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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO TX-SR313. You'll find the answers to all your questions on the ONKYO TX-SR313 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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ONKYO

AV RECEIVER

TX-SR313

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. 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. 13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 15. Damage Requiring Service Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions: A.

When the power-supply cord or plug is damaged, B. If liquid has been spilled, or objects have fallen into the apparatus, C. If the apparatus has been exposed to rain or water, D. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation, E.

If the apparatus has been dropped or damaged in any way, and F. When the apparatus exhibits a distinct change in performance this indicates a need for service. 16. Object and Liquid Entry Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus. Don't put candles or other burning objects on top of this unit. 17. Batteries Always consider the environmental issues and follow local regulations when disposing of batteries. 18. If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.

Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape. The temperature protection operates if the apparatus attain an abnormal high temperature. The apparatus cannot operate until it has cooled down. WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. 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.

Important Safety Instructions 1. 2. 3. 4. 5.

6. 7. 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. 8. 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. 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. 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. 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.



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..... 50 Remote Control Codes for Onkyo Components Connected via u .

.... 50 Resetting the REMOTE MODE Buttons .

..... 51 Resetting the Remote Controller ..

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. 52 En-6 Safety Information and Introduction Features Amplifier • 65 Watts/Channel @ 8 ohms (FTC) • 100 Watts/Channel @ 6 ohms (IEC) • 120 Watts/Channel @ 6 ohms (JEITA) • Optimum Gain Volume Circuitry • H.C.P.S.

(High Current Power Supply) Massive High Power Transformer Connections • 4 HDMI Inputs and 1 Output • Onkyo p for System Control • 3 Digital Inputs (2 Optical/1 Coaxial) • Component Video Switching (2 Inputs/1 Output) • Front-Panel USB Input for Memory Devices and iPod®/iPhone® models 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 Processing • HDMI (Audio Return Channel, 3D, DeepColor, x.v.Color, Lip Sync, DTS-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD, Dolby Digital Plus, DSD and Multi-CH PCM) • Non-Scaling Configuration • A-Form Listening Mode Memory • Direct Mode • Music Optimizer for Compressed Digital Music files • 192 kHz/24-bit D/A Converters • Powerful and Highly Accurate 32-bit Processing DSP • Jitter Cleaning Circuit Technology 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 n u o p q r j DISPLAY button (34) k SETUP button (37) s t t USB port (17) u RT/PTY/TP button (European, Australian and Asian models) (26) For detailed information, see the pages in parentheses.



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a 8ON/STANDBY button (20) b HDMI THRU indicator (45) c SPEAKERS A and B buttons (33) d Remote control sensor (5) e LISTENING MODE buttons (28) f Display (9) g DIMMER button (North American and Taiwanese models) (34) h MEMORY button (26) i TUNING MODE button (25) l TUNING q/w, PRESET e/r (25), cursor and ENTER buttons m RETURN button n MASTER VOLUME control (21) o MUSIC OPTIMIZER button (35, 47) p PHONES jack (36) q TONE and Tone Level buttons (46) r Input selector buttons (21) s AUX INPUT AUDIO and VIDEO jacks (17) En-8 Safety Information and

Introduction Display a b f c d e g h For detailed information, see the pages in parentheses. a A and B speaker indicators (33) b M.

Opt indicator (35, 47) c Listening mode and format indicators (28, 44) d Tuning indicators RDS indicator (excluding North American and Taiwanese models) (26) AUTO indicator (25) TUNED indicator (25) FM STEREO indicator (25) e SLEEP indicator (34) f HDMI indicator (45, 59) g MUTING indicator (35) h

Message area En-9 Safety Information and Introduction Rear Panel (North American, European, Australian and Asian models) (Taiwanese models) a b c d e

f g h i j a DIGITAL IN COAXIAL and OPTICAL jacks b COMPONENT VIDEO IN and OUT jacks c HDMI IN and OUT jacks d FM ANTENNA jack and AM ANTENNA terminal e SUBWOOFER PRE OUT jack f SPEAKERS terminals (FRONT A, CENTER, SURROUND, FRONT B) g Power cord (North American, European, Australian and Asian models) h u REMOTE CONTROL jack i Composite video and analog audio jacks (BD/DVD IN, VCR/DVR IN and OUT, CBL/SAT IN, GAME IN, TV/CD IN) j MONITOR OUT V jack k AC INLET (Taiwanese models) See "Connecting the AV Receiver" for connection (□

pages 12 to 19). En-10 Safety Information and Introduction Remote Controller Controlling the AV Receiver a b ic To control the AV receiver, press RECEIVER to select Receiver mode. You can also use the remote controller to control Onkyo Blu-ray Disc/DVD player, CD player, and other components.

See "Entering Remote Control Codes" for more details (□ page 50). For detailed information, see the pages in parentheses. a 8 button (20) □ Controlling the tuner To control the AV receiver's tuner, press AM or FM (or RECEIVER). a q/w buttons (25) b D.TUN button (25) c DISPLAY button d CH +/- button (26) e

Number buttons (25) j c d ae f k d b REMOTE MODE/INPUT SELECTOR buttons (21) c TONE and Tone Level buttons (46) d SP A/B button (33) e q/w/e/r and ENTER buttons f SETUP button (37) g Listening Mode buttons (28) l m h DIMMER button (34) i DISPLAY button (34) j MUTING button (35) k VOL q/w

button (21) l RETURN button g e bh n m HOME button (33) n SLEEP button (34) En-11 Connections Connecting the AV Receiver Connecting Your Speakers Connecting the Speaker Cables The following illustration shows how to connect the speakers to each pair of terminals. □ Push-type speaker terminals Strip

3/8" to 1/2" (10 to 12 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. 3/8" to 1/2" (10 to 12 mm) Surround

right Surround left Front B right Front B left Front A right Center Front A left Speakers B Speakers A En-12 Connections Speaker Configuration The

following table indicates the channels you should use depending on the number of speakers that you have.

No matter how many speakers you use, a powered subwoofer is recommended for a really powerful and solid bass. To get the best from your surround sound system, you need to set the speaker settings manually (□ page 40). Number of speakers Front speakers Center speaker Surround speakers 2 □ 3 □ □ □ 4 □ 5

□ □ □ Attaching the Speaker Cable Labels The speaker terminals are color-coded for identification purpose. Speaker Front left Front right Center Surround left Surround right Color White Red Green Blue Gray The supplied speaker cable labels are also color-coded and you should attach them to the positive (+)

side of each speaker cable in accordance with the table above. Then all you need to do is to match the color of each label to the corresponding speaker

terminal. En-13 Connections Speaker Connection Precautions Read the following before connecting your speakers: • You can connect speakers with an impedance of between 6 and 16 ohms. If you use speakers with a lower impedance, and use the amplifier at high volume levels for a long period of time, the built-in amp protection circuit may be activated. • Disconnect the power cord from the wall outlet before making any connections. • Read the instructions

supplied with your speakers. • Pay close attention to speaker wiring polarity.

In other words, connect positive (+) terminals only to positive (+) terminals, and negative (-) terminals only to negative (-) terminals. If you get them the wrong way around, the sound will be out of phase and will sound unnatural. • Unnecessarily long, or very thin speaker cables may affect the sound quality and should be avoided. • Be careful not to short the positive and negative wires. Doing so may damage the AV receiver.

• Make sure the metal core of the wire does not have contact with the AV receiver's rear panel. Doing so may damage the AV receiver. • 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. En-14 Connections About AV Connections Connecting AV components a AV Cables and Jacks □ HDMI HDMI connections can carry

digital video and audio. □ Optical digital audio Optical digital connections allow you to enjoy digital sound such as PCM*1, Dolby Digital or DTS. The audio quality is the same as coaxial. HDMI cable TV, projector, etc. : Video & Audio 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). Y □ 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 Green Blue Red Blu-ray Disc/ DVD player Game console PB PR □ Analog audio (RCA) Analog audio connections (RCA) carry analog audio.

White Red *1 Other cables TV, projector, etc. : Video : Audio AV receiver □ Composite video Composite video is commonly used on TVs, VCRs, and other video equipment.



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Yellow 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 Blu-ray Disc/DVD player • The AV receiver does not support SCART plugs. • The AV receiver's optical digital jacks have shutter-type covers that open when an optical plug is inserted and close when it's removed. Push plugs in all the way.

Caution Game console • Before making any AV connections, read the manuals supplied with your AV components. • Don't connect the power cord until you've completed and double-checked all AV connections. • Push plugs in all the way to make 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. • To prevent shutter damage, hold the optical plug straight when inserting and removing.

En-15 Connections Connecting Components with HDMI VCR or DVD recorder/digital video recorder Game console TV, projector, etc. Satellite/cable set-top box, etc. • Blu-ray Disc/DVD player • 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 59) • "Using an RIHD-compatible TV, Player, or Recorder" (□ page 60) • "About HDMI" (□ page 62) Tip • To listen to the audio of a component connected via HDMI through your TV's speakers, enable "HDMI Through" (□ page 45) 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 45), and – "Audio Return Ch (ARC)" is set to "Auto" (□ page 46). Connect your components to the appropriate jacks. The default input assignments are shown below. □: Assignment can be changed (□ page 39). Jack HDMI IN1 HDMI IN2 HDMI IN3 HDMI IN4 HDMI OUT Components Blu-ray Disc/DVD player Satellite/cable set-top box, etc. Game console TV, projector, etc. □ □ □ VCR or DVD recorder/digital video recorder □ En-16 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 (□ pages 39, 40). 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 console TV, CD player Blu-ray Disc/DVD player Blu-ray Disc/DVD player, RI dock Satellite/cable set-top box, RI dock, etc. TV, projector, etc. TV, projector, etc. Blu-ray Disc/DVD player VCR, DVD recorder/ digital video recorder, RI dock Satellite/cable set-top box, etc. Game console, RI dock TV, CD player, cassette tape deck, MD, CD-R, Turntable*3, RI dock □ □ □ □ □ 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. D E F E COAXIAL (BD/DVD) COMPONENT VIDEO IN 1 (BD/DVD) IN 2 (CBL/SAT) OUT F MONITOR OUT BD/DVD IN VCR/DVR IN • With connection D, you can enjoy Dolby Digital and DTS. • With connection F, 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 receiver. See "Recording" about connections for video recording (□ page 36).

CBL/SAT IN 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 59). GAME IN TV/CD IN En-17 Connections Connecting Onkyo u Components Connecting a Recording Component See "Recording" for details on recording (□ page 36). 1 2 3 Make sure that each Onkyo component is connected with an analog audio cable (connection F in the hookup examples) (□ page 17). Make the u connection (see the illustration). If you're using an RI Dock or cassette tape deck, change the Input Display (□ page 35). R L ANALOG AUDIO OUT 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 50). Note L AUDIO IN R VIDEO IN e.g., cassette tape deck R L ANALOG AUDIO OUT RI Dock VCR, DVD recorder, cassette tape deck, CDR, MD recorder, etc. Note • The AV receiver must be turned on for recording. Recording is not possible while it's in standby mode. • If you want to record directly from your TV or playback VCR to the recording VCR without going through the AV receiver, connect the TV/VCR's audio and video outputs directly to the recording VCR's audio and video inputs.



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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.

• 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 other Onkyo components. En-18 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. To AC wall outlet Push. Insert wire. Release.

Insert the plug fully into the jack. Insert the plug fully into the jack. 2 Assembling the AM loop antenna Caution Plug the power cord into an AC wall outlet. Note • Before connecting the power cord, connect all of your speakers and AV components. • Turning on the AV receiver may cause a momentary power surge that might interfere with other electrical equipment on 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. • Be careful not to injure yourself when using thumbtacks. Thumbtacks, etc. AM loop antenna (supplied) Indoor FM antenna (supplied) Note • Once your AV receiver is ready for use, you'll need to tune into a radio station and position the antenna to achieve the best possible reception. • Keep the AM loop antenna as far away as possible from your AV receiver, TV, speaker cables, and power cords.

Tip • If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead. • If you cannot achieve good reception with the supplied indoor AM loop antenna, try using it with a commercially available outdoor AM antenna. En-19 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 8 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 8 on the remote controller. The AV receiver will enter standby mode. To prevent any loud surprises when you turn on the AV receiver, always turn down the volume before you turn it off. Tip • For details on power management settings, see "Auto Standby" (□ page 44). 8 RECEIVER En-20 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. Select a listening mode and enjoy! 1 2 Press RECEIVER followed by an INPUT SELECTOR button. Start playback on the source component. See also: • "Playing an iPod/iPhone via USB" (□ page 23) • "Playing a USB Device" (□ page 24) • "Listening to AM/FM Radio" (□ page 25) • "iPod/iPhone Playback via Onkyo Dock" (□ page 48) • "Controlling Other Onkyo Components" (□ page 50) To adjust the volume, use VOL q/w. Select a listening mode and enjoy! See also: • "Using the Listening Modes" (□ page 28) 2 3 4 3 4 En-21 Turning On & Basic Operations Controlling Contents of USB Devices a TOP MENU This button displays the top menu for each media or service. b q/w and ENTER These buttons navigate through the menus. o RANDOM This button performs random playback. p REPEAT Press this button repeatedly to cycle through the repeat modes. Tip • See "Controlling Other Onkyo Components" about the operation of other components (□ page 50). Note • The buttons you can use will differ depending on the devices and media used for playback.

h e/r This button cycles through pages. PLAYLIST e/r Press USB first. In Standard Mode (iPod/iPhone), this button selects playlists. i a b c d e f g j k l m n o p 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 information. i CH +/- In Standard Mode (iPod/iPhone), this button selects albums. j RETURN This button returns to the previous menu. k 6 This button selects the next song. l 4 This button fast-forwards the current song. m 2 This button stops playback. n MODE You can switch between Extended Mode and Standard Mode during iPod/iPhone playback. En-22 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.



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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 4 Use q/w to select a music file, and press ENTER or 1 to start playback.

Note • While the message “Connecting...” 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. 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. 1 2 Press USB to select the “USB” input. Connect the USB cable that comes with the iPod/iPhone to the USB port on the front of the AV receiver. While reading the contents of your iPod/iPhone, the message “Connecting.

...” appears on the AV receiver’s display. A list of your iPod/iPhone model’s contents appears (Extended Mode). 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. • 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. Standard Mode Control The content information is not displayed, but can be operated using the iPod/iPhone or the remote controller. 3 En-23 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.g., USB flash drives and MP3 players). See also: • “USB Features” (□ page 63) 1 2 Press USB to select the “USB” input. Plug your USB device into the AV receiver’s USB port. While reading the contents of your USB device, the message “Connecting.

...” appears on the AV receiver’s display. 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. 3 4 Note • While the message “Connecting...” 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.

En-24 Turning On & Basic Operations Listening to AM/FM Radio This section describes the procedure 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. 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 as shown. FM STEREO 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 44). 1 Press AM or FM to select either “AM” or “FM”. In this example, FM has been selected. Band Frequency □ Tuning into stations by frequency You can tune into AM and FM stations directly by entering the appropriate frequency. 1 AUTO TUNED 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. 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. En-25 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. □ Selecting Presets 1 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. □ What is RDS? RDS stands for Radio Data System and is a method of transmitting data in FM radio signals. It was developed by the European Broadcasting Union (EBU) and is available in most European countries. Many FM stations use it these days. In addition to displaying text information, RDS can also help you find radio stations by type (e.g., news, sport, rock, etc.). The AV receiver supports four types of RDS information: PS (Program Service) When tuned to an RDS station that’s broadcasting PS information, the station’s name will be displayed. Pressing DISPLAY will display the frequency for 3 seconds.

RT (Radio Text) When tuned to an RDS station that’s broadcasting text information, the text will be shown on the 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 27). TP (Traffic Program) This allows you to search for RDS radio stations that broadcast traffic information (□ page 27). To be continued 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. 1 2 Tune into the AM/FM station that you want to store as a preset. See the previous section. Press MEMORY. The preset number flashes. □ Deleting Presets 1 (Actual display depends on the country.

) 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. 2 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. En-26 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 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 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. 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-27 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 29). □ Listening Mode Buttons Press RECEIVER first. 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. • 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 34). • While a pair of headphones is connected, you can select the following listening modes: Direct, Stereo, and Mono. • While Speakers A and B are on, you can select only the Direct, Stereo, Mono, or T-D (Theater-Dimensional) listening mode. MOVIE/TV, MUSIC, GAME MUSIC MOVIE/TV GAME STEREO En-28 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 Input Source The following audio formats are supported by the listening mode. A S This is mono (monophonic) sound. This is stereo (stereophonic) sound. Two independent audio signal channels are reproduced through two speakers. This is 5.1-channel surround sound.

This surround system has five main channels of sound and a sixth subwoofer channel (called the point-one channel). Speaker Layout The illustration shows which speakers are activated in each channel. See "Sp Config (Speaker Configuration)" for the speaker setup (□ page 40). Z D F*1 This is 7.1-channel surround sound. This is a further sound enhancement to 5.1-channel sound with two additional speakers that provide greater sound envelopment and more accurate positioning of sounds. *1 X 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 C En-29 Turning On & Basic Operations □ Onkyo-Original DSP Listening Modes Listening Mode Orchestra*1 Or ches t r a Listening Mode Input Source A S D F Speaker Layout C T-D (TheaterDimensional)*1 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.

Ideal for background music, this mode fills the entire listening area with stereo sound from the front and surround speakers. 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*1 Unplugged Studio-Mix*1 Studio-Mix TV Logic*1 TV Logic Game-RPG*1 Game-RPG Game-Action*1 Game-Action Game-Rock*1 Game-Rock Game-Sports*1 Game-Sports All Ch Stereo All Ch Stereo XC Full Mono Full Mono En-30 Turning On & Basic Operations □ Listening Modes Listening Mode Direct Direct Listening Mode Description In this mode, audio from the input source is output without surround-sound processing.



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The speaker configuration (presence of speakers) and speaker distance settings are enabled, but much of the processing set via Home menu is disabled. A/V Sync does not have effect on the analog audio.

See "Onscreen Setup" for more details (□ page 37). 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 XC Input Source A S D F Speaker Layout ZXC DSD*2 DSD Description Input Source Speaker Layout XC Dolby Digital Do l b y D Dolby Digital Plus*3 Do l b y D + 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 Home menu are enabled. D See "On-screen Setup" for more details (□ page 37). F XC Dolby TrueHD Do l b y T r u e HD Stereo S t e r e o D T S D T S D D F X C X C Mono Mo n o D T S - H D High Resolution Audio D T S - H D H R D T S - H D Master Audio D T S - H D M S T R Multichannel Mu l t i c h D T S Express D T S Exp r e s s D 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 X C X C D T S 96 / 24 D T S 96 / 24 En-31 Turning On & Basic Operations Listening Mode Dolby Pro Logic II Description Dolby Pro Logic II expands any 2-channel 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 S 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 5.1 surround mix from the 2-channel stereo. • Dolby PLII Music Use this mode to add 5.1 surround to stereo sources such as music CDs and DVDs. • Dolby PLII Game Use this mode when playing game discs. This mode expands any 2-channel source for 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. C i n e m a M u s i c Input Source Speaker Layout Note These listening modes cannot be selected during USB or iPod playback.

The AV receiver can input the DSD signal from HDMI IN. Setting the output setting on the player side to PCM might obtain a better sound according to the player. In that case, set the output setting on the player side to PCM. *3 For the Blu-ray Discs, Dolby Digital is used. • The listening modes cannot be selected with some source formats.

*2 *1 P L P L P L M o v i e M u s i c Game XC Neo:6 Ne o : 6 Ne o : 6 • Neo:6 Cinema S Use this mode with any stereo movie (e.g., TV, DVD, VHS). • Neo:6 Music Use this mode with any stereo music source (e.g., CD, radio, cassette, TV, VHS, DVD). XC En-32 Turning On & Basic Operations Using the Home Menu The Home menu provides quick access to frequently used settings. You can change settings and view the current information. 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. Note • The on-screen menus are displayed when: – There is no video input, or – The video input is 480p, 576p, 720p, 1080i, or 1080p. □ Info*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" and "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 Selecting Speakers A and B You can use two sets of front speakers with the AV receiver: Speakers A for up to 5.1-channel playback in your main listening room and Speakers B for 2-channel stereo playback in another room. 1 Press RECEIVER once followed by SP A/B repeatedly to cycle through the selection: Speakers A → Speakers A&B → Speakers B Off ← Speaker indicators and output channels are shown below. 1 2 Press RECEIVER followed by HOME. The Home menu will be superimposed on the TV screen. Use q/w and ENTER to make the desired selection. □ Input You can select the input source. Use q/w to select the desired input source. Pressing ENTER switches to the selected input source. □ Audio You can change the following settings: "Bass", "Treble", "Subwoofer Level", "Center Level", "Late Night", "Music Optimizer", and "Cinema Filter".

See also: • "Using the Audio Settings" (□ page 46) 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 45). – "HDMI Ctrl (RIHD)" is set to "On" (□ page 45) and you're listening through your TV speakers. Speaker indicators Output channel A A B B Speakers A: 5.1 channels Speakers A: 2.

I channels*3 Speakers B: 2 channels Speakers B: 2 channels No sound *3 While Speakers B is on, channels are reduced to 2.1 in the main room. Tip • Alternatively, you can use the AV receiver's SPEAKERS A and B. En-33 → 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 equal to 10 minutes or less, the sleep timer will go off.



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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 typically be displayed. Input source & volume*1 Listening mode Signal format*2 or sampling frequency *1 *2 When AM or FM radio is used, the band, frequency, and preset number 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-34 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.

1 1 2 Press TV/CD, GAME or VCR/DVR. "TV/CD", "GAME" or "VCR/DVR" appears on the AV receiver's display. Press and hold down the same button (about 3 seconds) to change the input display. Repeat this step to select the desired input display. Press MUSIC OPTIMIZER on the front panel. The M.Opt indicator lights on the AV receiver's display. Tip • Alternatively, you can use the remote controller's HOME. • See "Music Optimizer" for more details (□ page 47). 1 Press RECEIVER followed by MUTING.

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 □ VCR/DVR: VCR/DVR □ DOCK Note • "DOCK" can be selected for the "TV/CD", "GAME" or "VCR/DVR" input selector, but not at the same time. • Enter the appropriate remote control code before using the remote controller for the first time (□ page 50). → En-35 Turning On & Basic Operations Using Headphones Recording This section explains how to record the selected input source to a component with recording capability. 1 Connect a pair of stereo headphones with a standard plug (1/4 inch or 6.3 mm) to the PHONES jack. Note • Always turn down the volume before connecting your headphones. • While the headphones plug is inserted in the PHONES jack, the speakers are turned off.

• When you connect a pair of headphones, the listening mode is set to Stereo, unless it's already set to Stereo, Mono, or Direct. • If you connect an iPod or iPhone to the USB port on the AV receiver, no sound will be output from the headphones jack. AV Recording Audio sources can be recorded to a recorder (e.g., cassette tape deck, CDR, MD recorder). Video sources can be recorded to a video recorder (e.g., VCR, DVD recorder). 1 Use the input selector buttons to select the source that you want to record. You can watch the source while recording.

The AV receiver's MASTER VOLUME control has no effect on recording. On your recorder, start recording. On the source component, start playback. If you select another input source during recording, that input source will be recorded. 2 3 En-36 Advanced Operations On-screen Setup The setup menu provides a convenient way to change the AV receiver's various settings.

Settings are organized into 10 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.

Common Procedures in Setup Menu Remote indicator Explanatory Notes a b c Menu Sp Config □ Subwoofer Yes No RECEIVER ENTER q/w/e/r SETUP RETURN a Menu selection b Setting target c Setting options (default setting underlined) Menu 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.

HDMI Input Component Digital Audio Sp Config Sp Distance Level Cal Audio Adjust Source Setup Hardware HDMI Setup Menu 1 2 3 Press RECEIVER followed by SETUP. Use q/w to select a menu item, and then press ENTER. Use q/w to select a setting target, and use e/r to change the setting. Press SETUP to close the menu. Press RETURN to return to the previous menu. BD/DVD VCR/DVR CBL/SAT GAME AUX TUNER TV/CD Setting target Note • This procedure can also be performed on the AV receiver by using SETUP, the cursor buttons, and ENTER. En-37 Advanced Operations Setup menu items Menu item HDMI Input (□ page 39) Setting target BD/DVD VCR/DVR CBL/SAT GAME AUX TV/CD Component (□ page 39) BD/DVD VCR/DVR CBL/SAT GAME AUX TV/CD Digital Audio (□ page 40) BD/DVD VCR/DVR CBL/SAT GAME AUX TV/CD Sp Config (□ page 40) Subwoofer Front Center Surround Crossover Double Bass Sp Distance (□ page 41) Unit Left Center Right Surround Right Surround Left Subwoofer Menu item Level Cal (□ page 41) Setting target Left Center Right Surround Right Surround Left Subwoofer Audio Adjust (□ page 42) Input Ch (Mux) Input Ch (Mono) Panorama Dimension Center Width Center Image Listening Angle Source Setup (□ page 43) A/V Sync Name Audio Selector Fixed Mode Hardware (□ page 44) Volume OSD Remote ID AM/FM Freq Step AM Freq Step Auto Standby HDMI Setup (□ page 45) HDMI Ctrl (RIHD) HDMI Through Audio TV Out Audio Return Ch LipSync En-38 Advanced Operations HDMI Input 1 2 3 4 5 6 Note • If no video component is connected to HDMI output (even if the HDMI input is assigned), the AV receiver selects the video source based on the setting of "Component (Component Video Input)". • When an HDMI IN is assigned to an input selector as explained here, the same HDMI IN will be set as a priority in the "Digital Audio (Digital Audio Input)" (□ page 40). In this case, if you want to use the coaxial or optical audio input, make the appropriate selection in the "Audio Selector" setting (□ page 43). • Do not assign an HDMI IN to the TV/CD selector while "HDMI Ctrl (RIHD)" is set to "On" (□ page 45), otherwise appropriate CEC (Consumer Electronics Control) operation will not be guaranteed. • If you assign "- - - -" to an input selector that is currently selected in "HDMI Through" (□ page 45), the "HDMI Through" setting will be automatically switched to "Off". • The "TUNER" selector cannot be assigned and is fixed at the "- - - -" option.



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