Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO TX-NR509. You'll find the answers to all your questions on the ONKYO TX-NR509 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-NR509
User guide ONKYO TX-NR509
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Instruction manual ONKYO TX-NR509

ONKYO.

AV Receiver

TX-NR509

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.
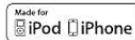
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Made for
📱iPod 📱iPhone   HD Radio   En

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Manual abstract:

En Introduction WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN AVIS RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. Important Safety Instructions 1. 2. 3. 4.

5. 6. 7. 8. Read these instructions.

Keep these instructions. Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with dry cloth.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. @@A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. @@@@Only use attachments/accessories specified by the manufacturer. @@When a cart is used, use caution when moving the cart/apparatus combination to S3125A avoid 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.

The temperature protection operates if the apparatus attain an abnormal high temperature. The apparatus cannot operate until it has cooled down. 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 userserviceable. If you cannot turn on the unit, contact your Onkyo dealer. 3. Care--Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering. 4. Power WARNING BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz). The power cord plug is used to disconnect this unit from the AC power source.

Make sure that the plug is readily operable (easily accessible) at all times. Pressing the [ON/STANDBY] button to select Standby mode does not fully disconnect from the mains. 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 (page 18) AM loop antenna (page 18) Power cord (Taiwan models) (page 18) Speaker cable labels (page 12) (Not supplied with the Home Theater System.) Speaker setup microphone (page 28) Remote controller (RC-801M) and two batteries (AA/R6) (page 4) (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. 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. 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.

Batteries (AA/R6) · If you intend not to use 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. 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 ...

.. trademark of iBiquity Digital Corp. To receive HD Radio broadcasts, you must install an Onkyo UP-HT1 HD Radio tuner module (sold separately). In Europe, using banana plugs to connect speakers to an audio amplifier is prohibited. · 40 FM/AM Presets · Audyssey 2EQ®*9 to correct room acoustic problems · Audyssey Dynamic EQ®*9 for loudness correction · Audyssey Dynamic Volume®*9 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 400 ms) · Auto Standby Function · On-Screen Display via HDMI · Preprogrammed -Compatible Remote Manufactured under license from Audyssey LaboratoriesTM, Inc. U.S. and foreign patents pending. Audyssey 2EQ®, Audyssey Dynamic EQ® and Audyssey Dynamic Volume® are registered trademarks of Audyssey Laboratories, Inc.

*10 "DLNA®, the DLNA Logo and DLNA CERTIFIEDTM are trademarks, service marks, or certification marks of the Digital Living Network Alliance." *10 Windows and the Windows logo are trademarks of the Microsoft group of companies. En 6 Front & Rear Panels Front Panel (North American and Taiwan models) (European, Australian and Asian models) The page numbers in parentheses show where you can find the main explanation for each item. MUSIC OPTIMIZER button and indicator (North ON/STANDBY button (19) American and Taiwan models) (37, 51) ZONE 2, OFF buttons (52) Remote control sensor (4) Display (8) LISTENING MODE buttons (31) DIMMER button (North American and Taiwan models) (36) MEMORY button (26) TUNING MODE button (25) DISPLAY button (36) SETUP button (39) TUNING, PRESET (25), arrow and ENTER buttons RETURN button MASTER VOLUME control (20) PHONES jack (37) TONE and Tone Level buttons (50) Input selector buttons (20) AUX INPUT AUDIO/VIDEO jacks (16) USB port (16) SETUP MIC jack (28) HDMI THRU indicator (48) PURE AUDIO button and indicator (European, Australian and Asian models) (31) RT/PTY/TP button (European, Australian and Asian models) (27) En 7 Display For detailed information, see the pages in parentheses. Speaker/channel indicators Z2 (Zone 2) indicator (52) Listening mode and format indicators (31, 51) , and cursor indicators (21) NET indicator (22, 49) Tuning indicators RDS indicator (excluding North American and Taiwan models) (26) AUTO indicator (25) TUNED indicator (25) FM STEREO indicator (25) Audio input indicators Audyssey indicator (28, 44) Dynamic EQ indicator (44) Dynamic Vol indicator (45) Headphone indicator (37) Message area MUTING indicator (37) Volume level (20) USB indicator (21, 22) SLEEP indicator (36, 47) En 8 Rear Panel (North American, European, Australian and Asian models) (Taiwan models) DIGITAL IN COAXIAL and OPTICAL jacks COMPONENT VIDEO IN and OUT jacks ETHERNET port FM ANTENNA jack and AM ANTENNA terminal HDMI IN and OUT jacks UNIVERSAL PORT jack SPEAKERS terminals (CENTER, FRONT, SURROUND) Power cord (North American, European, Australian and Asian models) REMOTE CONTROL jack Composite video and analog audio jacks (BD/DVD IN, VCR/DVR IN and OUT, CBL/SAT IN, GAME IN, TV/CD IN) MONITOR OUT V jack ZONE 2 LINE OUT jacks PRE OUT jacks (SURROUND BACK and SUBWOOFER) AC INLET (Taiwan models) z See "Connecting

*En 9 Remote Controller Controlling the AV Receiver To control the AV receiver, you need to select Receiver mode by pressing RECEIVER. You can also Onkyo Blu-ray Disc/DVD player, CD player and other components to control with the remote controller. See "Entering Remote Control Codes" for more details (page 56). For detailed information, see the pages in parentheses. RECEIVER button (19) REMOTE MODE/INPUT SELECTOR buttons (20) Arrow / / / and ENTER buttons SETUP button (39) LISTENING MODE buttons (31) DIMMER button (36) MUTING button (37) DISPLAY button (36) VOL / button (20) RETURN button HOME button (36, 50) SLEEP button (36) 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 (26) DISPLAY button CH +/ button (26) Number buttons (26) *1 *1 To control component, you must first enter remote control code. See "Entering Remote Control Codes" for more details (page 56). En 10 Connections Connecting the AV Receiver Connecting Your Speakers Connecting the Speaker Cables 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 SURROUND BACK L PRE OUT jack. Surround right Surround left L AUDIO INPUT R Surround back right Surround back left Power amplifier Front right Front left Center Connect your Power amplifier's analog audio input jacks to the AV receiver's SURROUND BACK L/R PRE OUT jacks with audio 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) 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.

*En 11 Speaker Configuration The following table indicates the channels you should use depending on the number of speakers that you have. 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 automatically (page 28) or manually (page 41). Number of channels Front speakers Center speaker Surround speakers Surround back speaker*1 Surround back speakers *1 Speaker Connection Precautions Read the following before connecting your speakers: · 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. · 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 If you're using only one surround back speaker, connect it to the SURROUND BACK L PRE OUT jack. Attaching the Speaker Cable Labels The speaker terminals (and preout jacks) are color-coded for identification purpose. Speaker Front left Front right Center Surround left Surround right Surround back left Surround back 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. · 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. Note · With the Home Theater System, speaker cable labels are not supplied. En 12 Using a Powered Subwoofer 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. Tip · If your subwoofer is unpowered and you're using an external amplifier, connect the subwoofer pre out jack to an input on the amplifier.

Powered subwoofer LINE INPUT LINE INPUT Corner position 1/3 of wall position En 13 About AV Connections Connecting 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, PR), 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 PR Green Blue Red V Composite video Audio Optical digital audio Coaxial digital audio Analog audio (RCA) L Yellow OPTICAL Orange White Red R * Available sampling rate for PCM input signal is 32/44.*

1/48/88.2/96 kHz. In case of an HDMI connection, 176.4/192 kHz is also available. 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. Satellite/cable set-top box, etc.

Blu-ray Disc/DVD player Connect your components to the appropriate jacks. The default input assignments are shown below. : Assignment can be changed (page 40). Jack Input HDMI IN1 HDMI IN2 HDMI IN3 HDMI IN4 Output HDMI OUT 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 See also: · "Connection Tips and Video Signal Path" (page 70). · "About HDMI" (page 71) · "Using an RIHD-compatible TV, Player, or Recorder" (page 72). 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 the ARC function, you must select the TV/CD input selector, your TV must be ARC capable and "HDMI Ctrl (RIHD)" must be set to "On" (page 48). Tip · To listen to audio received by the HDMI IN jacks through your TV's speakers: Set the "HDMI Ctrl (RIHD)" setting to "On" (page 48) for an -compatible TV.

Set the "Audio TV Out" setting to "On" (page 48) when the TV is not compatible with , or the "HDMI Ctrl (RIHD)" 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 Your Components" (page 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" (page 48) 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 "HDMI Ctrl (RIHD)" setting is set to "On" (page 48) 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. En 15 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 or the COMPONENT VIDEO OUT, use the AV receiver's display when changing settings.

Connect your components to the appropriate jacks. The default input assignments are shown below. See "Connection Tips and Video Signal Path" for more information (page 70). : Assignment can be changed (page 40). No. Jack/Port AUX INPUT VIDEO AUDIO L/R USB, AUX INPUT VIDEO*1 USB*2 DIGITAL IN OPTICAL COAXIAL COMPONENT VIDEO ETHERNET MONITOR OUT BD/DVD IN VCR/DVR IN CBL/SAT IN GAME IN TV/CD IN UNIVERSAL PORT Note *1 *2 *3 Components Camcorder, etc iPod/iPhone (video playback) iPod/iPhone, MP3 player, USB flash drive 1 (GAME) 2 (TV/CD) 1 (BD/DVD) 2 (CBL/SAT) IN 1 (BD/DVD) IN 2 (CBL/SAT) MONITOR OUT Game console TV, CD player Blu-ray Disc/DVD player Satellite/cable set-top box, RI dock, etc. Blu-ray Disc/DVD player, RI dock Satellite/cable set-top box, RI dock, etc. TV, projector, etc. Router TV, projector, etc. Blu-ray Disc/DVD player VCR or DVD recorder/digital video recorder, RI dock Satellite/cable set-top box, etc.

Game console, RI dock TV, CD player, cassette tape deck, MD, CD-R, Turntable*3, RI dock Universal port option dock (UP-A1 etc.) Assignable When USB input is selected, you can input video signals from the AUX INPUT VIDEO jack. Video signals input from AUX INPUT VIDEO will be output from the MONITOR OUT jack. Do not connect the AV receiver's USB port to a USB port on your computer. Music on your computer cannot be played through the AV receiver in this way.

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. En · 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 .) 16 · If your Blu-ray Disc/DVD player has both the main stereo and multichannel outputs, be sure to connect the main stereo output using connection . How to record a video source See "Recording" to make a connection for video recording (page 37). Connecting Onkyo Components 1 2 3 Make sure that each Onkyo component is connected with an analog audio cable (connection in the hookup examples) (page 16). Make the connection (see the illustration). If you're using an RI Dock, or cassette tape deck, change the Input Display (page 37). 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 (page 56). 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 Onkyo components. · While Zone 2 is on, the System On/Auto Power On and Direct Change functions do not work. e.g.

, CD player R L ANALOG AUDIO OUT e.g., DVD player R L ANALOG AUDIO OUT Connecting a Recording Component See "Recording" on the recording (page 37). Note · The AV receiver must be turned on for recording. Recording is not possible while it's in Standby mode.

· If you want to record directly from your TV or playback VCR to the recording VCR without going through the AV receiver, connect the TV/VCR's audio and video outputs directly to the recording VCR's audio and video inputs. See the manuals supplied with your TV and VCR for details. · Video signals connected to composite video inputs can be recorded only via composite video outputs. If your TV/VCR is connected to a composite video input, the recording VCR must be connected to a composite video output. · The surround sound and DSP listening modes cannot be recorded. · Copy-protected Blu-ray discs and DVDs cannot be recorded. · Sources connected to a digital input cannot be recorded. Only analog inputs can be recorded. · DTS signals will be recorded as noise, so don't attempt analog recording of DTS CDs or LDs. · (European, Australian and Asian models) While the listening mode is set to Pure Audio, no image is provided because the power is turned off for the video circuit.

If you want to make recordings, select other listening mode. L AUDIO IN R VIDEO IN VCR, DVD recorder, cassette tape deck, CDR, MD recorder, etc. En 17 Connecting the Antennas 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 · Be careful not to injure yourself when using thumbtacks. North American and Taiwan models European, Australian and Asian models Push. Insert wire. Release. Insert the plug fully into the jack. Insert the plug fully into the jack.

Assembling the AM loop antenna Thumbtacks, etc. AM loop antenna (supplied) Indoor FM antenna (supplied) Note · Once your AV receiver is ready for use, you'll need to tune into a radio station and position the antenna to achieve the best possible reception. · Keep the AM loop antenna as far away as possible from your AV receiver, TV, speaker cables, and power cords. Tip · If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead. · If you cannot achieve good reception with the supplied indoor AM loop antenna, try using it with a commercially available outdoor AM antenna.

Connecting the Power Cord 1 (Taiwan models) Connect the supplied power cord to the AV receiver's AC INLET. 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. To AC wall outlet En 2 Plug the power cord into an AC wall outlet. 18 Turning On & Basic Operations Turning On/Off the AV Receiver ON/STANDBY RECEIVER RECEIVER Turning On 1 Press or ON/STANDBY on the front panel. Press RECEIVER followed by RECEIVER on the remote controller. The AV receiver comes on, the display lights. Turning Off 1 Press or ON/STANDBY on the front panel. Press RECEIVER followed by RECEIVER 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. Tip · For details on power management settings, see "Auto Standby" (page 47). En 19 Playback 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 section describes the procedure for using the remote controller, unless otherwise specified. Controlling Contents of USB or Network Devices See "Controlling Other Components" about the operation of other components (page 56). Press USB or NET first. Playing the Connected Component Operating with the remote controller 1 2 Press RECEIVER followed by INPUT SELECTOR. Start playback on the source component.

See also: · "Playing an iPod/iPhone via USB" (page 21) · "Playing a USB Device" (page 22) · "Listening to Internet Radio" (page 22) · "Playing Music Files on a Server" (page 24) · "Remote Playback" (page 24) · "Listening to AM/FM Radio" (page 25) · "iPod/iPhone Playback via Onkyo Dock" (page 53) · "Controlling Other Components" (page 56) To adjust the volume, use VOL /. TOP MENU This button displays the top menu for each media or service. 3 4 Select a listening mode and enjoy! See also: · "Using the Listening Modes" (page 31) · "Audyssey" (page 44) / and ENTER These buttons navigate through the menus. / This button cycles through pages. Operating on the AV receiver PLAYLIST / In Standard Mode (iPod/iPhone), this button selects playlists. This button starts playback. 1 2 3 4 Use the input selector buttons to select the input source. Start playback on the source component. To adjust the volume, use the MASTER VOLUME control. Select a listening mode and enjoy! This button selects the beginning of the current song.

Pressing this button twice selects the previous song. This button fast-reverses the current song. This button pauses playback. SEARCH You can toggle between the playback screen and the list screen during playback. DISPLAY This button switches between song informations. ALBUM +/ In Standard Mode (iPod/iPhone), this button selects albums. En 20 MENU This button returns to top menu of the Internet Radio Services. Displayed Icons Icon Description Shuffle Shuffle Album (iPod/iPhone) RETURN This button returns to the previous menu. This button fast-forwards the current song.

Playing an iPod/iPhone via USB This button selects the next song.

This button stops playback. MODE You can switch between Standard Mode and Extended Mode during iPod/iPhone playback. RANDOM This button performs random playback. All of the songs in the current folder will be played in random order. When all of the songs in the folder have been played once, they'll all be played again in a different random order. To cancel random playback, press this button again. This section explains how to play music files on the iPod/iPhone. Compatible iPod/iPhone models Made for: iPod touch (1st, 2nd, 3rd and 4th generation), iPod classic, iPod with video, iPod nano (1st, 2nd, 3rd, 4th, 5th and 6th generation), iPhone 4, iPhone 3GS, iPhone 3G, iPhone 1 2 Press USB to select the "USB" input. Connect the USB cable that comes with the iPod/iPhone to the USB port on the front of the AV receiver. While reading the contents of your iPod/iPhone, the message "Connecting. .." appears on the display. The USB indicator lights (page 8). It will flash if the AV receiver cannot read the iPod/iPhone.

Press MODE to switch to Extended Mode. A list of your iPod/iPhone model's contents appears. Use / to open a folder. Tip · With the default settings, the iPod/iPhone is operated in Standard Mode. · Pressing MODE again switches back to Standard Mode.

· When you disconnect the iPod/iPhone, the AV receiver stores the mode. This means that if you disconnect when in Extended Mode, the AV receiver will start in Extended Mode the next time you connect the iPod/iPhone. · You can also use the / , ENTER and TUNING MODE buttons on the front panel. TUNING MODE allows you to switch modes. · When connecting your iPod/iPhone with a USB cable, we recommend you use an official USB cable from Apple Inc. REPEAT Press this button repeatedly to cycle through the repeat modes. To cancel repeat playback, press REPEAT repeatedly until you select Off. Note · The buttons you can use will differ depending on the devices and media used for playback. 3 Understanding Icons on the Display This section describes icons that appear on the display during media playback. Displayed Icons Icon Description Folder Track Playback Pause Fast Forward Fast Reverse Artist Album Repeat One Track Repeat Folder (USB Device) Repeat 4 Use / to select a music file, and press ENTER or to start playback.

Note · Do not disconnect the USB device or USB cable that comes with iPod/iPhone to the USB port at the front of the AV receiver, while the message "Connecting..." appears on the display. Standard Mode control The content information is not displayed on-screen, but can be operated using the iPod/iPhone or the remote controller (USB). Note · The following iPod models are not supported in Standard Mode. These iPod models can only be controlled in Extended Mode. iPod with video iPod nano (1st generation) En 21 Extended Mode control The content information is displayed (lists are displayed) on-screen, and you can control the content while looking at the screen. Top screen list: Playlists, Artists, Albums, Genres, Songs, Composers, Shuffle Songs, Now Playing Listening to Internet Radio You need to connect the AV receiver to your home network (page 64). You can select Internet radio stations by connecting to the AV receiver from your computer and selecting stations in your web browser.

Internet radio URLs in the following formats are supported: PLS, M3U, and podcast (RSS). However, depending on the type of data or audio format used by the Internet radio station, you may not be able to listen to some stations. Note · Services available may vary depending on the region. See the separate instructions for more information. Playing a USB Device This section explains how to play music files from a USB device (e. g., USB flash drives and MP3 players). See also: · "Network/USB Features" (page 64). 1 2 3 4 Press USB to select the "USB" input. Plug your USB device into the AV receiver's USB port.

The USB indicator lights (page 8). It will flash if the AV receiver cannot read the USB device. Press ENTER. A list of the device's contents appears. To open a folder, use / to select it, and then press ENTER. Use / to select a music file, and press ENTER or to start playback. Listening to vTuner Internet Radio This unit includes the full vTuner Internet Radio Service at no additional charge. Once you have connected your unit to the Internet you can select vTuner Internet Radio to search for and play Internet radio stations and podcasts at any time. To enhance your Internet radio experience, the http://onkyo.vtuner.

com/ portal is available to you as an easy way to browse to find stations, set up/organize your favorites, add your own stations, get help, etc. After the first time you try vTuner Internet Radio on your unit you can use the MAC Address of your unit to create a member login account (email address and password) on the http://onkyo.vtuner.com/ portal. To verify your MAC Address, please see "Network Setup" (page 49). Note · If the media you connect is not supported, the message "No Storage" will appear on the display. · If you connect a USB hard disk drive to the AV receiver's USB port, we recommend that you use its AC adapter to power it. · The AV receiver supports USB MP3 players that support the USB Mass Storage Class standard, which allows USB devices to be connected to computers without the need for special drivers or software. Note that not all USB MP3 players support the USB Mass Storage Class standard. Refer to your USB MP3 player's instruction manual for details.

· Protected WMA music files on an MP3 player cannot be played. · Onkyo accepts no responsibility whatsoever for the loss or damage to data stored on a USB device when that device is used with the AV receiver. We recommend that you back up your important music files beforehand. · MP3 players containing music files that are managed with special music software are not supported. · Operation is not guaranteed for all USB devices, which includes the ability to power them.

· Do not connect your USB device via a USB hub. The USB device must be connected directly to the AV receiver's USB port. · If the USB device contains a lot of data, the AV receiver make take a while to read it. · USB devices with security functions cannot be played. · Do not disconnect the USB device or USB cable that comes with iPod/iPhone to the USB port at the front of the AV receiver, while the message "Connecting.

.." appears on the display. 1 2 Press NET. The "NET" screen appears, and the NET indicator lights (page 8). If it flashes, verify that the Ethernet cable is firmly connected to the AV receiver. Use / to select "vTuner Internet Radio" and then press ENTER.

En 22 3 Use / to select a program and then press ENTER. Playback starts. Listening to Other Internet Radio To listen to other internet radio stations, insert the following step after step 1 in the "Listening to vTuner Internet Radio".

--101 FM Frontper ch --0:21 1 MP3 64kbps 16bit/44.1kHz On your computer, start your web browser and enter the AV receiver's IP address in the browser's Internet address (URL) field. The browser connects to the AV receiver (WEB Setup Menu). Note · The AV receiver's IP address is shown on "IP Address" (page 49). · If you're using DHCP, your router may not always allocate the same IP address to the AV receiver, so if you find that you can't connect to the AV receiver, recheck the AV receiver's IP address on the "Network Setup" screen. Press MENU to enable selection from the following menu items. Stations like this: Stations like the one currently being played back are displayed. Add this station to My Favorites: Adds a station to My Favorites list. Press TOP MENU to go to the top menu of the Internet Radio services. Tip · By pressing SEARCH, you can toggle between the playback screen and the radio list screen.
2 3 4 5 Click on the "My Favorites" tab. Enter the preset name and Internet address (URL). Click "Save" to save the Internet radio station. The Internet radio station is then added to the "My Favorites". Registering Presets*1 You can add the currently playing song or station to the "My Favorites".
You can preset up to 40 Internet radio stations. Once you've added a station to the list, simply select it in the "My Favorites" menu, and then press ENTER to start playback. *1 From the search results you can preset the stations and songs but cannot listen to them directly. Top menu of Internet Radio Create new station: Add a favorite station or Internet radio to the presets. Rename this station: You can rename the preset.
Delete from My Favorites: This will delete the preset. 1 a Press MENU with the station selected or while a song is playing. Use / to select "Add this station to my favorites", and press ENTER. 2 En 23 Playing Music Files on a Server You need to connect the AV receiver to your home network (page 64). This section explains how to play music files on a computer or media server through the AV receiver (Server Playback). 4 5 Select the AV receiver in the list, and then click "Allow". Click "OK" to close the dialog box. This completes the Windows Media Player 11 configuration. You can now play the music files in your Windows Media Player 11 library through the AV receiver (page 24). Tip · Windows Media Player 11 can be downloaded for free from the Microsoft web site.

1 2 3 4 Start your computer or media server. Press NET. The "NET" screen appears. The NET indicator lights (page 8). If it flashes, confirm the network connection. Use / to select "DLNA", and press ENTER. Tip · To go back to the previous screen, press RETURN. Remote Playback You need to connect the AV receiver to your home network (page 64). Remote Playback means you can play the music files stored on a media server or personal computer with the AV receiver by operating the controller device in the home network. Use / to select a server, and then press ENTER.
The menu is displayed according to the server functions. Note · The search function does not work with media servers which do not support this function. · Photos and movies stored on a media server cannot be accessed from the AV receiver. · Depending on the sharing settings in the media server, the AV receiver may not able to access the content. See the instruction manual of the media server.
Windows Media Player 12 Setup This section explains how to configure Windows Media Player 12 so that the AV receiver can play the music files stored on your personal computer. 5 Use / to select an item, and then press ENTER or to start playback. 1 2 3 Start Windows Media Player 12. On the "Stream" menu, select "Turn on media streaming". A dialog box appears.
Move your cursor and click on "Turn on media streaming". A list of media server appears. Wording may vary slightly depending on the network location. Select the product in the list, and then click "Allowed". Click "OK" to close the dialog box. This completes the Windows Media Player 12 configuration. You can now play the music files in your Windows Media Player 12 library. 1/6 My favorite song 1 Artist name My favorite album 01:12 03:28 WMA 128kbps 16bit/44.1kHz 4 5 Note · Depending on the media server, / / may not work. · If the message "No Item.

" appears, this means that no information can be retrieved from the server. In this case, check your server, network, and AV receiver connections. Using Remote Playback Windows Media Player 11 Setup This section explains how to configure Windows Media Player 11 so that the AV receiver can play the music files stored on your computer. 1 2 Start Windows Media Player 12. To enable remote playback, you must first configure Windows Media Player 12. Press NET. The "NET" screen appears. The NET indicator lights (page 8). If it flashes, verify the network connection. 1 2 En Start Windows Media Player 11. On the "Library" menu, select "Media Sharing". The "Media Sharing" dialog box appears. Select the "Share my media" check box, and then click "OK". 3 24 3 Use / to select "DLNA", and press ENTER. A list of media server appears.
Note · Remote playback cannot be used while the music files of another media server are being played. You must stop their playback first. Listening to AM/FM Radio This section describes the procedure of using the buttons on the front panel, unless otherwise specified. 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.
You can also change the frequency steps (page 47). 4 On Windows Media Player 12, right-click on music file. Right-click menu appears. For selecting another media server, select media server from "Other Libraries" menu on Windows Media Player 12. Select the AV receiver from right-click menu. "Play to" window appears and playback on the product starts. Operations during remote playback can be made from "Play to" window of Windows 7 on your personal computer. During remote playback, operations (such as Playback, Pause, Fast Forward, Fast Rewind, Previous, Next, Repeat, Random) cannot be made. Adjusting the Volume You can adjust the volume by adjusting the volume bar in the "Remote playback" window. The default maximum volume level is 82 (0dB).

If you wish to change this, enter the value from the Web Setup in your browser. The volume value of the remote window and the volume value of the AV receiver may not always match. Adjustments you make to the volume in the AV receiver will not be reflected in the "Remote playback" window. 5 1 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 6 (Actual display depends on the country.) 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.

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. TUNED AUTO FM STEREO Tip · 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. En 25 Manual tuning mode In manual tuning mode, FM stations will be in mono.

Selecting Presets 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. 1 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 Tuning into stations by frequency You can tune into AM and FM stations directly by entering the appropriate frequency. 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. 1 On the remote controller, press TUNER repeatedly to select "AM" or "FM", followed by D.TUN. Using RDS (excluding North American and Taiwan models) (Actual display depends on the country.) RDS works only in areas where RDS broadcasts are available.

When tuned into an RDS station, the RDS indicator lights. When the station is broadcasting text information, the text can be displayed. 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 (page 27). TP (Traffic Program) This allows you to search for RDS radio stations that broadcast traffic information (page 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. 2 Within 8 seconds, use the number buttons to enter the frequency of the radio station. For example, to tune to 87.

5 (FM), press 8, 7, 5. If you have entered the wrong number, you can retry after 8 seconds. Presetting AM/FM Stations You can store a combination of up to 40 of your favorite AM/FM radio stations as presets. 1 2 Tune into the AM/FM station that you want to store as a preset. See the previous section. Press MEMORY. The preset number flashes. (Actual display depends on the country.) 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 AM/FM radio stations. En 26 Displaying Radio Text (RT) RDS program types (PTY) Type None News reports Current affairs Information Sport Education Drama Culture Display None News Affairs Info Sport Educate Drama Culture Science Varied Pop M Rock M Easy M Light M Classics Other M Weather Finance Children Social Religion Phone In Travel Leisure Jazz Country Nation M Oldies Folk M Document TEST Alarm! 1 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. · If the message "No Text Data" appears on the display, no RT information is available. Finding Stations by Type (PTY) You can search for radio stations by type. Science and technology Varied Pop music Rock music Middle of the road music Light classics Serious classics Other music Weather Finance Children's programmes Social affairs Religion Phone in Travel Leisure Jazz music Country music National music Oldies music Folk music Documentary Alarm test Alarm 1 2 3 4 Press RT/PTY/TP twice. The current program type appears on the display. Use PRESET / to select the type of program you want.

See the table shown later in this chapter. To start the search, press ENTER. The AV receiver searches until it finds a station of the type you specified, at which point it stops briefly before continuing with the search. When a station you want to listen to is found, press ENTER. If no stations are found, the message "Not Found" appears.

Listening to Traffic News (TP) You can search for stations that broadcast traffic news. 1 Press RT/PTY/TP three times. If the current radio station is broadcasting TP (Traffic Program), "[TP]" will appear on the display, and traffic news will be heard as and when it's broadcast. If "TP" without square brackets appears, this means that the station is not broadcasting TP. To locate a station that is broadcasting TP, press ENTER.

The AV receiver searches until it finds a station that's broadcasting TP. If no stations are found, the message "Not Found" appears. 2 En 27 Using Basic Functions Using the Automatic 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. Audyssey 2EQ can be used with Audyssey Dynamic EQ® and Audyssey Dynamic Volume® (page 44, 45). Before using this function, connect and position all of your speakers. Audyssey 2EQ offers two ways of measuring: the "Audyssey Quick Start" and "Audyssey 2EQ Full Calibration". · "Audyssey Quick Start" uses the measurement from one position to perform the speaker setting only. · "Audyssey 2EQ Full Calibration" uses the measurement from three positions to correct room response in addition to the speaker setting.

Each way of measurement take 2 and 10 minutes, respectively. Total measurement time varies depending on the number of speakers. The distances from position at least 1 meter (3.3 ft.). to and to must be TV : Listening area Note to : Listening position · 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. Silence the cell phone (even if it is not in use) or place it away from all audio electronics. · The microphone picks up test tones played through each speaker as Audyssey 2EQ Room Correction and Speaker Setup runs.

· Audyssey 2EQ Room Correction and Speaker Setup cannot be performed while a pair of headphones is connected. 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 , and connect it to the SETUP MIC jack. SETUP MIC jack Measurement procedure To create a listening environment in your home theater that all listeners will enjoy, Audyssey 2EQ takes measurements at up to 3 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. Audyssey 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. Speaker setup microphone When an optional unit is connected to the UNIVERSAL PORT jack on the AV receiver, the speaker setting menu may appear on screen. 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 Use / to select "Audyssey Quick Start" or "Audyssey 2EQ Full Calibration". En 28 4 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. If you select "Audyssey Quick Start", you will go to step 7. Place the setup microphone at the next position, and then press ENTER. Audyssey 2EQ performs more measurements. This takes a few minutes. When prompted, place the setup microphone at the next position, and repeat step 5. Use / to select an option, and then press ENTER. 2EQ: Auto Setup Subwoofer Front Center Surround Surr Back Surr Back Ch Crossover Save Cancel : : : : : : : Audyssey Note · 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 require you run Audyssey 2EQ Room Correction and Speaker Setup again, as room EQ characteristics may have changed. 5 6 7 Error Messages While Audyssey 2EQ® Room Correction and Speaker Setup is in progress, one of the error messages below may appear. 2EQ: Auto Setup Audyssey Ambient noise is too high. Error message <- Review Speaker Configuration -> Yes Small Small Small Small 2ch 100Hz Retry 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 / . 8 Use / to select a target, and use / to change the setting. After the results of Audyssey 2EQ have been saved, the menu will display the "Audyssey" (page 44), "Dynamic EQ" (page 44), "Dynamic Volume" (page 45) settings. Note · When "Audyssey Quick Start" has been used for measurement, "Audyssey" cannot be selected. · These settings are applied to all input selectors.

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 (page 12). Changing the Speaker Setup Manually You can manually make changes to the settings found during Audyssey 2EQ Room Correction and Speaker Setup. See also: · "Sp Config (Speaker Configuration)" (page 41) · "Sp Distance (Speaker Distance)" (page 42) · "Level Cal (Level Calibration)" (page 42) 9 10 Press ENTER. Disconnect the speaker setup microphone. En 29 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.