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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO TX-NR414. You'll find the answers to all your questions on the ONKYO TX-NR414 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-NR414
User guide ONKYO TX-NR414
Operating instructions ONKYO TX-NR414
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Instruction manual ONKYO TX-NR414

ONKYO

AV RECEIVER

TX-NR414

Instruction Manual

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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 combination to S3125A 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 extended period, remove the power cord from the AC outlet. 5. **Preventing Hearing Loss** Caution Excessive sound pressure from earphones and headphones can cause hearing loss. 6. **Batteries and Heat Exposure** Warning Batteries (battery pack or batteries installed) shall not be exposed to excessive heat as sunshine, fire or the like. 7. **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. 8.

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. 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. en-3 **Safety Information and Introduction For Canadian Models** **NOTE: THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.**



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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. 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 BSI362 and have the same ampere rating as that indicated on the plug. Check for the ASTA mark or the BSI mark on the body of the fuse. If the power cord's plug is not suitable for your socket outlets, cut it off and fit a suitable plug.

Fit a suitable fuse in the plug. For European Models Declaration of Conformity We, ONKYO EUROPE ELECTRONICS GmbH LIEGNITZERSTRASSE 6, 82194 GROEBENZELL, GERMANY declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN60065, EN55013, EN55020 and EN61000-3-2, -3-3. GROEBENZELL, GERMANY K. MIYAGI 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. ONKYO EUROPE ELECTRONICS GmbH 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. En-4 Safety Information and Introduction Supplied Accessories Make sure you have the following accessories: Indoor FM antenna (□ page 18) AM loop antenna (□ page 18) Power cord (Taiwanese models) (□ page 18) Speaker cable labels (□ page 12) Remote controller (RC-834M) and two batteries (AA/R6) (Note for China: The battery for the remote controller is not supplied for this unit.) Quick Start Guide □ Installing the batteries □ Aiming the remote controller To use the remote controller, point it at the AV receiver's remote control sensor, as shown below. (5 m) 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.

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. 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. 52 To reset the AV receiver to its factory defaults, turn it on and, while holding down CBL/SAT, press 8ON/STANDBY (□ page 59). (High Current Power Supply) Massive High Power Transformer Connections • 6 HDMI Inputs and 1 Output • Onkyo p for System Control • 4 Digital Inputs (2 Optical/2 Coaxial) • Component Video Switching (2 Inputs/1 Output) • Banana Plug-Compatible Speaker Posts • Miscellaneous • 40 FM/AM Presets • 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 u-Compatible Remote In Europe, using banana plugs to connect speakers to an audio amplifier is prohibited.

) * Available services may vary depending on the region. □ Network Capability for Streaming Audio Files • Front-Panel USB Input for Memory Devices and iPod®/iPhone® models En-7 Safety Information and Introduction Front & Rear Panels Front Panel (North American and Taiwanese models) (European, Australian and Asian models) a b c d e f g h i j k l m u v n o p q j SETUP button (41) r s t HYBRID STANDBY indicator (42) u PURE AUDIO button and indicator (European, Australian and Asian models) (30) v RT/PTY/TP button (European, Australian and Asian models) (28) For detailed information, see the pages in parentheses. Opt indicator (37, 40) g Tuning indicators RDS indicator (excluding North American and Taiwanese models) (28) AUTO indicator (27) TUNED indicator (27) FM STEREO indicator (27) h MUTING indicator (37) i Input indicators (68) HDMI indicator (49) DIGITAL indicator j ARC indicator (50) k USB indicator (22, 23) m n o p l NET indicator (23 to 26, 51) m Message area n SLEEP indicator (36) o Channel/Unit indicators ch indicator Hz indicator m/ft indicator dB indicator p ASb indicator (48) En-9 Safety Information and Introduction Rear Panel (North American, European, Australian and Asian models) (Taiwanese models) a b c d e f g m h i jkl i Composite video and analog audio jacks (BD/DVD IN, CBL/SAT IN, GAME IN, PC IN, TV/CD IN) 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. □ 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.

Using a Powered Subwoofer LINE INPUT LINE INPUT Powered subwoofer Corner position 1/3 of wall position 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. AV receiver □ 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). □ 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 Green Blue Red Blu-ray Disc/ DVD player Game console PB PR Other cables TV, projector, etc. : Video : Audio • To prevent shutter damage, hold the optical plug straight when inserting and removing. AV receiver □ Composite video Composite video is commonly used on TVs, DVDs, and other video equipment. Yellow Blu-ray Disc/ DVD player Game console □ Optical digital audio Optical digital connections allow you to enjoy digital sound such as PCM*1, Dolby Digital or DTS.



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The audio quality is the same as coaxial.

□ 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 Right! Good connections (loose connections can cause noise or malfunctions). □ To prevent interference, keep audio and video cables away from power Wrong! cords and speaker cables. □ 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. Orange En-14 Connections Connecting Components with HDMI Satellite/cable set-top box, etc. personal computer TV, projector, etc. Blu-ray Disc/DVD player Game console ** If your TV doesn't support Audio Return Channel (ARC), you need to connect an optical digital cable together with the HDMI cable to the AV receiver. 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. See also: • "Connection Tips and Video Signal Path" (□ page 68) • "Using an RIHD-compatible TV, Player, or Recorder" (□ page 69) • "About HDMI" (□ page 71) Tip • To listen to the audio of a component connected via HDMI through your TV's speakers, enable "HDMI Through" (□ page 49) and set the AV receiver to standby mode. Note • In the case of Blu-ray Disc/DVD players, if no sound is output despite following the above-mentioned procedure, set your Blu-ray Disc/DVD player's HDMI audio settings to PCM. □ 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. □ This function can be used when: – Your TV is ARC capable, and – The TV/CD input selector is selected, and – "HDMI Ctrl (RIHD)" is set to "On" (□ page 49), and – "Audio Return Ch" is set to "Auto" (□ page 50).

Connect your components to the appropriate jacks. The default input assignments are shown below. □: Assignment can be changed (□ page 43). Jack HDMI IN1 HDMI IN2 HDMI IN3 HDMI IN4 HDMI IN5 HDMI IN6 HDMI OUT Components Blu-ray Disc/DVD player Satellite/cable set-top box, etc. game console Personal computer Other components Other components TV, projector, etc.

□ □ □ □ □ En-15 Connections Connecting Your Components A BC The on-screen menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to other video outputs, use the AV receiver's display when changing settings. □: Assignment can be changed (□ page 43). no. Jack/Port A AUX INPUT VIDEO AUDIO L/R B C D USB, AUX INPUT VIDEO*1 USB*2 DIGITAL IN OPTICAL 1 (GAME) OPTICAL 2 (TV/CD) Game consoles TV, CD player □ □ □ □ iPod/iPhone (video playback) iPod/iPhone, MP3 player, USB flash drive Camcorder, etc Components Note *1 *2 *3 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. cOAXIAL 1 (BD/DVD) Blu-ray Disc/DVD player D E F G E COAXIAL 2 (CBL/SAT) Satellite/cable set-top box, RI dock, etc. COMPONENT VIDEO IN 1 (BD/DVD) IN 2 (CBL/SAT) OUT F G ETHERNET MONITOR OUT BD/DVD IN CBL/SAT IN GAME IN PC IN TV/CD IN Blu-ray Disc/DVD player, RI dock Satellite/cable set-top box, RI dock, etc. Blu-ray Disc/DVD player Satellite/cable set-top box, etc. Game console, RI dock Personal computer TV, CD player, cassette tape deck, MD, CD-R, Turntable*3, RI dock • With connection D, you can enjoy Dolby Digital and DTS. (To listen in Zone 2 as well, use D and G.) • With connection G, you can listen audio from the external components while you are in Zone 2. □ With connection G, if your Blu-ray Disc/DVD player has both the main stereo and multichannel outputs, be sure to connect the main stereo. □ □ 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 68). En-16 Connections Connecting Onkyo u Components 1 2 3 Make sure that each Onkyo component is connected with an analog audio cable (connection G in the hookup examples) (□ page 16). Make the u connection (see the illustration). If you're using an RI Dock, or cassette tape deck, change the Input Display (□ page 37). 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 56)., 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 is on, the System On/Auto Power On and Direct Change u functions do not work. En-17 Connections 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. North American and Taiwanese models European, Australian and Asian models Connecting the Power Cord 1 (Taiwanese models) Connect the supplied power cord to the AV receiver's AC INLET.



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Insert the plug fully into the jack. Insert the plug fully into the jack. To AC wall outlet Assembling the AM loop antenna Caution 2 Thumbtacks, etc. Plug the power cord into an AC wall outlet. □ Be careful not to injure yourself when using thumbtacks. 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.

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. En-18 Turning On & Basic Operations Turning On/Off the AV Receiver 8ON/STANDBY Turning On Turning Off 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 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. 8RECEIVER RECEIVER □ If the "Update New F/W" window appears. When a new version of the firmware is available, the notification window "Update New F/W" pops up. This notification only appears when the AV receiver is connected to your home network (□ page 72). To perform the firmware update, follow the instructions on screen.

Use the q/w and ENTER buttons on the AV receiver or remote controller to select one of the options, and then press ENTER. 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 51). Tip • The HYBRID STANDBY indicator may light depending on the status of settings (□ page 42). □ For details on power management settings, see "Auto Standby" (□ page 48). En-19 Turning On & Basic Operations Playback The on-screen menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to other video outputs, use the AV receiver's display when changing settings. This section describes the procedure for using the remote controller, unless otherwise specified. Playing the Connected Component □ Operating with the remote controller □ Operating on the AV receiver Input selector buttons LISTENING MODE MASTER VOLUME INPUT SELECTOR

RECEIVER VOL q/w 1 Listening mode buttons 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. See also: • "Playing an iPod/iPhone via USB" (□ page 22) • "Playing a USB Device" (□ page 23) • "Listening to vTuner Internet Radio" (□ page 23) • "Registering Other Internet Radio" (□ page 24) • "Playing Music Files on a Server" (□ page 25) • "Remote Playback" (□ page 26) • "Listening to AM/FM Radio" (□ page 27) • "iPod/iPhone Playback via Onkyo Dock" (□ page 53) • "Controlling Other Components" (□ page 55) To adjust the volume, use VOL q/w. select a listening mode and enjoy! See also: • "Using the Listening Modes" (□ page 30) 2 3 4 3 4 En-20 Turning On & Basic Operations Controlling Contents of USB or Network Devices Press USB or NET first. A TOP MENU This button displays the top menu for each media or service.

O MODE You can switch between Standard Mode and Extended Mode during iPod/iPhone playback. p RANDOM This button performs random playback. Q REPEAT Press this button repeatedly to cycle through the repeat modes. Tip • See "Controlling Other Components" about the operation of other components (□ page 55). Note • The buttons you can use will differ depending on the devices and media used for playback.

H i a b c d e f g j k l m n o p q d 7 This button selects the beginning of the current song. Pressing this button twice selects the previous song. 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-21 Turning On & Basic Operations 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 Repeat One Track Repeat Folder (USB Device) Repeat Shuffle Shuffle Album (iPod/iPhone) Playing an iPod/iPhone via USB The on-screen menus appear only on a TV that is connected to the HDMI OUT. 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 nano (2nd, 3rd, 4th, 5th and 6th generation), iPhone 4S, iPhone 4, iPhone 3GS, iPhone 3G, iPhone • You can also use the q/w, 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. □ appears on the AV receiver's display, do not disconnect the USB cable supplied with your iPod/iPhone or the USB device from the USB port. □ If you connect an iPod or iPhone to the USB port, no sound will be output from the headphones jack. 1 Press USB to select the "USB" input. Tip • The same operation can be done by selecting "USB" in the Home menu. Extended Mode Control The content information is displayed (lists are displayed), and you can control the content while looking at the screen. top screen list: Playlists , Artists , Albums , Genres , Songs , Composers , Shuffle Songs , Now Playing.



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2 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. It will flash if the AV receiver cannot read the iPod/iPhone.

Use q/w to select a folder, and then press ENTER to open it. Tip • If you want to operate using the iPod/iPhone or the remote controller, press MODE to switch to Standard mode. □ When you disconnect the iPod/iPhone, the AV receiver remembers the current 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. Standard Mode Control The content information is not displayed, but can be operated using the iPod/iPhone or the remote controller.

3 En-22 Turning On & Basic Operations Playing a USB Device The on-screen menus appear only on a TV that is connected to the HDMI OUT. This section explains how to play music files from a USB device (e. See also: • "Network/USB Features" (□ page 72) Listening to vTuner Internet Radio You need to connect the AV receiver to your home network (□ page 72). The on-screen menus appear only on a TV that is connected to the HDMI OUT. The vTuner Internet Radio Service is a portal site featuring radio stations from all over the world.

You can search for stations by categories such as genre or location. The AV receiver is preinstalled with this service. □ Adding vTuner Internet Radio Stations to Favorites There are two ways you can register specific Internet radio stations (programs) from the vTuner Internet Radio. Adding to My Favorites The selected program will be added to "My Favorites" on the "NET" screen, which appears when pressing NET on the remote controller. 1. Press MENU with the station selected or while a station is playing. Tip • You can rename the stations saved in "My Favorites". 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.

It will flash if the AV receiver cannot read the USB device. To open a folder, use q/w to select it, and then press ENTER. Use q/w to select a music file, and press ENTER or 1 to start playback. 1 Press NET. The "NET" screen appears, and the NET indicator lights. If it flashes, verify that the Ethernet cable is firmly connected to the AV receiver. Tip • The same operation can be done by selecting "Network Service" in the Home menu. 2 3 Use q/w to select "vTuner Internet Radio" and then press ENTER. Use q/w to select a program and then press ENTER. □ appears on the AV receiver's display, do not disconnect the USB cable supplied with your iPod/iPhone or the USB device from the USB port.

Track Artist Album My Music Great Artist My Favorite 0 : 11 / 2 : 00 Adding to vTuner Internet Radio's Favorites Select "vTuner Internet Radio" and press ENTER to display the "Favorites" folder that appears on the same screen as "Stations By Genre", "Stations By Location", etc. This is where your favorite Internet radio bookmarks will be stored. To register your favorite stations using a personal computer, you need to connect your PC to the same network as the AV receiver. Enter the MAC address of your unit on the <http://onkyo>. You can then register your favorite radio programs.

The AV receiver's MAC address is shown on "Network Setup" of the Setup menu (□ page 50). Tip • You can find stations similar to the one being played.

During playback, press MENU on the remote controller, select "Stations like this" and press ENTER. En-23 Turning On & Basic Operations Registering Other Internet Radio You need to connect the AV receiver to your home network (□ page 72). The on-screen menus appear only on a TV that is connected to the HDMI OUT.

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. To listen to other Internet radio stations, you must register your station in "My Favorites" of the "NET" screen, as described below. Note • Services available may vary depending on the region. See the separate instructions for more information. Tip • If you want to delete a station saved in "My Favorites" list, press MENU with the station selected or while the station is playing. Then, use q/w to select "Delete from My Favorites" and press ENTER. You can also delete stations from the Web Setup. □ If you want to rename a station, select the desired station and press MENU. Then, use q/w to select "Rename this station" and press ENTER.

• You can save up to 40 Internet radio stations. 1 2 3 Select "Network Setup" on the Setup menu to verify your IP address (□ page 51). Take a note of the IP address. On your computer, start your web browser. Enter the AV receiver's IP address in the browser's Internet address (URL) field. If you are using Internet Explorer®, you can also enter the URL by selecting "Open." on the "File" menu. Information on the AV receiver is then shown on your Internet browser (Web Setup). Click on the "My Favorites" tab, and enter the Internet radio station's name and URL. click "Save" to save the Internet radio station. The Internet radio station is then added to "My Favorites". To play the registered station, press NET, and then select "My Favorites" on the "NET" screen. a list of registered Internet radio stations appears. Select the one that you saved and press ENTER. 4 5 En-24 Turning On & Basic Operations Playing Music

Files on a Server You need to connect the AV receiver to your home network (□ page 72).

The on-screen menus appear only on a TV that is connected to the HDMI OUT. This section explains how to play music files on a computer or media server through the AV receiver (Server Playback). 5 Use q/w to select an item, and then press ENTER or 1 to start 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. Track Artist Album My favorite song 1 Artist name My favorite album 0 : 11 / 2 : 00 1 2 3 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". a list of the supported devices appears. Select the AV receiver in the list, and then click "Allow". 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.



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Tip • Windows Media Player 11 can be downloaded for free from the Microsoft web site. Tip • The same operation can be done by selecting “Network Service” in the Home menu. □ Depending on the media server, 5/4/3 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. 4 5 3 4 Use q/w to select “DLNA”, and press ENTER. Tip • To go back to the previous screen, press RETURN. Use q/w 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 be able to access the content.

See the instruction manual of the media server. En-25 Turning On & Basic Operations Remote Playback You need to connect the AV receiver to your home network (□ page 72). The on-screen menus appear only on a TV that is connected to the HDMI OUT. 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. 5 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. Tip • On the “Stream” menu, confirm that “Allow remote control of my Player.” is checked. 5 Using Remote Playback 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.

To enable remote playback, you must first configure Windows Media Player 12. Tip • For selecting another media server, select the desired media server from the “Other Libraries” menu on Windows Media Player 12. 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. Refer to step 3 of “Registering Other Internet Radio” for details (□ page 24). 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. Note • Remote playback cannot be used in any of the following cases: – Network services are being used.

□ Contents are being played from a USB device or iPod/iPhone. Tip • The same operation can be done by selecting “Network Service” in the Home menu. □ If the media streaming is already activated, clicking on “More streaming options. □ in the “Stream” menu will display a list of the playback devices connected to the network. You can skip step 3. Wording may vary slightly depending on the network location. On the “Media streaming options”, select the AV receiver and confirm that it is set to “Allow”. select the AV receiver in “Remote playback”. The “Play to” window appears and playback on the AV receiver starts.

Operations during remote playback can be made from the “Play to” window of Windows 7 on your personal computer.

a playback screen will be displayed on the connected TV. En-26 Turning On & Basic Operations Listening to AM/FM Radio This section describes the procedure of using the buttons on the front panel, unless otherwise specified. tuning into Radio Stations □ Auto tuning mode □ Manual tuning mode In manual tuning mode, FM stations will be in mono. 1 2 Press TUNING MODE so that the AUTO indicator lights on the AV receiver’s display. When tuned into a station, the TUNED indicator lights.

When tuned into a stereo FM station, the FM STEREO indicator lights as shown. TUNED AUTO 1 2 Press TUNING MODE so that the AUTO indicator goes off on the AV receiver’s display. press and hold TUNING q/w. The frequency stops changing when you release the button. Press the buttons repeatedly to change the frequency one step at a time.

Using the Tuner With the built-in tuner you can enjoy AM and FM radio stations. You can store your favorite stations as presets for quick selection. You can also change the frequency steps (□ page 48). Band Frequency □ Tuning into stations by frequency You can tune into AM and FM stations directly by entering the appropriate frequency. 1 FM STEREO On the remote controller, press AM or FM to select “AM” or “FM”, followed by D. tUN. (Actual display depends on the country.) 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. (Actual display depends on the country.

) 2 Within 8 seconds, use the number buttons to enter the frequency of the radio station. If you have entered the wrong number, you can retry after 8 seconds. En-27 Turning On & Basic Operations Presetting AM/FM Stations You can store a combination of up to 40 of your favorite AM/FM radio stations as presets. □ Deleting Presets 1 2 Select the preset that you want to delete. see the previous section. While holding down MEMORY, press TUNING MODE. The preset is deleted and its number disappears from the AV receiver’s display. Using RDS (excluding North American and Taiwanese models) 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.

Many FM stations use it these days. In addition to displaying text information, RDS can also help you find radio stations by type (e. 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 AV receiver’s display as described in the next section.

PTY (Program Type) This allows you to search for RDS radio stations by type (□ page 29). TP (Traffic Program) This allows you to search for RDS radio stations that broadcast traffic information (□ page 29). To be continued 1 2 Tune into the AM/FM station that you want to store as a preset. The preset number flashes. (Actual display depends on the country.

) 3 4 While the preset number is flashing (about 8 seconds), use PRESET e/r to select a preset from 1 through 40.



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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. □ **Selecting Presets 1** To select a preset, use **PRESET e/r** 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. En-28 **Turning On & Basic Operations 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.

□ **Listening to Traffic News (TP)** You can search for stations that broadcast traffic news. RDS program types (PTY) Type None News reports Current affairs Information Sport Education Drama Culture Science and technology Varied Pop music Rock music Middle of the road music Light classics Serious classics Other music 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 □ **Displaying Radio Text (RT)** Press **RT/PTY/TP** three times. If the current radio station is broadcasting TP (Traffic Program), “[TP]” will appear on the AV receiver's display. 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. 1 Press **RT/PTY/TP** once. The RT information scrolls across the AV receiver's display. Note • The message “Waiting” may appear while the AV receiver waits for the RT information.

• If the message “No Text Data” appears, no RT information is available. 2 □ **Finding Stations by Type (PTY)** You can search for radio stations by type. 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 AV receiver's display. Use **PRESET e/r** 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.

En-29 **Turning On & Basic Operations Using Basic Functions Using the Listening Modes Selecting Listening Modes** See “About Listening Modes” for detailed information about the listening modes (□ page 31). □ **Listening Mode Buttons (North American and Taiwanese models)** Press **RECEIVER** first. **MOVIE/TV, MUSIC, GAME** (European, Australian and Asian models) **MOVIE/TV** button This button selects the listening modes intended for use with movies and TV. **MUSIC** button This button selects the listening modes intended for use with music. **GAME** button This button selects the listening modes intended for use with video games. **STEREO** button This button selects the Stereo listening mode and All Channel Stereo listening mode. **PURE AUDIO** button and indicator (European, Australian and Asian models) This button selects the Pure Audio listening mode. When this mode is selected, the AV receiver's display and video circuitry are turned off. The indicator lights when this mode is selected. Pressing this button again will select the previous listening mode.

□ **The Dolby Digital and DTS listening modes can only be selected if your Blu-ray Disc/DVD player is connected to the AV receiver with a digital audio connection (coaxial, optical, or HDMI).** □ The listening modes you can select depends on the format of the input signal. To check the format, see “Displaying Source Information” (□ page 36). □ While a pair of headphones is connected, you can select the following listening modes: Pure Audio (European, Australian and Asian models), Mono, Direct, and Stereo. **MUSIC MOVIE/TV GAME STEREO PURE AUDIO MOVIE/TV, MUSIC, GAME** En-30 **Turning On & Basic Operations About Listening Modes** The AV receiver's listening modes can transform your listening room into a movie theater or concert hall, with high fidelity and stunning surround sound. □ **Explanatory Notes a b c Input Source** The following audio formats are supported by the listening modes. Two independent audio signal channels are reproduced through two speakers. This surround system has five main channels of sound and a sixth subwoofer channel (called the point-one channel). further sound enhancement to 5. 1-channel sound with two additional speakers that provide greater sound envelopment and more accurate positioning of sounds.

Speaker Layout The illustration shows which speakers are activated in each channel. See “Sp Config (Speaker Configuration)” for the speaker setup (□ page 44). This is a X *1 The AV receiver outputs this source in 5. 1-channel surround sound. C d a Front speakers b Center speaker c Surround speakers d Subwoofer En-31 **Turning On & Basic Operations** □ **Onkyo-Original DSP Listening Modes Listening Mode Orchestra Or ches t r a Listening Mode Input Source A S D F Speaker Layout C T-D (TheaterDimensional) T-D Description** With this mode you can enjoy a virtual surround sound even with only two or three speakers.

This works by controlling how sounds reach the listener's left and right ears. Good results may not be possible if there's too much reverb, so we recommend that you use this mode in an environment with little or no natural reverb. Description Suitable for classical or operatic music, this mode emphasizes the surround channels in order to widen the stereo image, and simulates the natural reverberation of a large hall. Suitable for acoustic instruments, vocals and jazz, this mode emphasizes the front stereo image, giving the impression of being right in front of the stage. Suitable for rock or pop music, listening to music in this mode creates a lively sound field with a powerful acoustic image, like being at a club or rock concert.

This mode adds realistic acoustics to TV shows produced in a TV studio, surround effects to the entire sound, and clarity to voices. In this mode, the sound has a dramatic feel with a similar atmosphere to Orchestra mode. In this mode, sound localization is distinct with emphasis on bass. In this mode, sound pressure is emphasized to heighten live feel. In this mode, reverberation is increased and sound localization decreased slightly.



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Ideal for background music, this mode fills the entire listening area with stereo sound from the front, and surround. In this mode, all speakers output the same sound in mono, so the sound you hear is the same regardless of where you are within the listening room. Input Source A S D F Speaker Layout ZXC Unplugged Unplugged Studio-Mix Stereo – Mix TV Logic TV Logic Game-RPG Game – RPG Game-Action Game – Action Game-Rock Game – Rock Game-Sports Game – Sports All Ch Stereo All Ch Stereo XC Full Mono Full Mono En-32 Turning On & Basic Operations □ Listening Modes Listening Mode Pure Audio*1*2 Pure Audio Listening Mode Description In this mode, the display and video circuitry are turned off, minimizing possible noise sources for the ultimate in high-fidelity audio reproduction. A/V Sync does not have effect on the analog audio. (As the video circuitry is turned off, only video signals input through HDMI IN can be output from HDMI OUT.

) In this mode, audio from the input source is output without surround-sound processing. The speaker configuration (presence of speakers) and speaker distance settings are enabled, but much of the processing set via the audio setup is disabled. A/V Sync does not have effect on the analog audio. See “Using the Setup Menu (HOME)” for more details (□ page 41). Sound is output from the front left and right speakers and subwoofer. Use this mode when watching an old movie with a mono soundtrack, or use it with the foreign language soundtracks recorded in the left and right channels of some movies. It can also be used with DVDs or other sources containing multiplexed audio, such as karaoke DVDs. This mode is for use with PCM multichannel D sources. F In this mode, audio from the input source is D output without surround-sound processing. The speaker configuration (presence of speakers), crossover frequency, speaker distance, A/V Sync and much of the processing set via the audio setup are D enabled.

See “Using the Setup Menu (HOME)” for more details (□ page 41). F D F XC XC Input Source A S D F Speaker Layout ZXC DTS DTS Description Input Source Speaker Layout XC XC DTS-HD High Resolution Audio D T S – HD HR DTS-HD Master Audio D T S – HD M S T R In this mode, audio from the input source is D output without surround-sound processing. The speaker configuration (presence of speakers), crossover frequency, speaker D distance, A/V Sync and much of the F processing set via the audio setup are enabled. See “Using the Setup Menu (HOME)” for more details (□ page 41). Direct D i r e c t D T S Express DTS Express D XC DTS 96/24 DTS 96 / 24 This mode is for use with DTS 96/24 sources.

This is high-resolution DTS with a 96 kHz sampling rate and 24-bit resolution, providing superior fidelity. Use it with DVDs that bear the DTS 96/24 logo. D XC Stereo Stereo Dolby Pro Logic II PL PL PL Mo v i e Mu s i c Game Mono Mono Multichannel Mu l t i c h DSD*3 DSD Dolby Digital Do l b y D Dolby Digital Plus*4 Do l b y D + XC XC Dolby Pro Logic II expands any 2-channel S source for 5. 1-channel playback. It provides a very natural and seamless surround-sound experience that fully envelops the listener.

As well as music and movies, video games can also benefit from the dramatic spatial effects and vivid imaging. □ Dolby PLII Movie Use this mode with DVDs and videos that bear the Dolby Surround logo or TV shows that feature Dolby Surround. You can also use this mode with stereo movies or TV shows and the AV receiver will create a 5. □ Dolby PLII Game Use this mode when playing game discs. XC Dolby TrueHD Do l b y T r u e HD En-33 Turning On & Basic Operations Listening Mode Neo:6 Neo : 6 Neo : 6 C i n e m a Mu s i c Description Input Source Speaker Layout XC This mode expands any 2-channel source for S up to 5. 1-channel playback. It uses seven full-bandwidth channels of matrix decoding for matrix-encoded material, providing a very natural and seamless surround sound experience that fully envelops the listener. □ Neo:6 Cinema Use this mode with any stereo movie (e. □ Neo:6 Music Use this mode with any stereo music source (e. Note (North American and Taiwanese models) This listening mode is not available.

Pure Audio cannot be selected when Zone 2 is active. Besides, if you activate Zone 2 while Pure Audio is selected, the listening mode will automatically switch to Direct. *3 The AV receiver can input the DSD signal from HDMI IN. Depending on the player, setting the output on the player side to PCM might bring better sound. *4 For the Blu-ray Discs, Dolby Digital is used in a 3. □ The listening modes cannot be selected with some source formats. *2 *1 En-34 Turning On & Basic Operations Using the Home Menu The Home menu provides quick access to frequently used menus. The Home menu appears only on a TV that is connected to the HDMI OUT. If your TV is connected to other video outputs, use the AV receiver's display when changing settings. □ Network Service You need to connect the AV receiver to your home network (□ page 72).

With this selection, you can use various Internet radio services or play the contents stored in media connected to your home network (DLNA) (□ page 23). Note that this selection will be grayed out for a short while after the AV receiver is turned on. If you want to use the Internet radio services, use q/w to select the desired service. Pressing ENTER again switches to that selection. If you want to play music files on a server or to perform remote playback, use q/w to select “DLNA” and then press ENTER.

□ USB With this selection, you can play contents of portable players (iPod, etc.) and USB storage devices connected to the AV receiver's USB port (□ pages 22, 23). Note that this selection will be grayed out for a short while after the AV receiver is turned on. please wait until it becomes operable. Press ENTER to select a drive or browse the contents of the media connected, followed by q/w to select the desired folder or track.

The Home menu will be superimposed on the TV screen. □ InstaPrevue With this selection, you can preview audio/video streams coming from HDMI inputs previously assigned to input selectors (except for HDMI IN 6). Even with multiple components connected through HDMI, you can easily switch between inputs as their previews are displayed on a single screen. Press ENTER to display the main preview (currently selected HDMI input) and the additional previews (other HDMI inputs). Use q/w or e/r to select a preview thumbnail, and pressing ENTER will switch the AV receiver to that input source. Tip • If no video signals are present, the thumbnails will be filled in black. □ You can specify the number of preview thumbnails as well as their positioning on screen (□ page 50). Note • This function cannot be selected when: – HDMI IN 6 is the current HDMI input source, or – No signal is present on the current input source.



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Home Network Service USB InstaPrevue F/W Update Setup 2 Use q/w and ENTER to make the desired selection. press HOME to close the menu.

□ F/W Update With this selection, you can update the firmware of the AV receiver. Note that this selection will be grayed out for a short while after the AV receiver is turned on. □ Setup With this selection, you can access the common settings of the on-screen Setup menu. press ENTER to display the Setup menu (□ page 41). Tip • You can also access frequently used settings from Quick Setup (□ page 39). En-35 Turning On & Basic Operations Using the Sleep Timer

With the sleep timer, you can set the AV receiver to turn off automatically after a specified period. Setting the Display Brightness You can adjust the brightness of the AV receiver's display. Displaying Source Information You can display various information about the current input source as follows. 1 Press RECEIVER once followed by SLEEP repeatedly to select the required sleep time. The sleep time can be set from 90 to 10 minutes in 10 minute steps. The SLEEP indicator lights on the AV receiver's display when the sleep timer has been set. The specified sleep time appears for about 5 seconds, then the previous display reappears. Tip • If you need to cancel the sleep timer, press SLEEP repeatedly until the SLEEP indicator goes off. □ To check the time remaining until the AV receiver sleeps, press SLEEP. Note that if you press again on SLEEP as the time being displayed is 10 minutes or less, the sleep timer will go off.

1 Press RECEIVER once followed by DIMMER repeatedly to switch between: normal, dim, or dimmer brightness. Tip • (North American and Taiwanese models) Alternatively, you can use the AV receiver's DIMMER. 1 Press RECEIVER once followed by DISPLAY repeatedly to cycle through the available information. Tip • Alternatively, you can use the AV receiver's DISPLAY. The following information can be typically displayed.

Input source & volume*1 Listening mode Signal format*2 Sampling frequency*2 *1 *2 When AM or FM radio is used, the band, preset number, and frequency are displayed. If the input signal is digital, the signal format is displayed. Information is displayed for about three seconds, then the previously displayed information reappears. En-36 Turning On & Basic Operations Changing the Input Display When you connect an u-capable Onkyo component, you must configure the input display so that u can work properly. This setting can be done only from the front panel. Using the Music Optimizer The Music Optimizer function enhances the sound quality of compressed music files. Muting the AV Receiver You can temporarily mute the output of the AV receiver. Press and hold down the same button (about 3 seconds) to change the input display. Repeat this step to select the desired input display. Opt indicator lights on the AV receiver's display.

The MUSIC OPTIMIZER indicator lights on the front panel. Tip • Alternatively, you can use the remote controller's Q SETUP. The output is muted and the MUTING indicator flashes on the AV receiver's display. Tip • To unmute, press MUTING again or adjust the volume. • Muting is automatically cancelled when the AV receiver is set to standby. □ □ TV/CD: □ GAME: "TV/CD → DOCK TAPE GAME □ DOCK Note • "DOCK" can be selected for the "TV/CD" or "GAME" input selector, but not at the same time. □ Enter the appropriate remote control code before using the remote controller for the first time (□ page 56). □ En-37 Turning On & Basic Operations Using Headphones 1 Connect a pair of stereo headphones with a standard plug (1/4 inch or 6.3 mm) to the PHONES jack. While the headphones plug is inserted in the PHONES jack, = indicator 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. □ When you connect a pair of headphones, the listening mode is set to Stereo, unless it's already set to Stereo, Mono, Direct, or Pure Audio (European, Australian and Asian models). □ If you connect an iPod or iPhone to the USB port on the AV receiver, no sound will be output from the headphones jack. En-38 Advanced Operations On-screen Setup With the AV receiver connected to a TV, there are two ways of changing the settings on-screen: using the Quick Setup or the Setup Menu (HOME).

□ Quick Setup The Quick Setup provides quick access to frequently used settings. You can change settings and view the current information. □ Setup menu (HOME) The Setup menu (HOME) provides a convenient way to change the AV receiver's various settings. Settings are organized into 11 categories. The on-screen menus appear only on a TV that is connected to the HDMI OUT.

If your TV is connected to other video outputs, use the AV receiver's display when changing settings. This section describes the procedure for using the remote controller unless otherwise specified. note • The on-screen menus are displayed when: – There is no video input, or – The video input is 480p, 576p, 720p, 1080i, or 1080p. Using the Quick Setup Quick Setup Input Audio Information Listening Mode RECEIVER ENTER q/w/e/r Q SETUP □ Input You can select input sources and view information on their assignments. Use q/w to select an input source and view its assignment information. pressing ENTER switches to the selected input source. □ Audio (□ page 40) You can change the following settings: "Bass", "Treble", "Subwoofer Level", "Center Level", "Late Night", "Music Optimizer", and "Cinema Filter". □ Information*1 You can view the information of the following items: "Input" and "Output". □ Listening Mode*2 You can select the listening modes that are grouped in the following categories: "MOVIE/TV", "MUSIC", "GAME". Use q/w to select the category and e/r to select the listening mode.

Press ENTER to switch to the selected listening mode. note *1 *2 1 2 Press RECEIVER followed by Q SETUP. The Quick Setup will be superimposed on the TV screen. Use q/w and ENTER to make the desired selection. press Q SETUP to close the menu. Press RETURN to return to the previous menu. Explanatory Notes a b □ Music Optimizer Off On a Setting target b Setting options (default setting underlined) Depending on the input source and listening mode, not all channels shown here output the sound. □ This setting is not available in either of the following cases: – The "Audio TV Out" setting is set to "On" (□ page 49). □ "HDMI Ctrl (RIHD)" is set to "On" (□ page 49) and you're listening through your TV speakers. En-39 Advanced Operations Using the Audio Settings of Quick Setup You can change various audio settings from the Quick Setup (□ page 39).



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