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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO PR-SC5509. You'll find the answers to all your questions on the ONKYO PR-SC5509 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ONKYO PR-SC5509**  
**User guide ONKYO PR-SC5509**  
**Operating instructions ONKYO PR-SC5509**  
**Instructions for use ONKYO PR-SC5509**  
**Instruction manual ONKYO PR-SC5509**

**ONKYO®**

AV Controller

***PR-SC5509***

Instruction Manual

Thank you for purchasing an Onkyo AV Controller. 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 Controller. Please retain this manual for future reference.

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Made for iPod iPhone HD Radio READY En



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**Manual abstract:**

*REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.* The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. Important Safety Instructions 1. 2. 3. 4. 5. 6. 7.

8. Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions.

Do not use this apparatus near water. Clean only with dry cloth. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Only use attachments/accessories specified by the manufacturer. Use only with the cart, stand, PORTABLE CART WARNING tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to S3125A avoid injury from tip-over. Unplug this apparatus during lightning storms or when unused for long periods of time.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 15. Damage Requiring Service Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions: A. When the power-supply cord or plug is damaged, B. If liquid has been spilled, or objects have fallen into the apparatus, C. If the apparatus has been exposed to rain or water, D. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation, E. If the apparatus has been dropped or damaged in any way, and F.

When the apparatus exhibits a distinct change in performance this indicates a need for service. 16. Object and Liquid Entry Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus. Don't put candles or other burning objects on top of this unit.

17. Batteries Always consider the environmental issues and follow local regulations when disposing of batteries. 18. If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation. Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear.

The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape. 9. 10. 11. 12. 13. 14. En 2 Precautions 1. Recording Copyright—Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder. 2.

AC Fuse—The AC fuse inside the unit is not userserviceable. If you cannot turn on the unit, contact your Onkyo dealer. 3. Care—Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering. 4. Power WARNING BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. AC outlet voltages vary from country to country.

Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz). The power cord plug is used to disconnect this unit from the AC power source. Make sure that the plug is readily operable (easily accessible) at all times. 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. Preventing Hearing Loss Caution Excessive sound pressure from earphones and headphones can cause hearing loss.

Batteries and Heat Exposure Warning Batteries (battery pack or batteries installed) shall not be exposed to excessive heat as sunshine, fire or the like. Never Touch this Unit with Wet Hands—Never handle this unit or its power cord while your hands are wet or damp. If water or any other liquid gets inside this unit, have it checked by your Onkyo dealer. Handling Notes • If you need to transport this unit, use the original packaging to pack it how it was when you originally bought it. • Do not leave rubber or plastic items on this unit for a long time, because they may leave marks on the case. • This unit's top and rear panels may get warm after prolonged use. This is normal. • If you do not use this unit for a long time, it may not work properly the next time you turn it on, so be sure to use it occasionally. For U.S.

models FCC Information for User CAUTION: The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.



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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. 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. 5. 6. Modèle pour les Canadien REMARQUE: CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB003 DU CANADA. Sur les modèles dont la fiche est polarisée: ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

En 7. 8. 3 For British models Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. Supplied Accessories Make sure you have the following accessories: Indoor FM antenna (□ page 24) AM loop antenna (□ page 24) Power cord (□ page 24) Speaker setup microphone (□ page 34) Remote controller (RC-812M) and two batteries (AA/R6) \* IMPORTANT The wires in the mains lead are coloured in accordance with the following code: Blue: Neutral Brown: Live As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

In catalogs and on packaging, the letter at the end of the product name indicates the color. Specifications and operations are the same regardless of color. □ Installing the batteries Note • If the remote controller doesn't work reliably, try replacing the batteries. • Don't mix new and old batteries or different types of batteries. Batteries (AA/R6) • If you intend not to use the remote controller for a long time, remove the batteries to prevent damage from leakage or corrosion. • Remove expired batteries as soon as possible to prevent damage from leakage or corrosion. IMPORTANT The plug is fitted with an appropriate fuse. If the fuse needs to be replaced, the replacement fuse must approved by ASTA or BSI to BS1362 and have the same ampere rating as that indicated on the plug. Check for the ASTA mark or the BSI mark on the body of the fuse. If the power cord's plug is not suitable for your socket outlets, cut it off and fit a suitable plug.

Fit a suitable fuse in the plug. For European Models Declaration of Conformity We, ONKYO EUROPE ELECTRONICS GmbH LIEGNITZERSTRASSE 6, 82194 GROEBENZELL, GERMANY declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN60065, EN55013, EN55020 and EN61000-3-2, -3-3. GROEBENZELL, GERMANY K. MIYAGI □ Aiming the remote controller To use the remote controller, point it at the AV controller's remote control sensor, as shown below. Transmission Remote control sensor AV controller ONKYO EUROPE ELECTRONICS GmbH Approx. 16 ft. (5 m) Reception Transmitter AV controller Input sensor Approx. 16 ft. (5 m) En 4

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95 Using an RIHD-compatible TV, Player, or Recorder.....

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..... 104 To reset the AV controller to its factory defaults, turn it on and, while holding down VCR/DVR, press 8ON/STANDBY (□ page 86). En 5 Features Processing • THX Ultra2 Plus\*1 Certified • Incorporates Qdeo™\*2 technology for HDMI Video Upscaling (to 4K Compatible) • HQV®\*3-Video Processing with 1080p Video upscaling of All Video Sources via HDMI • HDMI (Audio Return Channel, 3D, DeepColor, x.v.Color\*4, Lip Sync, DTS-HD Master Audio\*5, DTS-HD High Resolution Audio, Dolby TrueHD\*6, Dolby Digital Plus, DSD and Multi-CH PCM) • Dolby TrueHD\*6 and DTS-HD Master Audio\*5 • Dolby Pro Logic IIz\*6 and Audyssey DSX™\*7 • DTS Neo:X\*5 • Non-Scaling Configuration • A-Form Listening Mode Memory • Direct Mode • Pure Audio Mode • Music Optimizer\*8 for Compressed Digital Music files • High-Performance 192 kHz/32-Bit D/A Converters • Powerful and Highly Accurate 32-bit Processing DSP • Jitter Cleaning Circuit Technology • DSD Direct for Super Audio CD Connections • Balanced XLR stereo input • Balanced

XLR 9.  
2-channel preouts, with front biamping capability • 8 HDMI\*9 Inputs (1 on front panel) and 2 Outputs • Onkyo p for System Control • 7 Digital Inputs (4 Optical/3 Coaxial) • Component Video Switching (3 Inputs/2 Outputs) • Universal Port for the Dock for iPod®/iPhone®\*10/ HD Radio™\*11 tuner module (North American models)/DAB+ tuner module (European and Asian models) • Analog RGB Video Input (D-sub 15) for PC • Internet Radio Connectivity (SiriusXM Internet Radio/vTuner/Last.fm/Pandora/Rhapsody/Slacker/ Mediafly/Napster/Spotify) \* Services available may vary depending on the region. • 2 Independent Subwoofer Pre Outs • Zone 2 and 3 Preouts • Network Capability for Streaming Audio Files\*12 • 2 USB Inputs\* (Front/Rear) for Memory Devices and iPod®/iPhone®\*10 models (Enables Display of Album Artwork) \* Only front-panel USB input is compatible with iPod/iPhone. Miscellaneous • 40 AM/FM Presets • Dolby Volume\*6 • Audyssey MultiEQ® XT32\*7 to correct room acoustic problems • Audyssey Dynamic EQ®\*7 for loudness correction • Audyssey Dynamic Volume®\*7 to maintain optimal listening level and dynamic range • Crossover Adjustment (40/45/50/55/60/70/80/90/100/110/120/130/150/200 Hz) • A/V Sync Control Function (up to 800 ms) • Auto Standby Function • On-Screen Display via HDMI • Bi-Directional Preprogrammed (with onscreen display setup) RI-Compatible Learning Remote with 4 Activities and Mode-Key LEDs • ISF (Imaging Science Foundation) Video Calibration • VLSC\*13 (Vector Linear Shaping Circuitry) for All Channels En 6 \*1 \*10 THX and the THX logo are trademarks of THX Ltd.



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En 7 Front & Rear Panels Front Panel a b c d e f (North American models) g h i j k l m n o p q r s t u v w (European and Asian models) x y z A En 8 For detailed information, see the pages in parentheses. a 8ON/STANDBY button (25) b Remote control sensor and transmitter (4) c Display (9) d MASTER VOLUME control and indicator (26, 74) e HDMI THRU indicator (67) f PURE AUDIO button and indicator (37) g Input selector buttons and indicators (26) h Front flap Gently push on the lower end of the front panel to open the flap. i PHONES jack (46) j ZONE 2, ZONE 3, and OFF buttons (74) k TONE and Tone Level buttons (70, 75) l MONITOR OUT button (49) m DISPLAY button (45) n TUNING, PRESET (31 to 32), arrow and enter buttons o DIMMER button (North American models) (45) p MEMORY button (32) q TUNING MODE button (31) r LISTENING MODE buttons (37) s WHOLE HOUSE MODE button (45) t SETUP MIC jack (34) u SETUP button (48) v HOME button (44) w RETURN button x USB port (21) y AUX INPUT jacks (19, 21) z %POWER button (European and Asian models) (25) A RT/PTY/TP button (European and Asian models) (33) Display abc d e f g h i j k l h Audio input indicators i Bi AMP indicator (16, 52) j Audyssey indicator (34, 59) Dynamic EQ indicator (59) - (Dolby) Vol indicator (57) Dynamic Vol indicator (60) k Headphone indicator (46) l Message area m MUTING indicator (46) n Volume level (26) o USB indicator (27, 28) p SLEEP indicator (44, 64) m n op For detailed information, see the pages in parentheses. a Speaker/channel indicators b Z2 (Zone 2) indicator (74) c Z3 (Zone 3) indicator (74) d Listening mode and format indicators (37, 71) e 1, 3 and cursor indicators (26) f NET indicator (28, 68) g Tuning indicators RDS indicator (excluding North American models) (32) AUTO indicator (31) TUNED indicator (31) FM STEREO indicator (31) En 9 Rear Panel a bc d e f g h i j k l m n o p q r s t u v w a UNIVERSAL PORT jack b IR IN (A/B) and OUT jacks c DIGITAL IN COAXIAL and OPTICAL jacks d USB port e ETHERNET port f u REMOTE CONTROL jack g RS232 port Terminal for control. h HDMI IN and HDMI output (HDMI OUT MAIN and HDMI OUT SUB) jacks i MONITOR OUT V and S jacks j COMPONENT VIDEO IN and MONITOR OUT jacks k COMPONENT VIDEO ZONE 2 OUT jacks l ZONE 2 OUT V jack m PC IN jack n FM ANTENNA jack and AM ANTENNA terminal o AC INLET p GND screw q INPUT jacks (BALANCE L/R) r 12V TRIGGER OUT (A/B/C) jacks s Composite, S-Video and analog audio jacks (BD/DVD IN, VCR/DVR IN and OUT, CBL/SAT IN, GAME IN, PC IN, TV/CD IN and PHONO IN) t MULTI CH input jacks (FRONT L/R, CENTER, SURROUND L/R, SURR BACK L/R and SUBWOOFER) u PRE OUT jacks (FRONT L/R, CENTER, SURROUND L/R, SURR BACK L/R, FRONT HIGH/WIDE L/R, SW1, SW2) v ZONE 2 and ZONE 3 PRE/LINE OUT jacks w PRE OUT jacks (FRONT L/R, CENTER, SURROUND L/R, SURR BACK L/R, FRONT HIGH/WIDE L/R, SUBWOOFER 1 and SUBWOOFER 2) See "Connecting the AV Controller" for connection (□ pages 12 to 24). En 10 Remote Controller Controlling the AV Controller To control the AV controller, press RECEIVER to select Receiver mode. You can also use the remote controller to control Onkyo Blu-ray Disc/DVD player, CD player, and other components. See "Entering Remote Control Codes" for more details (□ page 81). For detailed information, see the pages in parentheses. a 8RECEIVER button (25) a b c h c \*1 i \*3 j \*3 d b ACTIVITIES buttons (46, 85) c REMOTE MODE/INPUT SELECTOR buttons (26) d Arrow q/w/e/r and ENTER buttons e SETUP button (48) f Listening Mode buttons (37) g DIMMER button (45) h DISPLAY button (45) i MUTING button (46) j VOL q/w button (26) \*2 d a e k l \*3 k RETURN button l HOME button (44, 70) m SLEEP button (44) □ Controlling the tuner To control the AV controller's tuner, press TUNER (or RECEIVER).



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• Push plugs in all the way to make good connections (loose connections can cause noise or malfunctions). • To prevent interference, keep audio and video cables away from power cords and speaker cables. Right! AV Cables and Jacks Signal Video and Audio Video Cable HDMI Component video Jack HDMI Wrong! Description HDMI connections can carry digital video and audio. Component video separates the luminance (Y) and color difference signals (PB, PR), providing the best picture quality (some TV manufacturers label their component video sockets slightly differently). This is a conventional analog interface to connect a PC and a display device (also called D-Sub or D-subminiature). S-Video separates the luminance from color signals and provides better picture quality than composite video.

Yellow OPTICAL Y PB PR Green Blue Red PC IN Analog RGB S-Video S Composite video V Composite video is commonly used on TVs, VCRs, and other video equipment. Optical digital connections allow you to enjoy digital sound such as PCM\*, Dolby Digital or DTS. The audio quality is the same as coaxial.

Coaxial digital connections allow you to enjoy digital sound such as PCM\*, Dolby Digital or DTS. The audio quality is the same as optical.

This cable carries analog audio. Balanced XLR cables are used for better noise immunity and longer cable runs. Audio Optical digital audio Coaxial digital audio Balanced XLR Orange Analog audio (RCA) Multichannel analog audio (RCA) L White Red Analog audio connections (RCA) carry analog audio. R

This cable carries multichannel analog audio and is typically used to connect DVD players with a 7.1-channel analog audio output.

Several standard analog audio cables can be used instead of a multichannel cable. En \* 18 Available sampling rate for PCM input signal (stereo/mono) is 32/44.1/48/88.2/96 kHz. In case of an HDMI connection, 176.4/192 kHz is also available. Note • The AV controller does not support SCART plugs. • The AV controller's optical digital jacks have shutter-type covers that open when an optical plug is inserted and close when it's removed. Push plugs in all the way.

Caution • To prevent shutter damage, hold the optical plug straight when inserting and removing.

Connecting Components with HDMI VCR or DVD recorder/Digital Video Recorder Game console TV, projector, etc. Blu-ray Disc/DVD player Personal computer Satellite/cable set-top box, etc. Camcorder Connect your components to the appropriate jacks. The default input assignments are shown below. □: Assignment can be changed (□ page 50). Jack Input HDMI IN 1 HDMI IN 2 HDMI IN 3 HDMI IN 4 HDMI IN 5 HDMI IN 6 HDMI IN 7 AUX INPUT HDMI Output HDMI OUT MAIN HDMI OUT SUB Components Blu-ray Disc/DVD player VCR or DVD recorder/Digital Video Recorder Satellite/cable set-top box, etc. Game console Personal computer Other components Other components Camcorder TV projector, etc. Assignable □ □ □ □ □ □ See also: •

“Connection Tips and Video Signal Path” (□ page 95) • “Using an RIHD-compatible TV, Player, or Recorder” (□ page 98) • “About HDMI” (□ page 100) □ Audio Return Channel (ARC) function Audio Return Channel (ARC) function enables an HDMI capable TV to send the audio stream to the HDMI OUT MAIN of the AV controller. • This function can be used when: – your TV is ARC capable, and – the TV/CD input selector is selected, and – “HDMI Control(RIHD)” is set to “On” (□ page 67), and – “Audio Return Channel” is set to “Auto” (□ page 68). Tip • To listen to audio received by the HDMI IN jacks through your TV's speakers: – Set the “HDMI Control(RIHD)” setting to “On” (□ page 67) for an p-compatible TV.

– Set the “Audio TV Out” setting to “On” (□ page 67) when the TV is not compatible with p, or the “HDMI Control(RIHD)” setting to “Off”. – Set your Blu-ray Disc/DVD player's HDMI audio output setting to PCM. En 19 Note • When listening to an HDMI component through the AV controller, 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 controller). If the TV power is off or the TV is set to another input source, this may result in no sound from the AV controller or the sound may be cut off. • As the “Audio TV Out” setting is set to “On” (□ page 67) to hear from your TV speakers, the sound will also be output from the AV controller's speakers if you adjust the volume of the AV controller.

Similarly, as the “HDMI Control(RIHD)” setting is set to “On” (□ page 67) to hear from the speakers of an p-compatible TV, the AV controller's speakers will produce sound if you adjust the volume of the AV controller, while the TV speakers will be muted. To stop the AV controller's speakers from producing sound, you can either change the settings on the AV controller or on the TV, or turn down the volume of the AV controller. En 20 Connecting Your Components The on-screen menus appear only on a TV that is connected to the HDMI OUT MAIN. If your TV is connected to other video outputs, use the AV controller's display when changing settings. Front A B C Rear DE F G H I J K L 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 95). □: Assignment can be changed (□ page 51). No. A B C Jack/Port USB\*1 USB, AUX INPUT VIDEO AUX INPUT VIDEO AUDIO L/R DIGITAL D E UNIVERSAL PORT DIGITAL IN COAXIAL 1 (BD/DVD) 2 (VCR/DVR) 3 (CBL/SAT) OPTICAL 1 (GAME) 2 (TV/CD) 3 F G USB\*1 ETHERNET Universal port option dock (UP-A1 etc.) Blu-ray Disc/DVD player VCR or DVD recorder/digital video recorder, RI dock Satellite/cable set-top box, RI dock, etc. Game console TV, CD player Other components MP3 player, USB flash drive Router □ □ □ □ □ Components iPod/iPhone, MP3 player, USB flash drive iPod/iPhone (video playback) Camcorder, etc. Assignable En 21 No. H Jack/Port MONITOR OUT BD/DVD IN VCR/DVR IN CBL/SAT IN GAME IN PC IN TV/CD IN PHONO IN Components TV, projector, etc. Blu-ray Disc/DVD player VCR or DVD recorder/digital video recorder, RI dock Satellite/cable set-top box, etc.

Game console, RI dock Personal computer TV, CD player, cassette tape deck, MD, CD-R, Turntable\*2, RI dock Turntable\*2 IN 1 (BD/DVD) IN 2 (CBL/SAT) IN 3 (GAME) MONITOR OUT Blu-ray Disc/DVD player, RI dock Satellite/cable set-top box, RI dock, etc. Game console TV, projector, etc. Personal computer CD player, etc. DVD player, DVD-Audio, Super Audio CDcapable player, MPEG decoder Assignable I COMPONENT VIDEO □ □ □ J K L PC IN\*3 BALANCE INPUT\*4 MULTI CH (Multichannel input)\*5 □ □ Note \*1 \*2 \*3 \*4 Do not connect the AV controller's USB port to a USB port on your computer.



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Music on your computer cannot be played through the AV controller in this way. Connect a turntable (MM) that has a built-in phono preamp to TV/CD IN, or connect it to PHONO IN with the phono preamp turned off. If your turntable (MM) doesn't have a phono preamp, connect it to PHONO IN. If your turntable has a moving coil (MC) type cartridge, you'll need a commercially available MC head amp or MC transformer to connect to PHONO IN. See your turntable's manual for details. If your turntable has a ground wire, connect it to the AV controller's GND screw.

With some turntables, connecting the ground wire may produce an audible hum. If this happens, disconnect it. When you connect your personal computer to PC IN and select the PC input selector, the video of the personal computer is output from the HDMI outputs. However, if you have assigned the HDMI inputs to the PC input selector, the AV controller will output signals received from the HDMI inputs instead of signals from PC IN, based on the priority order of HDMI > component video > PC IN (analog RGB). To have the signals output from PC IN, select "-" for "PC" in the "HDMI Input" setting (□ page 50).

Before using the balanced input, you must assign it to an input selector. See "Balance" (□ page 52) for details. To select the balanced input, see "Audio Selector" (□ page 63). The AV controller's balanced INPUT jacks are wired as shown. \*5 Before using the multichannel input, you must assign it to an input selector.

See "Multich" (□ page 51) for details. To select the multichannel input, see "Audio Selector" (□ page 63). To adjust the subwoofer sensitivity of the multichannel input, see "Subwoofer Input Sensitivity" (□ page 52). • With connection E, you can enjoy Dolby Digital and DTS. (To record or listen the audio in Zone 2/3 as well, use E and H.) • With connection H, you can listen to and record audio from external components while you are in Zone 2/3. • With connection H, if your Blu-ray Disc/DVD player has both the main stereo and multichannel outputs, be sure to connect to the main stereo. □ How to record a video source With the connections described above, you cannot record the videos through the AV controller. See "Recording" about connections for video recording (□ page 47). En 22 Connecting Onkyo u Components 1 2 3 Make sure that each Onkyo component is connected with an analog audio cable (connection H in the hookup examples) (□ page 21).

Make the u connection (see the illustration). If you're using an RI Dock or cassette tape deck, change the Input Display (□ page 45). With u (Remote Interactive), you can use the following special functions: □ Auto Power On When you start playback on a component connected via u while the AV controller is on Standby, the AV controller 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 controller automatically selects that component as the input source. □ System Off When you turn off the AV controller, the components turn off automatically. □ Remote Control You can use the AV controller's remote controller to control your other u-capable Onkyo components, pointing the remote controller at the AV controller's remote control sensor instead of the component. You must enter the appropriate remote control code first (□ page 82). 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 controller. 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 Off, Auto Power On and Direct Change u functions do not work. R L ANALOG AUDIO OUT e.g., cassette tape deck R L ANALOG AUDIO OUT RI Dock Connecting a Recording Component See "Recording" for details on recording (□ page 47).

Note • The AV controller must be turned on for recording. Recording is not possible while it's in standby mode. • If you want to record directly from your TV or playback VCR to the recording VCR without going through the AV controller, connect the TV/VCR's audio and video outputs directly to the recording VCR's audio and video inputs. See the manuals supplied with your TV and VCR for details. • Video signals connected to composite video inputs can be recorded only via composite video outputs. For example, if your TV/VCR is connected to a composite video input, the recording VCR must be connected to a composite video output. • The surround sound and DSP listening modes cannot be recorded. • Copy-protected Blu-ray Discs and DVDs cannot be recorded. • Sources connected to a digital input cannot be recorded. Only analog inputs can be recorded.

• DTS signals will be recorded as noise, so don't attempt analog recording of DTS CDs or LDs. • While the listening mode is set to Pure Audio, the video circuitry is turned off and therefore no video signals are processed. If you want to make recordings, select another listening mode. L AUDIO IN R VIDEO IN VCR, DVD recorder, cassette tape deck, CDR, MD recorder, etc. En 23 Connecting the Antennas This section explains how to connect the supplied indoor FM antenna and AM loop antenna. The AV controller won't pick up any radio signals without any antenna connected, so you must connect the antenna to use the tuner. North American models European and Asian models Insert the plug fully into the jack. Insert the plug fully into the jack. Push. Insert wire. Release. Caution Assembling the AM loop antenna • Be careful not to injure yourself when using thumbtacks. Thumbtacks, etc. Indoor FM antenna (supplied) AM loop antenna (supplied) Note • Once your AV controller 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 controller, TV, speaker cables, and power cords.

Tip • If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead. • If you cannot achieve good reception with the supplied indoor AM loop antenna, try using it with a commercially available outdoor AM antenna. Connecting the Power Cord 1 Connect the supplied power cord to the AV controller's AC INLET. Note • Before connecting the power cord, connect all of your speakers and AV components. • Turning on the AV controller may cause a momentary power surge that might interfere with other electrical equipment on the same circuit.



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If this is a problem, plug the AV controller into a different branch circuit. • Do not use a power cord other than the one supplied with the AV controller. The supplied power cord is designed exclusively for use with the AV controller and should not be used with any other equipment. • Never disconnect the power cord from the AV controller 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 controller. To AC wall outlet 2 Plug the power cord into an AC wall outlet. En 24 Turning On & Basic Operations Turning On/Off the AV Controller (North American models) 8ON/STANDBY (European and Asian models) 8ON/STANDBY 8RECEIVER RECEIVER %POWER Turning On 1 2 (European and Asian models) Set %POWER to the ON position (^) on the front panel. The AV controller enters standby mode. Press 8ON/STANDBY on the front panel.

or Press RECEIVER followed by 8RECEIVER on the remote controller. The AV controller comes on, the display lights. Turning Off 1 Press 8ON/STANDBY on the front panel. or Press RECEIVER followed by 8RECEIVER on the remote controller. The AV controller will enter standby mode. To prevent any loud surprises when you turn on the AV controller, always turn down the volume before you turn it off. (European and Asian models) To completely shut down the AV controller, set %POWER to the OFF position (@). Tip • For details on power management settings, see “Auto Standby” (□ page 68). En 25 Playback The on-screen menus appear only on a TV that is connected to the HDMI OUT MAIN. If your TV is connected to other video outputs, use the AV controller’s display when changing settings.

This section describes the procedure for using the remote controller unless otherwise specified. Controlling Contents of USB or Network Devices See “Controlling Other Components” about the operation of other components (□ page 80). Press USB or NET first. Selecting the Language for the Onscreen Setup Menus You can determine the language used for the onscreen setup menus. See “Language” in the “OSD Setup” (□ page 65).

h Playing the Connected Component □ Operating with the remote controller i a b c d e f g j k l m n o p q 1 2 Press RECEIVER followed by INPUT SELECTOR. Start playback on the source component. See also: • “Playing an iPod/iPhone via USB” (□ page 27) • “Playing a USB Device” (□ page 28) • “Listening to Internet Radio” (□ page 28) • “Playing Music Files on a Server” (□ page 30) • “Remote Playback” (□ page 30) • “Listening to AM/FM Radio” (□ page 31) • “iPod/iPhone Playback via Onkyo Dock” (□ page 77) • “Controlling Other Components” (□ page 80) To adjust the volume, use VOL q/w. Select a listening mode and enjoy! See also: • “Using the Listening Modes” (□ page 37) • “Sound Program Edit” (□ page 58) • “Audyssey” (□ page 59) 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. 3 4 e/r This button cycles through pages. PLAYLIST e/r In Standard Mode (iPod/iPhone), this button selects playlists. c 1 This button starts playback. d 7 This button selects the beginning of the current song. Pressing this button twice selects the previous song. e 5 This button fast-reverses the current song. f 3 This button pauses playback. g SEARCH You can toggle between the playback screen and the list screen during playback. h DISPLAY This button switches between song informations. i ALBUM +/- In Standard Mode (iPod/iPhone), this button selects albums.

□ Operating on the AV controller 1 2 3 4 En Use the input selector buttons to select the input source. Start playback on the source component. To adjust the volume, use the MASTER VOLUME control. Select a listening mode and enjoy! 26 j MENU This button returns to top menu of the Internet Radio service. k RETURN This button returns to the previous menu. l 6 This button selects the next song. m 4 This button fast-forwards the current song. n 2 This button stops playback. 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. Playing an iPod/iPhone via USB This section explains how to play music/video files on the iPod/iPhone. Compatible iPod/iPhone models Made for: iPod touch (1st, 2nd, 3rd and 4th generation), iPod classic, iPod with video, iPod nano (1st, 2nd, 3rd, 4th, 5th and 6th generation), iPhone 4, iPhone 3GS, iPhone 3G, iPhone 1 2 Press USB repeatedly to select the “USB(Front)” input. Connect the USB cable that comes with the iPod/iPhone to the USB port on the front of the AV controller. While reading the contents of your iPod/iPhone, the message “Connecting..” appears on the display. The USB indicator lights. It will flash if the AV controller cannot read the iPod/iPhone.

Press MODE repeatedly to switch to Extended Mode (Music) or Extended Mode (Video). A list of your iPod/iPhone model’s contents appears. To open a folder, use q/w to select it, and then press ENTER. Tip • With the default settings, the iPod/iPhone is operated in Standard Mode. • Pressing MODE repeatedly switches back to Standard Mode. • When you disconnect the iPod/iPhone, the AV controller stores the mode. This means that if you disconnect when in Extended Mode (Music), the AV controller will start in Extended Mode (Music) the next time you connect the iPod/iPhone. • You can also use 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.

3 Note • The buttons you can use will differ depending on the devices and media used for playback. Understanding Icons on the Display This section describes icons that appear on the display during media playback. Displayed Icons Icon Description Folder Track Playback Pause Fast Forward Fast Reverse Artist Album Repeat One Track Repeat Folder (USB Device) Repeat Shuffle Shuffle Album (iPod/iPhone) 4 Use q/w to select a music/video file, and press ENTER or 1 to start playback. Note • Do not disconnect the USB device or USB cable that comes with iPod/iPhone from the USB port at the front of the AV controller, while the message “Connecting...” appears on the display. • If you connect an iPod or iPhone to the USB port on this device, no sound will be output from the headphones jack. En 27 Extended Mode (Music) control The music content information is displayed (lists are displayed), and you can control the music content while looking at the screen.



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Top screen list: Playlists, Artists, Albums, Genres, Songs, Composers, Shuffle Songs, Now Playing.

*Listening to Internet Radio* You need to connect the AV controller to your home network (□ page 101). You can select Internet radio stations by connecting to the AV controller from your computer and selecting stations in your web browser. Internet radio URLs in the following formats are supported: PLS, M3U, and podcast (RSS). However, depending on the type of data or audio format used by the Internet radio station, you may not be able to listen to some stations.

Note • Services available may vary depending on the region.

See the separate instructions for more information. Extended Mode (Video) control The video content information is displayed (lists are displayed), and you can control the video content while looking at the screen. Top screen list: Movies, Music Videos, TV Shows, Video Podcasts, Rentals. Note • To view the video contents of your iPod/iPhone, connect it to the USB port and AUX INPUT VIDEO jack on the AV controller's front panel, using the official Apple Composite AV Cable. • Depending on your iPod/iPhone model and generation, the displayed items may vary and the support for Extended Mode (Video) is not

guaranteed.

*Listening to vTuner Internet Radio* This unit includes the full vTuner Internet Radio Service at no additional charge. Once you have connected your unit to the Internet you can select vTuner Internet Radio to search for and play Internet radio stations and podcasts at any time. To enhance your Internet radio experience, the <http://onkyo.vtuner.com/portal> is available to you as an easy way to browse to find stations, set up/organize your favorites, add your own stations, get help, etc. After the first time you try vTuner Internet Radio on your unit you can use the MAC Address of your unit to create a member login account (email address and password) on the <http://onkyo.vtuner.com/portal>. To verify your MAC Address, please see "Network" (□ page 68). Standard Mode control The content information is not displayed, but can be operated using the iPod/iPhone or the remote controller (USB).

Note • The following iPod models are not supported in Standard Mode. (They can only be controlled in Extended Mode). – iPod with video – iPod nano (1st generation) 1 2 *Playing a USB Device* This section explains how to play music files from a USB device (e.g., USB flash drives and MP3 players). See also: • "Network/USB Features" (□ page 101). 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 controller. Use q/w/e/r to select "vTuner Internet Radio" and then press ENTER.

1 2 3 4 Press USB repeatedly to select the "USB(Front)" or "USB(Rear)" input. Plug your USB device into the AV controller's USB port. The USB indicator lights. It will flash if the AV controller cannot read the USB device. Press ENTER.

A list of the device's contents appears. 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. Note • Do not disconnect the USB device or USB cable that comes with iPod/iPhone from the USB port at the front of the AV controller, while the message "Connecting.."

appears on the display. En 28 3 Use q/w to select a program and then press ENTER. Playback starts. Registering My Favorites\*1 You can add the currently playing song or station to the "My Favorites". You can save up to 40 Internet radio stations. Once you've added a station to the list, simply select it in the "My Favorites" menu, and then press ENTER to start playback. \*1 From the search results you can save the stations and songs but cannot listen to them directly. My Music 0 : 11 Great Artist My Favorite Press MENU to enable selection from the following menu items. Stations like this: Stations like the one currently being played back are displayed.

*Add to My Favorites:* Adds a station to My Favorites list. Press TOP MENU to go to the top menu of the Internet Radio services. Tip • By pressing SEARCH, you can toggle between the playback screen and the radio list screen. □ Top menu of Internet Radio Create new station: Add a favorite station or Internet radio to the My Favorites. Rename this station: You can rename the stations and songs saved in "My Favorites" list. Delete from My Favorites: You can delete the stations and songs saved in "My Favorites" list. 1 2 3 Press MENU with the station selected or while a song is playing. Use q/w to select "Add to My Favorites", and press ENTER. Use q/w/e/r to select "OK", and then press ENTER. Tip • If you choose to rename the station, see "Name Edit" (□ page 60).

*Listening to Other Internet Radio* To listen to other internet radio stations, insert the following step after step 1 in the "Listening to vTuner Internet Radio" section. 1 On your computer, start your web browser and enter the AV controller's IP address in the browser's Internet address (URL) field. The browser connects to the AV controller (WEB Setup Menu). Note • The AV controller's IP address is shown on "IP Address" (□ page 68). • If you're using DHCP, your router may not always allocate the same IP address to the AV controller, so if you find that you can't connect to the AV controller, recheck the AV controller's IP address on the "Network" screen.

2 3 4 5 Click on the "My Favorites" tab. Enter the preset name and Internet address (URL). Click "Save" to save the Internet radio station. The Internet radio station is then added to "My Favorites". En 29 *Playing Music Files on a Server* You need to connect the AV controller to your home network (□ page 101). This section explains how to play music files on a computer or media server through the AV controller (Server Playback). Windows Media Player 11 Setup This section explains how to configure Windows Media Player 11 so that the AV controller can play the music files stored on your computer. 1 2 3 4 5 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". Select the AV controller in the list, and then click "Allow". Click "OK" to close the dialog box. This completes the Windows Media Player 11 configuration. You can now play the music files in your Windows Media Player 11 library through the AV controller.

Tip • Windows Media Player 11 can be downloaded for free from the Microsoft web site. 1 2 3 4 Start your computer or media server. Press NET. The "NET" screen appears.



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The NET indicator lights. If it flashes, confirm the network connection. Use q/w/e/r 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 controller. • Depending on the sharing settings in the media server, the AV controller may not be able to access the content. See the instruction manual of the media server. Remote Playback You need to connect the AV controller to your home network (□ page 101).

Remote Playback means you can play the music files stored on a media server or personal computer with the AV controller by operating the controller device in the home network. 5 Use q/w to select an item, and then press ENTER or 1 to start playback. Windows Media Player 12 Setup My favorite song 1 0 : 11 Artist name My favorite album This section explains how to configure Windows Media Player 12 so that the AV controller can play the music files stored on your personal computer. Note • 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 controller connections. 1 2 3 4 5 Start Windows Media Player 12. On the "Stream" menu, select "Turn on media streaming". A dialog box appears. Move your cursor and click on "Turn on media streaming". A list of media server appears. Wording may vary slightly depending on the network location. Select the product in the list, and then click "Allowed". Click "OK" to close the dialog box.

This completes the Windows Media Player 12 configuration. You can now play the music files in your Windows Media Player 12 library. En 30 Using Remote Playback Listening to AM/FM Radio This section describes the procedure using the buttons on the front panel unless otherwise specified. 1 2 3 Start Windows Media Player 12. To enable remote playback, you must first configure Windows Media Player 12. Press NET. The "NET" screen appears. The NET indicator lights. If it flashes, verify the network connection. Use q/w/e/r to select "dlna", and press ENTER.

A list of media server appears. Note • Remote playback cannot be used while the music files of another media server are being played. You must stop their playback first. 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 66). 1 4 On Windows Media Player 12, right-click on a music file. The right-click menu appears. For selecting another media server, select the desired media server from the "Other Libraries" menu on Windows Media Player 12. Select the AV controller from the right-click menu.

The "Play to" window appears and playback on the product starts. Operations during remote playback can be made from the "Play to" window of Windows 7 on your personal computer. During remote playback, operations (such as Playback, Pause, Fast Forward, Fast Rewind, Previous, Next, Repeat, Random) cannot be made. Press TUNER to select either "AM" or "FM". In this example, FM has been selected. Each time you press TUNER, the radio band changes between AM and FM. Band Frequency (Actual display depends on the country.) 5 Tuning into Radio Stations □ Auto tuning mode 1 2 Press TUNING MODE so that the AUTO indicator lights on the display. Press TUNING q/w. Searching stops when a station is found.

When tuned into a station, the TUNED indicator lights. When tuned into a stereo FM station, the FM STEREO indicator lights on the display, as shown.

TUNED AUTO FM STEREO Tip • Tuning into weak FM stereo stations If the signal from a stereo FM station is weak, it may be impossible to get good reception. In this case, switch to manual tuning mode and listen to the station in mono. □ Manual tuning mode In manual tuning mode, FM stations will be in mono. 1 2 Press TUNING MODE so that the AUTO indicator goes off on the 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. En 31 □ Tuning into stations by frequency You can tune into AM and FM stations directly by entering the appropriate frequency.

□ Deleting Presets 1 2 Select the preset that you want to delete. See the previous section. While holding down MEMORY, press TUNING MODE. The preset is deleted and its number disappears from the display. 1 On the remote controller, press TUNER repeatedly to select "AM" or "FM", followed by D-TUN. (Actual display depends on the country.) 2 Within 8 seconds, use the number buttons to enter the frequency of the radio station. For example, to tune to 87.5 (FM), press 8, 7, 5.

If you have entered the wrong number, you can retry after 8 seconds. Using RDS (excluding North American models) RDS works only in areas where RDS broadcasts are available. When tuned into an RDS station, the RDS indicator lights. When the station is broadcasting text information, the text can be displayed. □ What is RDS? RDS stands for Radio Data System and is a method of transmitting data in FM radio signals. It was developed by the European Broadcasting Union (EBU) and is available in most European countries. Many FM stations use it these days. In addition to displaying text information, RDS can also help you find radio stations by type (e.g., news, sport, rock, etc.

). The AV controller supports four types of RDS information: PS (Program Service) When tuned to an RDS station that's broadcasting PS information, the station's name will be displayed. Pressing DISPLAY will display the frequency for 3 seconds. RT (Radio Text) When tuned to an RDS station that's broadcasting text information, the text will be shown on the display as described in the next section. PTY (Program Type) This allows you to search for RDS radio stations by type (□ page 33). TP (Traffic Program) This allows you to search for RDS radio stations that broadcast traffic information (□ page 33).

Note • In some cases, the text characters displayed on the AV controller 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.

Presetting AM/FM Stations You can store a combination of up to 40 of your favorite AM/FM radio stations as presets. 1 2 Tune into the AM/FM station that you want to store as a preset.



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