



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO TX-NR828. You'll find the answers to all your questions on the ONKYO TX-NR828 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-NR828  
User guide ONKYO TX-NR828  
Operating instructions ONKYO TX-NR828  
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**ONKYO**

AV RECEIVER

# TX-NR828

**Instruction Manual**

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Remote Control Codes



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**Manual abstract:**

A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. @@ 10. @@ 11. Only use attachments/accessories specified by the manufacturer. 12. @@ When a cart is used, use caution when moving the cart/apparatus S3125A combination to avoid injury from tip-over. 13. Unplug this apparatus during lightning storms or when unused for long periods of time. 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. **WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN AVIS RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR** 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. Do not use this apparatus near water. Clean only with dry cloth. Do not block any ventilation openings. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. en-2 Safety Information and Introduction 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.

Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e. 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. For models with [POWER] button, or with both [POWER] and [ON/STANDBY] buttons: Pressing the [POWER] button to select OFF 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.

For models with [ON/STANDBY] button only: 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 5. 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. 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. This device complies with Industry Canada licenceexempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter. And Canadian models FCC CAUTION Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



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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 En-3 Safety Information and Introduction RF Exposure Compliance This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules.

This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

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 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. For European Models Declaration of Conformity We declare, under our sole responsibility, that this product complies with the standards: –Safety –Limits and methods of measurement of radio disturbance characteristics –Limits for harmonic current emissions –Limitation of voltage changes, voltage fluctuations and flicker –RoHS Directive, 2011/65/EU –Hereby, Onkyo Corporation, declares that this TX-NR828 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. 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. 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. Complies with IDA Standards DA106032 23764/SDPPI/2012 2371 TRA REGISTERED DEALER 527090 ER0086260/12 TA-20120424004 No No 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. Supplied Accessories Make sure you have the following accessories: Indoor FM antenna (□ page 22) AM loop antenna (□ page 22) Power cord (□ page 24) Speaker cable labels (□ page 15) Speaker setup microphone (□ page 28) Remote controller (RC-840M) and two batteries (AA/R6) (□ page 13) Quick Start Guide \* In catalogs and on packaging, the letter at the end of the product name indicates the color. 37 Changing the Icon Layout on the Network Service Screen. 19 Operations that can be performed with RIHD connection . 25 Selecting the Language for the On-screen Setup Menus. 26 To reset the AV receiver, see page 91. (High Current Power Supply) Massive High Power Transformer • 3 Stage Inverted Darlington

Amplifier Design Connections • 8 HDMI Inputs (1 on front panel) and 2 Outputs • 4K (up-scaling and Passthrough\*)-compatible HDMI Inputs \* Compatible with HDMI IN 1 to HDMI IN 4 only • Onkyo p for System Control • 5 Digital Inputs (2 Optical/3 Coaxial) • Component Video Switching (2 Inputs/1 Output) • Banana Plug-Compatible Speaker Posts \* In Europe, using banana plugs to connect speakers to an audio amplifier is prohibited. Color, Lip Sync, 4K (up-scaling and Passthrough), DTS-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD, Dolby Digital Plus, DSD and Multi-CH PCM) • Dolby TrueHD and DTS-HD Master Audio • Dolby Pro Logic IIz and Audyssey DSX® • Non-Scaling Configuration • A-Form Listening Mode Memory • Direct Mode • Pure Audio Mode • Music Optimizer for Compressed Digital Music files • Phase Matching Bass System • 192 kHz/24-bit D/A Converters • Powerful and Highly Accurate 32-bit Processing DSP • Jitter Cleaning Circuit Technology • Powered Zone 2 • Bi-Amping Capability for FL/FR with FHL/FHR • Internet Radio Connectivity • Network Capability for Streaming Audio Files • Wi-Fi (Wireless LAN) Connectivity • Wireless Music Playback via Bluetooth • Front-Panel USB Input for Memory Devices • MHL-Enabled AUX Front Input Miscellaneous • 40 FM/(55) n SLEEP button (52) Tip • 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 (□ page 82). □ Controlling the tuner To control the AV receiver's tuner, press TUNER (or RECEIVER).

TUN button (41) c DISPLAY button d CH +/- button (42) e Number buttons (41) \*1 a b c \*1 i c \*2 j k d l m \*2 RECEIVER \*2 \*2 d e a f When you want to change the remote controller mode (target component) without changing the current input source, press MODE and within about 8 seconds, press REMOTE MODE. Then, using the same AV receiver's remote controller, you can control the component corresponding to the button you pressed. These buttons can also be used when a REMOTE MODE other than Receiver mode is selected. G e h b n En-12 Safety Information and Introduction □ Aiming the remote controller To use the remote controller, point it at the AV receiver's remote control sensor, as shown below. (5 m) □ Installing the batteries Batteries (AA/R6) Note • If the remote controller doesn't work reliably, try replacing the batteries.

□ Don't mix new and old batteries or different types of batteries. □ If you intend not to use the remote controller for 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. En-13 Connections 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 27) or manually (□ page 64).



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If your turntable has a moving coil (MC) type cartridge, you'll need a commercially available MC head amp or MC transformer to connect to PHONO IN. See your turntable's manual for details.

If your turntable has a ground wire, connect it to the AV receiver's GND screw. With some turntables, connecting the ground wire may produce an audible hum. If this happens, disconnect it. F J G H I E D C B A If you select the input selector button, the signal from the component connected to the assigned jack is played. Connections A Use this jack to connect to the HDMI input of the TV. If your TV doesn't support Audio Return Channel (ARC)\*1, you need to connect an optical digital cable together with the HDMI cable to jack F. Another TV can be connected to the HDMI OUT SUB jack. \*1 B C D E K Input selector buttons • Before making any AV connections, read the manuals supplied with your AV components. □ 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.

ARC is the function that carries the audio signal from the TV to jack A. With ARC, a single HDMI cable can connect the TV and the AV receiver. B Use this jack to connect to your Blu-ray Disc/DVD player, etc. C Use this jack to connect to the Satellite/cable settop box, etc. D Use this jack to connect to the set top box/digital video recorder, etc. En-18 Connections □ MHL (Mobile High-Definition Link) With its support for MHL (Mobile High-Definition Link), the AUX (Front) input allows you to deliver highdefinition video from a connected mobile device. network connection by wireless LAN is possible. See "Performing Wireless LAN Setup" for connections (□ page 30). internet radio MHL-enabled mobile device, etc. Modem WAN LAN K Router p The AV receiver allows interoperability of the CEC (Consumer Electronics Control) specified in the HDMI standard, which is known as RIHD.

Various linked operations can be performed by connecting the AV receiver to an RIHD-compatible TV, player, or recorder. Default setting is set to off, so it is required to change the setting to on. Perform this setting after the initial setup. Connecting to the Network (Optional) The following diagram shows how you can connect the AV receiver to your home network. In this example, it's connected to a LAN port on a router, which has a 4-port 100Base-TX switch built-in. Computer or media server About RIHD-compatible components 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. The following components are p-compatible (As of January 2013). □ TV • Sharp TV □ Players/Recorders • Onkyo and Integra p-compatible players • Toshiba players and recorders • Sharp players and recorders (only when used together with Sharp TV) \* The default of the assignment for the input selector buttons and jacks are as shown below. These settings can be changed.

(The assignment for the composite video jacks, analog audio jacks, and HDMI Front jack cannot be changed.) Input selector buttons HDMI jacks BD/DVD CBL/SAT STB/DVR GAME 1 GAME 2 PC AUX TV/CD PHONO HDMI IN 1 HDMI IN 2 HDMI IN 3 HDMI IN 4 HDMI IN 5 HDMI IN 6 HDMI Front DIGITAL IN OPTICAL 2 AUDIO IN PC VIDEO/AUDIO IN AUX AUDIO IN TV/CD AUDIO IN PHONO COMPONENT VIDEO jacks COMPONENT VIDEO IN 1 COMPONENT VIDEO IN 2 DIGITAL IN COAXIAL and OPTICAL jacks DIGITAL IN COAXIAL 1 DIGITAL IN COAXIAL 2 DIGITAL IN COAXIAL 3 DIGITAL IN OPTICAL 1 Composite video and analog audio jacks VIDEO/AUDIO IN BD/DVD VIDEO/AUDIO IN CBL/SAT VIDEO/AUDIO IN STB/DVR VIDEO/AUDIO IN GAME 1 Models other than those mentioned above may have some interoperability if compatible with CEC, which is part of the HDMI Standard, but operation cannot be guaranteed. Note • For proper linked operations, do not connect more p-compatible components than the quantities specified below, to the HDMI input terminal. □ Do not connect the AV receiver to another AV receiver/AV amplifier via HDMI. □ Proper linked operations are not guaranteed when more p-compatible components than the abovementioned quantities are connected. En-19 Connections Operations that can be performed with RIHD connection □ For p-compatible TV The following linked operations are enabled by connecting the AV receiver to an p-compatible TV. □ The AV receiver will enter standby mode when the TV is set to standby. □ You can set on the menu screen of the TV to either output the audio from the speakers connected to the AV receiver, or from the speakers of the TV. □ It is possible to output the audio coming from the tuner or auxiliary input of your TV to the speakers of the AV receiver. (A connection such as an optical digital cable or similar is required in addition to the HDMI cable.

) • Input to the AV receiver can be selected with the remote controller of the TV. □ Operations such as volume adjustment or similar for the AV receiver can be performed from the remote controller of the TV. □ For p-compatible players/recorders The following linked operations are enabled by connecting the AV receiver to an p-compatible player/recorder. □ When playback is started on the player/recorder, AV receiver will switch to the HDMI input of the player/recorder that is playing back. □ Operation of the player/recorder is possible using the remote controller supplied with the AV receiver. \* Confirm the settings 1. Turn on the power for all connected components. 2. Turn off the power of the TV, and confirm that the power of the connected components is turned off automatically with the link operation. 3.

Turn on the power of the Blu-ray Disc/DVD player/recorder. 4. Start playback on the Blu-ray Disc/DVD player/recorder, and verify the following: • The AV receiver automatically turns on, and selects the input to which the Blu-ray Disc/DVD player/recorder is connected. □ The TV automatically turns on, and selects the input to which the AV receiver is connected. 5.

Following the operating instructions of the TV, select "Use the TV speakers" from the menu screen of the TV, and confirm that the audio is output from the speakers of the TV, and not from the speakers connected to the AV receiver. 6. Select "Use the speakers connected from the AV receiver" from the menu screen of the TV, and confirm that the audio is output from the speakers connected to the AV receiver, and not from the TV speakers. Note • Audio from DVD-Audio or Super Audio CD may not output from the TV speakers. You will be able to output the audio from the TV speakers by setting the audio output of the DVD player to 2ch PCM.

(It may not be possible depending on the player models.) • Even if you set to output audio on the TV speakers, audio will be output from the speakers connected to the AV receiver when you adjust the volume or switch the input on the AV receiver.



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To output audio from the TV speakers, redo the corresponding operations on the TV. □ In case of an p connection with u and u audio control compatible components, do not connect the u cable at the same time. □ On the TV, when you select anything other than the HDMI jack to which the AV receiver is connected, the input on the AV receiver will be switched to “TV/CD”. □ The AV receiver will automatically power on in conjunction when it determines it to be necessary. Even if the AV receiver is connected to an p compatible TV or player/recorder, it will not power on if it is not necessary. It may not power on in conjunction when the TV is set to output audio from the TV. □ Linked functions with the AV receiver may not work depending on the component model connected. In such cases, operate the AV receiver directly.

**Connection Tips** The video and audio signal flow Connect the AV receiver between the AV components and the TV. The signal from the AV components is carried through the AV receiver. You can enjoy the audio of the TV through the AV receiver. Depending on the model used, not all operations may be available. **Note** • Do not assign an HDMI IN to the TV/CD selector at this time, otherwise appropriate CEC (Consumer Electronics Control) operation will not be guaranteed. Video components 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, with composite video and component video sources all being upconverted for the HDMI output(s). Composite Component HDMI \*2 This is possible when “Audio Return Channel” is set to “Auto” (□ page 76), the TV/CD input selector is selected, and your TV is ARC capable. **Tip** IN IN AV receiver MONITOR OUT Composite Component HDMI AV receiver MONITOR OUT Composite Component HDMI • When a signal is input via HDMI and the corresponding input selector is selected, the HDMI indicator lights. In the case of an optical or coaxial connection, the DIGITAL indicator lights.

If the analog audio is output, or if neither HDMI nor digital signal inputs are assigned, ANALOG indicator lights. The composite video and component video outputs pass through their respective input signals as they are. **Note** • In order for the AV receiver to upconvert component input to HDMI output, the source output must be set to 480i/576i. When signal is input at resolution of 480p/576p and more, error message will be displayed. □ For optimal video performance, THX recommends that video signals pass through the system without upconversion (e.

□ To by-pass the upconversion, set the “Picture Mode” setting to “Bypass” (□ page 71). Audio components 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. If signals are present at more than one input, the inputs will be selected automatically in the following order of priority: HDMI, digital, analog. □ 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 below, video signals are present at both the HDMI and composite video inputs.

However, the HDMI signal is automatically selected as the source and the video is output by the HDMI outputs. □ Component video 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). Y CB/PB CR/PR Green Blue Red □ Composite video Composite video is commonly used on TVs, DVDs, and other video equipment. En-21 Connections □ Optical digital audio Optical digital connections allow you to enjoy digital sound such as PCM\*1, Dolby Digital or DTS.

The audio quality is the same as coaxial. 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.

□ Coaxial digital audio Coaxial digital connections allow you to enjoy digital sound such as PCM\*1, Dolby Digital or DTS. The audio quality is the same as optical. (North American models) (European and Australian models) Insert the plug fully into the jack. Insert the plug fully into the jack. □ Analog audio (RCA) Analog audio connections (RCA) carry analog audio. White Red \*1 Assembling the AM loop antenna Caution • Be careful not to injure yourself when using thumbtacks, thumbtacks, etc. For PCM signals, the supported sampling rates are 32/44. □ 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 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. AM loop antenna (supplied) Indoor FM antenna (supplied) • To prevent shutter damage, hold the optical plug straight when inserting and removing.

En-22 Connections Connecting Onkyo RI Components Using Headphones 1 2 3 Make sure that each Onkyo component is connected with an analog audio cable (connection I in the hookup examples) (□ page 18). Make the u connection (see the illustration). If you're using an RI Dock, or cassette tape deck, change the Input Display (□ page 53). 1 Connect a pair of stereo headphones with a standard plug (1/4 inch or ø 6.3 mm) to the PHONES jack.

While the headphones plug is inserted in the PHONES jack, = indicator, speaker/channel indicator FL and FR lights. **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 Zone 2/3 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.



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With u (Remote Interactive), you can use the following special functions: □ System On/Auto Power On When you start playback on a component connected via u, 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 u, 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 u-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 83). , cassette tape deck R L ANALOG AUDIO OUT R L ANALOG AUDIO OUT RI Dock Note • Use only u cables for u connections.

U cables are supplied with Onkyo components. • Some components have two u jacks. You can connect either one to the AV receiver. The other jack is for connecting additional u-capable components. • Connect only Onkyo components to u jacks. Connecting other manufacturer's components may cause a malfunction. • Some components may not support all u functions. Refer to the manuals supplied with your Onkyo components. □ While Zone 2/3 is on, the System On/Auto Power On and Direct Change u functions do not work. en-23 Turning On & Basic Operations 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. Turning Off Turning On & Basic Operations 1 Press 8ON/STANDBY on the front panel. Or Press RECEIVER followed by 8RECEIVER 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.

Turning On Turning On/Off the AV Receiver Connecting the Power Cord Tip 1 Press 8ON/STANDBY on the front panel. Or Press RECEIVER followed by 8RECEIVER on the remote controller. The AV receiver comes on and its display lights. 1 Connect the supplied power cord to the AV receiver's AC INLET. □

The HYBRID STANDBY indicator may light depending on the status of settings (□ page 25). □ For details on power management settings, see "Auto Standby" (□ page 76). □ If the HDMI Through setting is not set in standby mode, an MHL-enabled mobile device cannot be charged even if it is connected. □ Smooth Operation in a Few Easy Steps (Initial Setup) To ensure smooth operation, here's a few easy steps to help you configure the AV receiver before you use it for the very first time. These settings only need to be made once. See "Initial Setup" for details (□ page 25).

To AC wall outlet 2 Plug the power cord into an AC wall outlet. 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 En-24 Turning On & Basic Operations Firmware Update Notification When a new version of the firmware is available, the notification window "Firmware Update Available" pops up. This notification only appears when the AV receiver is connected to the Internet (□ pages 19, 30). To perform the firmware update, follow the instructions on screen. Use q/w and ENTER on the AV receiver or remote controller to select one of the options. Remind me Later: The update notification will pop up again the next time you turn the AV receiver on. Never Remind me: Disables the automatic update notification. tip • The update notification window can be enabled or disabled in "Update Notice" (□ page 77). Initial Setup This section explains the settings that we recommend you to make before using the AV receiver for the very first time.

A setup wizard is launched upon first-time use to let you perform those settings. Tip • The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN. 1 Selecting the Language for the Onscreen Setup Menus This step determines the language used for the onscreen setup menus. To restart the initial setup, select "Initial Setup" in the "Hardware Setup" menu (□ page 78). Use q/w on the AV receiver or remote controller to select one of the following options, and then press ENTER.

yes: Continues to "Audyssey MultEQ: Auto Setup". No: Skips the settings and terminates the initial setup. The setup wizard goes to "Terminating the Initial Setup" (□ page 26). You can always restart the initial setup by selecting "Initial Setup" in the "Hardware Setup" menu (□ page 78). Audyssey MultEQ: Auto Setup This step performs the automatic speaker setup.

1 About the HYBRID STANDBY indicator By way of optimized circuitry, this function reduces power consumption when the AV receiver is in standby mode.

The HYBRID STANDBY indicator will light in either of the following conditions: –"HDMI Through" is enabled (the HDMI indicator is off). –"Network Standby" is enabled (the NET indicator is off). Note • If Zones are turned on or, if a mobile device connected to the Front Input (MHL) is charging, the HYBRID STANDBY indicator won't light. After selecting the language for on-screen setup menus, a welcome screen is displayed. initial Setup Welcome to initial setup. Have you connected all the speakers and devices? before starting , please connect speakers and sources. Now, would you like to start initial setup? 1st Step : Audyssey MultEQ: Auto Setup 2nd Step : Source Connection 3rd Step : Remote Mode Setup 4th Step : Network Connection Yes No HOME Exit Use q/w to select one of the following options, and then press ENTER. do it Now: The automatic speaker setup is performed following instructions on screen. Refer to step 2 of "Using the Automatic Speaker Setup" (□ page 27).

When this setting is complete, the setup wizard continues to "Source Connection". En-25 Turning On & Basic Operations Source Connection This step checks the connection of source components. Remote Mode Setup With this step, you can enter remote control codes for the components you want to operate. 2 1 Use q/w to select one of the following options, and then press ENTER. Yes, Continue: Performs the checkings. No, Skip: Skips this step and continues to "Remote Mode Setup". Select the input selector for which you want to check the connection and press ENTER. The picture and sound of the corresponding source should appear on screen with a verification prompt.



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When prompted, use *q/w* to select one of the following options and then press **ENTER**. Follow the troubleshooting instructions and recheck the source. Use *q/w* to select one of the following options, and then press **ENTER**. 1 2 Use *q/w* to select one of the following options, and then press **ENTER**. yes: Performs the remote control code input. Refer to step 5 of "Looking up for Remote Control Codes" (□ page 82). No, Skip: Skips this step and continues to "Network Connection".

When you're finished, select one of the following options and press **ENTER**. Yes, Done: The setup wizard continues to "Network Connection". No, not yet: You can enter other remote control codes. Follow the instructions on screen to perform the network checking. The checking is complete when the message "Successfully connected."

□ appears at the middle of the screen. press **ENTER** to terminate the initial setup. Tip • If you have selected "Wireless", you need to perform the wireless LAN setup. see "Performing Wireless LAN Setup" (□ page 30). This completes the initial setup. No, Do it Later: Skips this step and terminates the initial setup. The setup wizard goes to "Terminating the Initial Setup". Terminating the Initial Setup Network Connection This step checks your network connection. This step ends the initial setup process. 4 1 1 Use *q/w* to select one of the following options, and then press **ENTER**.

yes: Performs the checkings. No, Skip: Skips this step and terminates the initial setup. press **ENTER**. To restart the initial setup, select "Initial Setup" in the "Hardware Setup" menu (□ page 78). En-26 Turning On & Basic Operations Using the Automatic Speaker Setup With the supplied calibrated microphone, Audyssey MultEQ® automatically determines the number of speakers connected, their size for purposes of bass management, optimum crossover frequencies to the subwoofer (if present), and distances from the primary listening position. Audyssey MultEQ then removes the distortion caused by room acoustics by capturing room acoustical problems over the listening area in both the frequency and time domain. The result is clear, well-balanced sound for everyone. Audyssey MultEQ can be used with Audyssey Dynamic EQ® and Audyssey Dynamic Volume® (□ page 69). Before using this function, connect and position all of your speakers. Audyssey MultEQ offers two ways of measuring: the "Audyssey Quick Start" and "Audyssey MultEQ Full Calibration".

□ "Audyssey Quick Start" uses the measurement from one position to perform the speaker setting only. □ "Audyssey MultEQ Full Calibration" uses the measurement from six positions to correct room response in addition to the speaker setting. The more positions are used in measuring, the better the listening environment will become. We recommend using a measurement from six positions to create the best listening environment. The Quick Start takes 2 minutes and Full Calibration takes about 20 minutes.

Total measurement time varies depending on the number of speakers. Measurement procedure To create a listening environment in your home theater that all listeners will enjoy, Audyssey MultEQ takes measurements at up to six 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 MultEQ uses the measurements from this position to calculate speaker distance, level, and the optimum crossover value for the subwoofer. □ Second-sixth measurement positions These are the other listening positions (i. e. , the places where the other listeners will sit). you can measure up to six positions. Note • 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 played through each speaker as Audyssey MultEQ Room Correction and Speaker Setup runs.

□ Audyssey MultEQ Room Correction and Speaker Setup cannot be performed while a pair of headphones is connected. TV def cab : Listening area a to f: Listening position En-27 Turning On & Basic Operations 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 a, and connect it to the SETUP MIC jack. SETUP MIC jack 4 Adjust the subwoofer volume level to 75 dB, and then press **ENTER**. Test tones are played through the subwoofer. Use the volume control on the subwoofer. Note • If your subwoofer does not have a volume control, disregard the displayed level and press **ENTER** to proceed to the next step. □ If you set the subwoofer's volume control to its maximum and the level displayed is lower than 75 dB, leave the subwoofer's volume control at its maximum and press **ENTER** to proceed to the next step. Test tones are played through each speaker as Audyssey MultEQ 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 MultEQ Room Correction and Speaker Setup, unless you want to cancel the setup. If you select "Audyssey Quick Start", you will go to step 9. Place the speaker setup microphone at the next position, and then press **ENTER**. audyssey MultEQ performs more measurements. This takes a few minutes. When prompted, repeat step 7. the speaker setting menu appears. Note • The on-screen menus appear only on a TV that is connected to HDMI OUT MAIN.

If your TV is connected to other video outputs, use the AV receiver's display when changing settings. Tip • You can view the calculated settings for the speaker configuration, speaker distances, and speaker levels by using *e/r*. 3 When you've finished making the settings, press **ENTER**. multEQ: Auto Setup AUDYSSEY 10 Speakers Type(Front) Powered Zone 2 Subwoofer Normal No Yes Perform the "2. Speaker Setup" according to your speaker configuration: – Speakers Type(Front) (□ page 64) – Powered Zone 2 (□ page 64) – Subwoofer (□ page 64) Use *q/w* to select a target, and use *e/r* to change the setting. After the results of Audyssey MultEQ have been saved, the menu will display the "Audyssey" (□ page 68), "Dynamic EQ" (□ page 69), "Dynamic Volume" (□ page 69) settings.



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Note • When “Audyssey Quick Start” has been used for measurement, “Audyssey” cannot be selected. • These settings are applied to all input selectors. 7 8 If you use a powered subwoofer(s), go to step 4. If not, go to step 5.

En-28 Turning On & Basic Operations Note • You can cancel Audyssey MultEQ® 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 MultEQ Room Correction and Speaker Setup. □ If the AV receiver is muted, it will be unmuted automatically when Audyssey MultEQ Room Correction and Speaker Setup starts. □ Changes to the room after Audyssey MultEQ Room Correction and Speaker Setup requires you run Audyssey MultEQ Room Correction and Speaker Setup again, as room EQ characteristics may have changed. Error Messages While Audyssey MultEQ Room Correction and Speaker Setup is in progress, one of the error messages below may appear. MultEQ: Auto Setup AUDYSSEY The setup of the speaker can be done manually (□ page 64). The setup of the volume level of each speaker also can be done manually (□ page 65). Note • Please note that THX recommends any THX main speakers be set to “80Hz(THX)”. If you set up your speakers using Audyssey MultEQ Room Correction and Speaker Setup, please make sure manually that any THX speakers are set to “80Hz(THX)” crossover (□ page 64). □ Sometimes due to the electrical complexities of subwoofers and the interaction with the room, THX recommends setting the level and the distance of the subwoofer manually.

□ Sometimes due to interaction with the room, you may notice irregular results when setting the level and/or distance of the main speakers. If this happens, THX recommends setting them manually. Ambient noise is too high. □ 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. If this message appears after 2 or 3 attempts, contact your Onkyo dealer. 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 MultEQ 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 MultEQ 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. En-29 Turning On & Basic Operations Performing Wireless LAN Setup A wireless LAN (WLAN) is a local area network that relies on wireless communication. To achieve a wireless network connection, you will need the following component: □ Access point Also known as the base station, it links your AV receiver (wireless client) with a PC or network. Access points fall into two categories: the bridge type that only performs data relay in a local area network, or the router type that has a built-in router functionality. To achieve a wireless network connection, it is necessary to perform the wireless LAN setup. The setup can be done either automatically or manually. You use your AV receiver as a wireless client (wireless terminal) and connect it to a PC or to the Internet. The method to make settings by “Push Button Configuration” is displayed, providing the following two options: Tip \*1 □ PIN code method 1.

Use q/w to select “PIN Code” and then press ENTER. An 8-digit PIN code is displayed. The PIN code is displayed scrolling on the AV receiver’s display. 2. Input the provided code in your Access Point. For information on the registration process, please refer to the instruction manual provided with your Access Point device. 7 Automatic wireless LAN setup (North American models) To connect to Linksys E/EA Router, select “Push Button Configuration (Linksys E/EA Router)” and make settings following the instructions on the screen. Press ENTER to confirm. Connection to your Access Point starts and Wi-Fi indicator flashes. After the connection to your Access Point is completed, Wi-Fi indicator lights and the connection status is displayed on the screen. This completes the wireless LAN setup. You can review your setup with the “Status” option on the “Wireless Setup” menu. Note • If Wi-Fi indicator doesn’t light, the connection to your Access Point is not done successfully. Configure this setting again (□ page 94). 1 2 3 4 Press RECEIVER followed by HOME. Use e/r or q/w to select “Setup”, and then press ENTER. Use q/w to select “Hardware Setup”, and then press ENTER. Use q/w to select “Network”, and then press ENTER. □ Push Button method 1. Use q/w to select “Push Button” and then press ENTER. 2. Press the WPS button on your Access Point device. Tip • How long the WPS button should be pressed differs depending on the type of Access Point device. Refer to the instruction manual provided with your Access Point device for operations. en-30 Turning On & Basic Operations Manual wireless LAN setup 7 1 2 3 4 5 Press RECEIVER followed by HOME. Use e/r or q/w to select “Setup”, and then press ENTER. Use q/w to select “Hardware Setup”, and then press ENTER. Use q/w to select “Network”, and then press ENTER. Use q/w to select “Network Connection”, and e/r to select “Wireless”, and then press ENTER (□ page 77). Use q/w to select the Access Point you wish to connect to, and then press ENTER.

Depending on your encryption settings, the security of your Access Point will provide one of the following patterns: □ WEP method 1. Use q/w to select “Default Key ID” and then press ENTER. 2. Use q/w to choose an ID between 1 and 4, and then press ENTER. 3. Use q/w to select “Password” and then press ENTER. 4. Use the keyboard on screen to enter the password and confirm with “OK”. □ WPA/WPA2 method 1. Use q/w to select “Password” and then press ENTER.

2. Use the keyboard on screen to enter the password and confirm with “OK”. □ No encryption If your Access Point device is not secured by encryption, there is no need to input any secret key. 8 Select “OK” and press ENTER. Connection to your Access Point starts and Wi-Fi indicator flashes. After the connection to your Access Point is completed, Wi-Fi indicator lights and the connection status is displayed on the screen. This completes the wireless LAN setup.



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You can review your setup with the “Status” option on the “Wireless Setup” menu. Note • If Wi-Fi indicator doesn’t light, the connection to your Access Point is not done successfully. Configure this setting again (□ page 94).

Tip • If Access Point you wish to connect to is not displayed in the list of available Access Points, the setting also can be made by entering “SSID”, “Security”, and “Password” manually after selecting “Direct Input”. Tip • When you select the Access Point you wish to connect to from the list of available Access Points, “SSID” and “Security” are automatically displayed. These settings can be changed manually. En-31 Playback • “Playing Music Files on a Shared Folder” (□ page 39) • “Remote Playback” (□ page 40) • “Listening to AM/FM Radio” (□ page 41) • “Playing Audio and Video from Separate Sources” (□ page 43) • “Controlling Other Components” (□ page 82) • “Using the Onkyo Dock” (□ page 87) 1 2 Turn on the AV receiver, the TV and the AV components.

\* When you operate the AV receiver with the remote controller, press the RECEIVER button first. Playback 1 Playback This section describes the basic operation such as playback, listening mode, and other useful functions. Reading this manual from the beginning to this section helps you to understand the basic connection/setup/operation. □ Screen Saver If there is no video signal on the current input source and no operation for a specific time (three minutes by default), a screen saver automatically comes on. Tip 2 4 3 Select the input on the AV receiver to play the AV components. Press the input selector button to which the AV components to be played is connected.

Press the TV/CD button to play the audio of the TV. Switching the input on the TV is also required. Select the input to which the AV receiver is connected by using the TV remote controller. \* For the CEC compatible TV and the AV components connected with HDMI connections, switching the input is automatically performed. Switch the input manually for other AV components. Select the desired listening mode. You can enjoy various types of listening mode. The listening mode is switched by pressing Listening mode button on the AV receiver or the remote controller. adjust the volume. You can enjoy the surround sound.

3 4 • The time until the screen saver activates itself can be changed in the “Screen Saver” setting (□ page 74). □ The screen will return to its previous state if the AV receiver is operated. See also: • “Playing an Audio from Bluetooth-enabled Device” (□ page 34) • “Playing a USB Device” (□ page 35) • “Listening to TuneIn” (□ page 35) • “Registering Other Internet Radio” (□ page 37) • “Playing Music Files on a Server (DLNA)” (□ page 37) Tip • 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. 1 2 3 4 (Actual location of buttons depends on the country).

) En-32 Playback Controlling Contents of USB or Network Devices (□ page 34) Press USB or NET first. A TOP MENU This button displays the top menu for each media or service. b q/w and ENTER These buttons navigate through the menus. O REPEAT Press this button repeatedly to cycle through the repeat modes. Tip • See “Controlling Other Components” about the operation of other components (□ page 82).

• The AV receiver supports Album art display, and displaying image file format of JPEG, PNG, and BMP is possible. The image file format cannot be displayed in either of the following cases: – Total number of horizontal and vertical pixels is more than 2048 x 2048. □ Image data size (JPEG/PNG) is more than 4 MB. Note • The buttons you can use will differ depending on the devices and media used for playback. □ When you select the NET input selector on the AV receiver for the first time, “DISCLAIMER” screen is displayed on TV. Please read the contents thoroughly before using network service. Select “Agree” if you agree with the content. If you disagree, network service is not available on the AV receiver (□ page 98). D 7 This button selects the beginning of the current song. Pressing this button twice selects the previous song.

H a b c d e f g i j k l m n o g SEARCH You can toggle between the playback screen and the list screen during playback. H DISPLAY This button switches between song information during playback. Press this button while the list screen is displayed to return to the playback screen. En-33 Playback Understanding Icons on the Display This section describes icons that appear on the AV receiver’s display during media playback. Icon Description Folder Track Playback Pause Fast Forward Fast Reverse Artist Album Playing an Audio from Bluetooth-enabled Device About the Bluetooth Wireless Technology Bluetooth wireless technology is a short-range wireless technology that enables wireless data communication between digital devices. Bluetooth wireless technology operates within a range of about 15 meters (49 feet). You do not need to use a cable for connection, nor is it necessary for the devices to face one another, such is the case with infrared technology. Tip • The on-screen information appears only on a TV that is connected to HDMI outputs. □ If your Bluetooth-enabled device supports A2DP protocol, its audio file will play through the AV receiver. □ Connection is not guaranteed for all Bluetooth-enabled devices.

Pairing the AV receiver with a Bluetooth-enabled device Pairing is an operation where Bluetooth-enabled devices register with each other beforehand. Use the procedure below to pair the AV receiver with your Bluetooth-enabled device. Once a pairing operation is performed, it does not need to be performed again. 1 2 Place the Bluetooth-enabled device within 1 meter (3. BLUETOOTH indicator flashes and the AV receiver is put to pairing mode.

“Now Pairing” appears on the AV receiver’s display. Tip • The same operation can be done by pressing BLUETOOTH button on the AV receiver. □ When connecting a Bluetooth-enabled device paired with the AV receiver to the AV receiver, BLUETOOTH input selector is automatically selected. □ If you connect the AV receiver to another Bluetooth-enabled device, hold down BLUETOOTH button until BLUETOOTH indicator flashes or make settings in “Status” of “Bluetooth” for pairing (□ page 78). □ Some Bluetooth-enabled device may need to reestablish pairing for each connection.



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