L Yellow OPTICAL Orange White Red R This cable carries analog audio. 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 · To prevent shutter damage, hold the optical plug straight when inserting and removing.

En 14 Connecting Components with HDMI VCR or DVD recorder/Digital Video Recorder Game console TV, projector, etc. Blu-ray Disc/DVD player Satellite, cable, set-top box, etc. Connect your components to the appropriate jacks. The default input assignments are shown below. : Assignment can be changed (35). Jack Input HDMI IN 1 HDMI IN 2 HDMI IN 3 HDMI IN 4 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 TV, projector, etc. Assignable Refer to "About HDMI" (66) and "Using an RIHD-compatible TV, Player, or Recorder" (67). Tip To listen to audio received by the HDMI IN jacks through your TV's speakers: · · · · Set the "TV Control" setting to "On" (46) for an -compatible TV. Set the "Audio TV Out" setting to "On" (45) when the TV is not compatible with or the "TV Control" setting to "Off".

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 External Components" (16). 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" (45) 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" (46) 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. 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" is set to "On"(46).

En 15 Connecting External 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 or the COMPONENT VIDEO 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 (36). No. Jack AUX INPUT LINE IN VIDEO AUDIO L/R COMPONENT VIDEO DIGITAL IN IN 1 (BD/DVD) IN 2 (CBL/SAT) OUT OPTICAL COAXIAL MONITOR OUT BD/DVD IN VCR/DVR IN CBL/SAT IN GAME IN TV/CD IN UNIVERSAL PORT Analog audio Analog audio/ Video IN 1 (GAME) IN 2 (TV/CD) IN 1 (BD/DVD) IN 2 (CBL/SAT) Composite video Analog audio and composite 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. Game console TV, CD player 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, Turntable*1, Cassette tape deck, MD, CD-R Universal port optional dock (UP-A1 etc.) Components Portable audio player Camcorder, etc Assignable Note · When you connect to both AUX INPUT AUDIO jacks and AUX INPUT LINE IN jack at the same time, AUX INPUT LINE IN jack will be given a higher priority. · The AV receiver can output audio and video signals from the AUX INPUT jacks to the VCR/DVR OUT jacks. *1 Connect a turntable (MM) that has a phono preamp built-in. If your turntable (MM) doesn't have it, you'll need a commercially available phono preamp. If your turntable has a moving coil (MC) type cartridge, you'll need a commercially available MC head amp or MC transformer as well as a phono preamp. See your turntable's manual for details. · 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 .) · With connection , if your Blu-ray Disc/DVD player has both the main stereo and multichannel outputs, be sure to connect the main stereo. 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 (28).

En 16 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. 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) (16). 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 (22). 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 (57). IN L REMOTE CONTROL R BD/DVD e.g., CD player R L ANALOG AUDIO OUT e.g., DVD player R L ANALOG AUDIO OUT 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) 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.

En 17 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 or the COMPONENT VIDEO 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, component video, or HDMI, the latter offering the best picture quality. Video input signals flow through the AV receiver as shown, Video Signal Flow Chart with composite video and component video sources all being Blu-ray Disc/DVD player, etc. upconverted for the HDMI output. The composite video and component video outputs pass Composite Component HDMI through their respective input signals as they are. IN When you connect audio component to an HDMI or COMPONENT input, you must assign that input to an input selecAV receiver tor (35).

MONITOR OUT Composite 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, 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 HDMI and composite video inputs, however, the HDMI signal is automatically selected as the source and video is output by the HDMI outputs. Signal Selection Example Blu-ray Disc/DVD player, etc. Composite Component HDMI IN AV receiver MONITOR OUT Composite Component HDMI TV, projector, etc. Audio Connection Formats Audio component can be connected by using any of the following audio connection formats: analog, 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 Optical Coaxial HDMI IN AV receiver *1 Analog *1 OUT *1 HDMI *1 *2 TV, projector, etc. Depends on the "Audio TV Out" setting (45). This setting is available, when "Audio Return Channel" setting is set to "Auto" (46), you must select the TV/CD input selector and your TV must support ARC function.

En 18 Turning On/Off the AV Receiver ON/STANDBY STANDBY indicator ON/STANDBY RECEIVER Front panel Remote controller Turning On Press ON/STANDBY on the front panel. or Press RECEIVER followed by ON/STANDBY on the remote controller. The AV receiver comes on, the display lights, and the STANDBY indicator goes off. Turning Off Press ON/STANDBY on the front panel or 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 19 Basic Operations The on-screen menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the MONITOR OUT V or the COMPONENT VIDEO OUT, use the AV receiver's display when changing settings. This manual describes the procedure using the remote controller unless otherwise specified. Press RECEIVER followed by DISPLAY repeatedly to cycle through the available information. Tip · Alternatively, you can use the AV receiver's DISPLAY. The following information can typically be displayed. Input source & volume*1 Signal format*2 or sampling frequency Selecting the Language Used for the Onscreen Setup Menus You can determine the language used for the onscreen setup menus. See "OSD Setup" (44). Input & output resolution Playing the Connected Component Operating on the AV receiver 1 2 Input source & listening mode*3 *1 *2 Use the input selector buttons to select the input source.

*Start playback on the source component. See also: · "Controlling Other Components" (56) · "Controlling iPod" (52) · "Listening to the Radio" (25) To adjust the volume, use the MASTER VOLUME control. Select a listening mode and enjoy! See also: · "Using the Listening Modes" (29) · "Audyssey" (40) 3 4 *3 When AM or FM radio is used, the band, preset number, and frequency are displayed. 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 is displayed. Information is displayed for about three seconds, then the previously displayed information reappears. The input source is displayed with the default name even when you have entered a custom name in "Name Edit" (41). Using the Music Optimizer The Music Optimizer function enhances the sound quality of compressed music files. Operating with the remote controller 1 2 Press RECEIVER followed by INPUT SELECTOR.*

Start playback on the source component. See also: · "Controlling Other Components" (56) · "Controlling iPod" (52) · "Listening to the Radio" (25) To adjust the volume, use VOL / . Select a listening mode and enjoy! See also: · "Using the Listening Modes" (29) · "Audyssey" (40) 1 2 Tip Press AUDIO and use / to select "Music Optimizer". Use / to select "On". The M.

Opt indicator lights on the display. 3 4 · Alternatively, you can use the AV receiver's MUSIC OPTIMIZER (North American and Taiwan models). · See "Music Optimizer" for more details (47). Setting the Display Brightness You can adjust the brightness of the AV receiver's display. Press RECEIVER followed by DIMMER repeatedly to select: dim, dimmer, or normal brightness.

Tip · Alternatively, you can use the AV receiver's DIMMER (North American and Taiwan models). Displaying Source Information En You can display various information about the current input source as follows. (Components connected to the UNIVERSAL PORT jack are excluded.) 20 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 Audio and Video Menus By pressing AUDIO or VIDEO, you can have a quick access to frequently used menus without having to go through the long standard menu. The menus enable you to change settings and view the current information.

1 Press RECEIVER followed by AUDIO or VIDEO. Either of the following screens will be superimposed on the TV screen. BD/DVD Audio Video Info Input Sel 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 five 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.

BD/DVD Audio Video Info Input Sel Listening Mode Wide Mode Picture Mode Auto 2 Selecting Speaker Layout You can prioritize which speakers you want to use. Press RECEIVER followed by SP LAYOUT repeatedly. Speaker Layout:FH: The sound from front high speakers is output by priority. Speaker Layout:SB: The sound from surround back speakers is output by priority. Note · If the "Speakers Type" setting is set to "Bi-Amp" (37), or Powered Zone 2 is being used (50), this setting cannot be selected.

*· When the listening mode that doesn't support front high or surround back speakers is used, the setting cannot be selected. 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", "Cinema filter", and "Audio Selector". See also: · "Audyssey" (40) · "Using the Audio Settings" (47) Video*2 You can change the following settings: "Wide Mode" and "Picture Mode". See also: · "Picture Adjust" (42) 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 radio information, 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 and GAME. Use / to select the category and / to select the listening mode. Press ENTER to switch to the selected listening mode. En 21 Note *1 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 speakers are turned off.*

*(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 (European, Australian and Asian models). · Only the Stereo, Direct, Pure Audio (European, Australian and Asian models), and Mono listening modes can be used with headphones. *2 *3 *4 *5 If Pure Audio (European, Australian and Asian) or Direct listening mode is selected, "Dynamic EQ" and "Dynamic Volume" cannot be selected. Only when you have selected "Custom" in the "Picture Mode" (43), pressing ENTER allows you to adjust the following items; "Brightness", "Contrast", "Hue", and "Saturation". Press RETURN to return to the original Video 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" (41), 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 (15). 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. Audyssey 2EQ® Room Correction and Speaker Setup With the supplied calibrated microphone, Audyssey 2EQ 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 2EQ 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 2EQ allows you to also use Audyssey Dynamic EQTM, which maintains the proper octave-to-octave balance at any volume level (40). Before using this function, connect and position all of your speakers. If "Dynamic EQ" is set to "On" (40), the "Equalizer" setting will be set to "Audyssey" (38). On the other hand, if it is set to "Off", the "Dynamic Volume" setting will be set to "Off" (40). It takes about 15 minutes to complete Audyssey 2EQ Room Correction and Speaker Setup for three positions.

Total measurement time varies depending on the number of speakers. 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 (56). En 22 Using Audyssey 2EQ® To create a listening environment in your home theater that all listeners will enjoy, Audyssey 2EQ takes measurements at up to three positions within the listening area. Position the microphone at ear height of a seated listener with the microphone tip pointed directly at the ceiling using a tripod. Do not hold the microphone in your hand during measurements as this will produce inaccurate results. First measurement position Also referred to as the Main Listening Position this refers to the most central position where one would normally sit within the listening environment.

2EQ uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer. Second measurement position The right side of the listening area. Third measurement position The left side of the listening area. The distances from position at least 1 meter. to and to must be 1 2 Turn on the AV receiver and the connected TV. On the TV, select the input to which the AV receiver is connected. Set the speaker setup microphone at the Main Listening Position 1, and connect it to the SETUP MIC jack. SETUP MIC jack Speaker setup microphone The speaker setting menu appears. Note · 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 or the COMPONENT VIDEO OUT, use the AV receiver's display when changing settings.

3 When you've finished making the settings, press ENTER. 2EQ: Auto Setup TV Speakers Type Speaker Terminal Assign Front High/Zone2 SurrBack/Front High Normal Front High Surr Back : Listening area Note to : Listening position 4 If your front speakers are bi-amped, you must select "Bi-Amp" in the "Speakers Type" setting (37). For hookup information, see "Bi-amping the Front Speakers" (13). Press ENTER. Audyssey 2EQ Room Correction and Speaker Setup starts.

Test tones are played through each speaker as Audyssey 2EQ Room Correction and Speaker Setup runs. This process takes a few minutes. Please refrain from talking during measurements and do not stand between speakers and the microphone. Do not disconnect the speaker setup microphone during Audyssey 2EQ Room Correction and Speaker Setup, unless you want to cancel the setup. Place the setup microphone at the next position, and then press ENTER. Audyssey 2EQ performs more measurements. This takes a few minutes. When prompted, repeat step 5. · Make the room as quiet as possible. Background noise and Radio Frequency Interference (RFI) can disrupt the room measurements. Close windows, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices. Turn off the cell phone (even if it is not in use) or place it away from all audio electronics. · The microphone picks up test tones which played through each speaker as Audyssey 2EQ Room Correction and Speaker Setup run. · Audyssey 2EQ Room Correction and Speaker Setup cannot be performed while a pair of headphones is connected. 5 6 En 23 7 Use / to select an option, and then press ENTER.

2EQ: Auto Setup - - Review Speaker Configuration - Subwoofer Front Center Surround Front High Surr Back Surr Back Ch Yes Full Band 40Hz 100Hz 100Hz 120Hz 2ch TV Save Cancel The options are: Save: Save the calculated settings and exit Audyssey 2EQ® Room Correction and Speaker Setup. Cancel: Cancel Audyssey 2EQ Room Correction and Speaker Setup. Note · You can view the calculated settings for the speaker configuration, speaker distances, and speaker levels by using /. The options are: Retry: Try again. Cancel: Cancel Audyssey 2EQ Room Correction and Speaker Setup. · Ambient noise is too high. The background noise is too loud. Remove the source of the noise and try again. · Speaker Matching Error! The number of speakers detected was different from that of the first measurement. Check the speaker connection.

· Writing Error! This message appears if saving fails. Try saving again. If this message appears after 2 or 3 attempts, contact your Onkyo dealer. · Speaker Detect Error This message appears if a speaker is not detected. "No" means that no speaker was detected.

Tip · See "Speaker Configuration" for appropriate settings (11).

8 Disconnect the speaker setup microphone. Changing the Speaker Settings Manually You can manually make changes to the settings found during Audyssey 2EQ Room Correction and Speaker Setup. See also: · "Speaker Configuration" (37) · "Speaker Distance" (38) · "Level Calibration" (38) · "Equalizer Settings" (38) Note · When Audyssey 2EQ Room Correction and Speaker Setup is complete, the "Equalizer" will be set to "Audyssey" (38). The Audyssey indicator will light (8).

· You can cancel Audyssey 2EQ Room Correction and Speaker Setup at any point in this procedure simply by disconnecting the setup microphone. · Do not connect or disconnect any speakers during Audyssey 2EQ Room Correction and Speaker Setup. · If the AV receiver is muted, it will be unmuted automatically when Audyssey 2EQ Room Correction and Speaker Setup starts. · Changes to the room after Audyssey 2EQ Room Correction and Speaker Setup requires you run Audyssey 2EQ Room Correction and Speaker Setup again, as room EQ characteristics may have changed. Using a Powered Subwoofer If you're using a powered subwoofer and it outputs very low-frequency sound at a low volume level, it may not be detected by Audyssey 2EQ Room Correction and Speaker Setup. If the "Subwoofer" appears on the "Review Speaker Configuration" screen as "No", increase the subwoofer's volume to the half-way point, set it to its highest crossover frequency, and then try running Audyssey 2EQ Room Correction and Speaker Setup again. Note that if the volume is set too high and the sound distorts, detection issues may occur, so use an appropriate volume level. If the subwoofer has a low-pass filter switch, set it to Off or Direct. Refer to your subwoofer's instruction manual for details. Error Messages While Audyssey 2EQ Room Correction and Speaker Setup is in progress, one of the error messages below may appear.

2EQ: Auto Setup Ambient noise is too high. Retry Cancel Error message En 24 Listening to the Radio This section describes the procedure using the buttons on the front panel unless otherwise specified. Manual tuning mode 1 2 Press TUNING MODE so that the AUTO indicator goes off on the display. Press and hold TUNING / . The frequency stops changing when you release the button. Press the buttons repeatedly to change the frequency one step at a time. Using the Tuner With the built-in tuner you can enjoy AM and FM radio stations. You can store your favorite stations as presets for quick selection. This model changes FM/AM frequency in 200/10kHz (or 50/9kHz) steps. In manual tuning mode, FM stations will be in mono.

Listening to the Radio Press TUNER to select either "AM" or "FM". In this example, FM has been selected. Each time you press TUNER, the radio band changes between AM and FM. Band Frequency Tuning into weak FM stereo stations If the signal from a stereo FM station is weak, it may be impossible to get good reception. In this case, switch to manual tuning mode and listen to the station in mono.

Tuning into stations by frequency You can tune into AM and FM stations directly by entering the appropriate frequency. 1 (Actual display depends on the country.) On the remote controller, press TUNER repeatedly to select "AM" or "FM", followed by D.TUN. Tuning into Radio Stations Auto tuning mode 1 2 Press TUNING MODE so that the AUTO indicator lights on the display.

Press TUNING / . Searching stops when a station is found. 2 (Actual display depends on the country.) Within 8 seconds, use the number buttons to enter the frequency of the radio station. For example, to tune to 87.50 (FM), press 8, 7, 5, 0. If you have entered the wrong number, you can retry after 8 seconds. When tuned into a station, the TUNED indicator lights. When tuned into a stereo FM station, the FM STEREO indicator lights on the display, as shown. FM STEREO AUTO TUNED En 25 Presetting FM/AM Stations You can store a combination of up to 40 of your favorite FM/AM radio stations as presets.

Using RDS (excluding North American models) RDS works only in areas where RDS broadcasts are available. When tuned into an RDS station, the RDS indicator lights. 1 2 Tune into the FM/AM station that you want to store as a preset. See the previous section. Press MEMORY. The preset number flashes. What is RDS? RDS stands for Radio Data System and is a method of transmitting data in FM radio signals. It was developed by the European Broadcasting Union (EBU) and is available in most European countries. Many FM stations use it these days. In addition to displaying text information, RDS can also help you find radio stations by type (e.

g., news, sport, rock, etc.). The AV receiver supports four types of RDS information: PS (Program Service) When tuned to an RDS station that's broadcasting PS information, the station's name will be displayed. Pressing DISPLAY will display the frequency for 3 seconds.

RT (Radio Text) When tuned to an RDS station that's broadcasting text information, the text will be shown on the display as described in the next section. PTY (Program Type) This allows you to search for RDS radio stations by type (27). TP (Traffic Program) This allows you to search for RDS radio stations that broadcast traffic information (27). Note · In some cases, the text characters displayed on the AV receiver may not be identical to those broadcast by the radio station. Also, unexpected characters may be displayed when unsupported characters are received.

This is not a malfunction. · If the signal from an RDS station is weak, RDS data may be displayed intermittently or not at all. 3 4 While the preset number is flashing (about 8 seconds), use PRESET / to select a preset from 1 through 40. Press MEMORY again to store the station or channel. The station or channel is stored and the preset number stops flashing. Repeat this procedure for all of your favorite FM/ AM radio stations. Note · You can name your radio presets for easy identification (41). Its name is displayed instead of the band and frequency. Selecting Presets To select a preset, use PRESET / on the AV receiver, or the remote controller's CH +/. Tip · You can also use the remote controller's number buttons to select a preset directly.

Deleting Presets 1 2 Select the preset that you want to delete. See the previous section. While holding down MEMORY, press TUNING MODE. The preset is deleted and its number disappears from the display. When tuned to an RDS station that's broadcasting text information, the text can be displayed. Displaying Radio Text (RT) Press RT/PTY/TP once. The RT information scrolls across the display. Note · The message "Waiting" may appear while the AV receiver waits for the RT information.