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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO HT-R538. You'll find the answers to all your questions on the ONKYO HT-R538 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ONKYO HT-R538
User guide ONKYO HT-R538
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Instruction manual ONKYO HT-R538

ONKYO®

AV Receiver

HT-R538

Instruction Manual

Thank you for purchasing an Onkyo AV Receiver.
Please read this manual thoroughly before making
connections and plugging in the unit.
Following the instructions in this manual will enable
you to obtain optimum performance and listening
enjoyment from your new AV Receiver.
Please retain this manual for future reference.

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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. PORTABLE CART WARNING Use only with the cart, stand, 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 avoid S3125A 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 of free space at the top and sides and 10 cm at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm 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 user-serviceable. If you cannot turn on the unit, contact your Onkyo dealer. 3. Care--Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering. 4. Power WARNING BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. AC outlet voltages vary from country to country.

Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz). The power cord plug is used to disconnect this unit from the AC power source. Make sure that the plug is readily operable (easily accessible) at all times. Pressing ON/STANDBY to select Standby mode does not fully shutdown the unit. 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 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. 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. 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.



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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. 5. 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 6. 7. 8.

ONKYO EUROPE ELECTRONICS GmbH En 3 Supplied Accessories Make sure you have the following accessories: Indoor FM antenna (16) AM loop antenna (16) Speaker cable labels (11) (Not supplied with the HT-S5305 Home Theater System.) Remote controller and two batteries (AA/R6) (4) * 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. Using the Remote Controller 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.

· If you intend not to use Batteries (AA/R6) 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. Aiming the Remote Controller To use the remote controller, point it at the AV receiver's remote control sensor, as shown below. Remote control sensor AV receiver Approx. 5 m En 4 Contents Introduction Important Safety

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..... 17 Controlling iPod and the double-D symbol are trademarks of Dolby Laboratories. Music Optimizer™ is a trademark of Onkyo Corporation. "HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

"In Europe, using banana plugs to connect speakers to an audio amplifier is prohibited. Apple and iPod are trademarks of Apple Inc., registered in the U.S. and other countries. "x.v.Color" is a trademark of Sony Corporation. *5 Connections · 3 HDMI*4 Inputs and 1 Output · Onkyo for System Control · 3 Digital

Inputs (2 Optical/1 Coaxial) · Component Video Switching (2 Inputs/1 Output) · Universal Port for the Dock for iPod*/DAB+ tuner module · Banana Plug-Compatible Speaker Posts*5 * * Miscellaneous · 40 FM/AM Presets · Crossover Adjustment (40/50/60/80/100/120/150/200 Hz) · A/V Sync Control Function (up to 100 ms) · On-Screen Display via HDMI En 6 Front & Rear Panels Front Panel The actual front panel has various logos printed on it. They are not shown here for clarity.

The page numbers in parentheses show where you can find the main explanation for each item. ON/STANDBY button (18) STANDBY indicator (18) HDMI THRU indicator (33) SPEAKERS A and B buttons (10, 20) Remote control sensor (4) TONE LEVEL and TONE buttons (36) Display (8) LISTENING MODE buttons (25) RT/PTY/TP button (22) MEMORY button (22) TUNING MODE button (21) DISPLAY button (19) SETUP button (28) TUNING, PRESET (21 to 22), arrow and ENTER buttons RETURN button MASTER VOLUME control (19) MUSIC OPTIMIZER button (19, 35) PHONES jack (20) Input selector buttons (19) AUX INPUT LINE IN jack (15) En 7 Display For detailed information, see the pages in parentheses. A and B speaker indicators (10, 20) Audio input indicators Listening mode and format indicators (19, 25) Tuning indicators (21) RDS indicator (22) SLEEP indicator (20) MUTING indicator (20) Message area Rear Panel DIGITAL IN COAXIAL and OPTICAL jacks COMPONENT VIDEO IN and OUT jacks HDMI IN and OUT jacks FM ANTENNA jack and AM ANTENNA terminal MONITOR OUT V jack UNIVERSAL PORT jack FRONT SPEAKERS A terminals SPEAKERS terminals (SURR, CENTER) FRONT SPEAKERS B terminals Power cord REMOTE CONTROL jack Composite video and analog audio jacks (BD/DVD IN, VCR/DVR IN and OUT, CBL/SAT IN, GAME IN, TV/CD IN) SUBWOOFER PRE OUT jack See "Connecting the AV Receiver" for connection information (11 to 17). En 8 Remote Controller Controlling the AV Receiver 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 (41). For detailed information, see the pages in parentheses. ON/STANDBY button (18) REMOTE MODE/INPUT SELECTOR buttons (19, 41 to 42) TONE, + and buttons (36) SP A/B button (10, 20) Arrow /// and ENTER buttons SETUP button (28) LISTENING MODE buttons (25) DIMMER button (19) DISPLAY button (19) MUTING button (20) VOL / button (19) RETURN button AUDIO button (34) SLEEP button (20) Controlling the tuner To control the AV receiver's tuner, press TUNER (or RECEIVER). You can select AM or FM by pressing TUNER repeatedly. Arrow / buttons (21) D.

TUN button (21) DISPLAY button (22) TUN MODE button (21) CH +/- button (22) Number buttons (21) En 9 About Home Theater Speakers A and B You can use two sets of speakers with the AV receiver: Speakers A and Speakers B. Speakers A should be used in your main listening room for up to 5.1-channel playback. * While Speakers B is on, Speakers A is reduced to 2.1-channel playback. Speakers B can be used in another room and offers 2-channel stereo playback. Speakers A On Speakers B On Off Off On Off Indicator A A B B Output Speakers A: 2.1 channels Speakers B: 2 channels Speakers A: 5.1 channels Speakers B: 2 channels No sound Enjoying Home Theater Thanks to the AV receiver's superb capabilities, you can enjoy surround sound with a real sense of movement in your own home--just like being in a movie theater or concert hall.



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With Blu-ray Discs, you can enjoy DTS and Dolby Digital.

With analog or digital TV, you can enjoy Dolby Pro Logic II, DTS Neo:6, or Onkyo's original DSP listening modes. Speakers A: Main Room Front speakers These output the overall sound. Their role in a home theater is to provide a solid anchor for the sound image. They should be positioned facing the listener at about ear level, and equidistant from the TV. Angle them inward so as to create a triangle, with the listener at the apex. Center speaker This speaker enhances the front speakers, making sound movements distinct and providing a full sound image. In movies it's used mainly for dialog. Position it close to your TV facing forward at about ear level, or at the same height as the front speakers. While Speakers B is on, this speaker outputs no sound. Surround speakers These speakers are used for precise sound positioning and to add realistic ambience.

Position them at the sides of the listener, or slightly behind, about 60 to 100 cm above ear level. Ideally they should be equidistant from the listener. While Speakers B is on, these speakers outputs no sound. Subwoofer The subwoofer handles the bass sounds of the LFE (Low-Frequency Effects) channel. The volume and quality of the bass output from your subwoofer will depend on its position, the shape of your listening room, and your listening position. In general, a good bass sound can be obtained by installing the subwoofer in a front corner, or at one-third the width of the wall, as shown. Tip · 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. Corner position * 1/3 of wall position * Speakers B: Sub Room En 10 Connecting the AV Receiver Connecting Your Speakers Speaker Configuration The following table indicates the channels you should use depending on the number of speakers that you have. For 5.1-channel surround-sound playback, you need five speakers and a powered subwoofer.

Number of channels Front speakers Center speaker Surround speakers 2 3 4 5 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. 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. You can do this manually (30).

Attaching the Speaker Cable Labels The AV receiver's positive (+) speaker terminals are color-coded for ease of identification. (The negative (-) speaker terminals are all black.) 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. · 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. · Speaker cable labels is not supplied with the HT-S5305 Home Theater System. 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 (-) En 11 Connecting the Speaker Cables Screw-type speaker terminals Strip 12 to 15 mm of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. (HT-S5305: Supplied speaker cables are already stripped.

) Push-type speaker terminals Strip 10 to 12 mm of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. (HT-S5305: Supplied speaker cables are already stripped.) 10 to 12 mm 12 to 15 mm The following illustration shows which speaker should be connected to each pair of terminals. Front right speaker B Front left speaker B Front right speaker A Front left speaker A Surround right speaker Surround left speaker Center speaker Powered subwoofer * (HT-S5305) Using the supplied RCA cable, connect the subwoofer's LINE INPUT jack to your AV receiver's SUBWOOFER PRE OUT jack. En 12 About AV Connections Connected image with AV components HDMI cable : Video & Audio Other cables : Video : Audio AV receiver AV receiver Blu-ray Disc/DVD player TV, projector, etc.

Game console TV, projector, etc. Blu-ray Disc/DVD player Game console · Before making any AV connections, read the manuals supplied with your AV components. · Don't connect the power cord until you've completed and double-checked all AV connections. · Push plugs in all the way to make good connections (loose connections can cause noise or malfunctions). · To prevent interference, keep audio and video cables away from power cords and speaker cables. Right! AV Cables and Jacks Signal Video and Audio Video Cable HDMI Component video Jack HDMI Wrong! Description HDMI connections can carry digital video and audio. The AV receiver is compliant with HDMI. Component video separates the luminance (Y) and color difference signals (PR, PB), providing the best picture quality (some TV manufacturers label their component video sockets slightly differently). Composite video is commonly used on TVs, VCRs, and other video equipment. Optical digital connections allow you to enjoy digital sound such as PCM* or Dolby Digital.

The audio quality is the same as coaxial. Coaxial digital connections allow you to enjoy digital sound such as PCM* or Dolby Digital. The audio quality is the same as optical. Analog audio connections (RCA) carry analog audio. Y PB/CB PR/CR Green Blue Red V Composite video Audio Optical digital audio Coaxial digital audio Analog audio (RCA) 3.5 mm Stereo mini plug * L Yellow OPTICAL Orange White Red R This cable carries analog audio.



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Available sampling rate for PCM input signal is 32/44.1/48/88.2/96 kHz. Even 176.

4/192 kHz is effective in case of the HDMI connection. Note · The AV receiver does not support SCART plugs. · The AV receiver's optical digital jacks have shutter-type covers that open when an optical plug is inserted and close when it's removed. Push plugs in all the way. Caution · To prevent shutter damage, hold the optical plug straight when inserting and removing.

En 13 Connecting Components with HDMI Game console TV, projector, etc. Satellite, cable, set-top box, etc. Blu-ray Disc/DVD player Connect your components to the appropriate jacks. The default input assignments are shown below. : Assignment can be changed (29).

Jack Input HDMI IN1 HDMI IN2 HDMI IN3 Output HDMI OUT Signal Audio/Video Components Blu-ray Disc/DVD player Satellite, cable, set-top box, etc. Game console TV, projector, etc. Assignable Refer to "About HDMI" (49) and "Using an RIHD-compatible TV, Player, or Recorder" (50). Tip To listen to audio received by the HDMI IN jacks through your TV's speakers: Set the "TV Control" setting to "On" (33) for an -compatible TV. Set the "Audio TV OUT" setting to "On" (32) when the TV is not compatible with or the "TV Control" setting to "Off". Set your Blu-ray Disc/DVD player's HDMI audio output setting to PCM. To listen to TV audio through the AV receiver, see "Connecting External Components" (15). Note · When listening to an HDMI component through the AV receiver, set the HDMI component so that its video can be seen on the TV screen (on the TV, select the input of the HDMI component connected to the AV receiver). If the TV power is off or the TV is set to another input source, this may result in no sound from the AV receiver or the sound may be cut off. · When the "Audio TV OUT" setting is set to "On" (32) to hear from your TV's speakers, by controlling the AV receiver's volume, the sound will be output from the AV receiver's speakers, too.

When the "TV Control" setting is set to "On" (33) to hear from speakers of -compatible TV, by controlling the AV receiver's volume, the AV receiver's speakers will produce sound while the TV's speakers are muted. To stop the AV receiver's speakers producing sound, change the settings, change your TV's settings, or turn down the AV receiver's volume. Audio return channel (ARC) function Audio return channel (ARC) function enables an HDMI capable TV to send the audio stream to the HDMI OUT of the AV receiver. To use this function, you must select the TV/CD input selector. · To use ARC function, you must select the TV/CD input selector, your TV must support ARC function and "HDMI Control" is set to "On" (33). En 14 Connecting External Components The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the MONITOR OUT V or the COMPONENT VIDEO OUT, use the AV receiver's display when changing settings. Connect your components to the appropriate jacks. The default input assignments are shown below. : Assignment can be changed (29).

How to record the video With the connections described here, you cannot record the video through the AV receiver. To make a connection for video recording (24). No. Jack COMPONENT VIDEO DIGITAL IN IN 1 (BD/DVD) IN 2 (CBL/SAT) OUT OPTICAL IN 1 (GAME) IN 2 (TV/CD) COAXIAL (BD/DVD) MONITOR OUT BD/DVD IN VCR/DVR IN CBL/SAT IN GAME IN TV/CD IN UNIVERSAL PORT Signal Component video Digital audio Components Blu-ray Disc/DVD player Satellite, cable, set-top box, etc. TV, projector, etc.

Game console TV, CD player Blu-ray Disc/DVD player Assignable Composite video TV, projector, etc. Analog audio Blu-ray Disc/DVD player and composite VCR or DVD recorder/Digital video Video Recorder Satellite, cable, set-top box, etc. Game console Analog audio Analog audio/ Video TV, CD player, Turntable*1, Cassette tape deck, MD, CD-R Universal port optional dock (UP-A1 etc.) *1 If your turntable has a moving coil (MC) type cartridge, you'll need a commercially available MC head amp or MC transformer. See your turntable's manual for details.

You can also use a phono equalizer to connect a turntable with an MC-type cartridge. See your phono equalizer's manual for details. · With connection , you can enjoy Dolby Digital and DTS. · If your Blu-ray Disc/DVD player has both the main stereo and multichannel outputs, be sure to connect the main stereo output using connection . Using the AUX INPUT jack on the front panel Portable audio player Analog audio line output (13) En 15 Connecting Onkyo Components Note · Use only cables for connections. cables are supplied with Onkyo players (DVD, CD, etc.). · Some components have two jacks. You can connect either one to the AV receiver. The other jack is for connecting additional -capable components.

· Connect only Onkyo components to jacks. Connecting other manufacturer's components may cause a malfunction. · Some components may not support all functions. Refer to the manuals supplied with your other Onkyo components. IN L R Step 1: Make sure that each Onkyo component is connected with an analog audio cable (connection in the hookup examples) (15). Step 2: Make the connection (see illustration below). Step 3: If you're using an RI Dock, or cassette tape deck, change the Input Display (20). With (Remote Interactive), you can use the following special functions: System On/Auto Power On When you start playback on a component connected via , if the AV receiver is on Standby, it will automatically turn on and select that component as the input source. Direct Change When playback is started on a component connected via , the AV receiver automatically selects that component as the input source. Remote Control You can use the AV receiver's remote controller to control your other -capable Onkyo components, pointing the remote controller at the AV receiver's remote control sensor instead of the component.

You must enter the appropriate remote control code first (41). TV/CD IN L REMOTE CONTROL R BD/DVD e.g., CD player R L ANALOG AUDIO OUT e.g., DVD player R L ANALOG AUDIO OUT Connecting Antenna This section explains how to connect the supplied indoor FM antenna and AM loop antenna. The AV receiver won't pick up any radio signals without any antenna connected, so you must connect the antenna to use the tuner. Caution · Be careful that you don't injure yourself when using thumbtacks. Insert the plug fully into the jack. Push.

Insert wire. Release. Assembling the AM loop antenna Thumbtacks, etc.



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Indoor FM antenna (supplied) AM loop 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 16 Which Connections Should I Use? The AV receiver supports several connection formats for compatibility with a wide range of AV equipment. The format you choose will depend on the formats supported by your components. Use the following sections as a guide.

The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the MONITOR OUT V or the COMPONENT VIDEO OUT, use the AV receiver's display when changing settings. Note The on-screen setup menus are displayed when: · There is no video input, or · The video input is 480p, 576p, 720p, 1080i, or 1080p. Video Connection Formats Video component can be connected by using any one of the following video connection formats: composite video, component video, or HDMI, the latter offering the best picture quality. When choosing a connection format, bear in mind that the AV receiver doesn't convert between formats, so only outputs of the same format as the input will output the signal. Video Signal Flow Chart Blu-ray Disc, DVD player, etc. Composite Component HDMI IN AV receiver MONITOR OUT Composite Component HDMI TV, projector, etc. Audio Connection Formats Audio component can be connected by using any of the following audio connection formats: analog, optical, coaxial, or HDMI. When choosing a connection format, bear in mind that the AV receiver does not convert digital input signals for analog line outputs and vice versa. For example, audio signals connected to an optical or coaxial digital input are not output by the analog VCR/DVR OUT.

*If signals are present at more than one input, the inputs will be selected automatically in the following order of priority: HDMI, digital, analog. *1 *2 Audio Signal Flow Chart Blu-ray Disc, DVD player, etc. Analog Optical Coaxial HDMI IN AV receiver *1 Analog *1 OUT *1 HDMI *1 *2 TV, projector, etc. Depends on the "Audio TV OUT" setting (32). This setting is available, when "Audio Return Ch" setting is set to "Auto" (33), you must select the TV/CD input selector and your TV must support ARC function.*

En 17 Turning On/Off the AV Receiver ON/STANDBY STANDBY indicator ON/STANDBY RECEIVER Front panel Remote controller Turning On Press ON/STANDBY on the front panel. or Press RECEIVER followed by ON/STANDBY on the remote controller. The AV receiver comes on, the display lights, and the STANDBY indicator goes off. Turning Off Press ON/STANDBY on the front panel or 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. En 18 Basic Operations This manual describes the procedure using the remote controller unless otherwise specified. Displaying Source Information You can display various information about the current input source as follows. Press RECEIVER followed by DISPLAY repeatedly to cycle through the available information. Tip · Alternatively, you can use the AV receiver's DISPLAY. Playing the Connected Component Operating on the AV receiver 1 2 Use the input selector buttons to select the input source.

*Start playback on the source component. See also: · "Controlling Other Components" (41) · "Controlling iPod" (37) · "Listening to the Radio" (21) To adjust the volume, use the MASTER VOLUME control. Select a listening mode and enjoy! See also: · "Using the Listening Modes" (25) *1 *2 The following information can typically be displayed. Input source & volume*1 3 4 Signal format*2 or sampling frequency Input source & listening mode*3 When AM or FM radio is used, the band, preset number, and frequency are displayed.*

*If the input signal is analog, no format information is displayed. If the input signal is PCM, the sampling frequency is displayed. If the input signal is digital but not PCM, the signal format is displayed. Information is displayed for about three seconds, then the previously displayed information reappears. The input source is displayed with the default name even when you have selected a name in "Name Edit" (32). Operating with the remote controller 1 2 Press RECEIVER followed by INPUT SELECTOR. Start playback on the source component. See also: · "Controlling Other Components" (41) · "Controlling iPod" (37) · "Listening to the Radio" (21) To adjust the volume, use VOL / . Select a listening mode and enjoy! See also: · "Using the Listening Modes" (25) *3 3 4 Using the Music Optimizer The Music Optimizer function enhances the sound quality of compressed music files. Press MUSIC OPTIMIZER on the front panel.*

The M.Opt indicator lights on the display. Tip · Alternatively, you can use the remote controller's AUDIO and arrow buttons. · See "Music Optimizer" for more details (35). Setting the Display Brightness You can adjust the brightness of the AV receiver's display.

Press RECEIVER followed by DIMMER repeatedly to select: dim, dimmer, or normal brightness. En 19 Muting the AV Receiver You can temporarily mute the output of the AV receiver. Press RECEIVER followed by MUTING. The output is muted and the MUTING indicator flashes on the display. Tip · To unmute, press MUTING again or adjust the volume.

· The Mute function is cancelled when the AV receiver is set to Standby. Changing the Input Display When you connect an -capable Onkyo component, you must configure the input display so that can work properly. This setting can be done only from the front panel. 1 Press TV/CD, GAME or VCR/DVR on the front panel so that "TV/CD", "GAME" or "VCR/DVR" appears on the display. Using the Sleep Timer With the sleep timer, you can set the AV receiver to turn off automatically after a specified period. Press RECEIVER 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 display when the sleep timer has been set. The specified sleep time appears on the display for about five seconds, then the previous display reappears.



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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 SLEEP while the sleep time is being displayed, you'll shorten the sleep time by 10 minutes. 2 Press and hold down TV/CD, GAME or VCR/DVR (about 3 seconds) to change the input display. Repeat this step to select "MD", "CDR", "DOCK" or "TAPE". For the TV/CD input selector, the input display changes in this order: TV/CD MD CDR TAPE DOCK For the GAME input selector, the setting changes in this order: GAME DOCK For the VCR/DVR input selector, the setting changes in this order: VCR/DVR DOCK Using Headphones Connect a pair of stereo headphones with a standard plug (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. · The listening modes cannot be selected while a pair of headphones is connected.

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 (41). 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. Press RECEIVER followed by SP A/B repeatedly to cycle through the selection: Speakers A Speakers A&B Speakers B Off A or B, or both indicators light on the display.

Note · While Speakers B is on, channels are reduced to 2.1 in the main room (10). Tip · Alternatively, you can use the AV receiver's SPEAKERS A and B. En 20 Listening to the Radio This section describes the procedure using the buttons on the front panel unless otherwise specified. Manual tuning mode 1 2 Press TUNING MODE so that the AUTO indicator goes off on the display.

Press and hold TUNING /. The frequency stops changing when you release the button. Press the buttons repeatedly to change the frequency one step at a time. 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.

Listening to the Radio 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 This model changes AM frequency in 9 or 10 kHz steps. In manual tuning mode, FM stations will be in mono.

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. Tip · Alternatively, you can use the remote controller's TUN MODE and arrow buttons. (Actual display depends on the country.) Tuning into Radio Stations Auto tuning mode Tuning into stations by frequency You can tune into AM and FM stations directly by entering the appropriate frequency. 1 2 1 On the remote controller, press TUNER repeatedly to select "AM" or "FM", followed by D.TUN. Press TUNING MODE so that the AUTO indicator lights on the display. Press TUNING /. Searching stops when a station is found.

When tuned into a station, the TUNED indicator lights. When tuned into a stereo FM station, the FM STEREO indicator lights on the display, as shown. FM STEREO 2 (Actual display depends on the country.) Within 8 seconds, use the number buttons to enter the frequency of the radio station. For example, to tune to 87.

50 (FM), press 8, 7, 5, 0. AUTO TUNED Tip · Alternatively, you can use the remote controller's TUN MODE and arrow buttons. En 21 Presetting FM/AM Stations You can store a combination of up to 40 of your favorite FM/AM radio stations as presets. Using RDS RDS works only in areas where RDS broadcasts are available. When tuned into an RDS station, the RDS indicator lights.

1 2 Tune into the FM/AM station that you want to store as a preset. See the previous section. Press MEMORY. The preset number flashes. What is RDS? RDS stands for Radio Data System and is a method of transmitting data in FM radio signals. It was developed by the European Broadcasting Union (EBU) and is available in most European countries. Many FM stations use it these days. In addition to displaying text information, RDS can also help you find radio stations by type (e.g., news, sport, rock, etc.

). The AV receiver supports four types of RDS information: PS (Program Service) When tuned to an RDS station that's broadcasting PS information, the station's name will be displayed. Pressing DISPLAY will display the frequency for 3 seconds. RT (Radio Text) When tuned to an RDS station that's broadcasting text information, the text will be shown on the display as described in the next section. PTY (Program Type) This allows you to search for RDS radio stations by type (23). TP (Traffic Program) This allows you to search for RDS radio stations that broadcast traffic information (23). 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.

3 4 While the preset number is flashing (about 8 seconds), use PRESET / to select a preset from 1 through 40. Press MEMORY again to store the station or channel. The station or channel is stored and the preset number stops flashing. Repeat this procedure for all of your favorite FM/ AM radio stations. Selecting Presets To select a preset, use PRESET / on the AV receiver, or the remote controller's CH +/-.

Tip · You can also use the remote controller's number buttons to select a preset directly. Deleting Presets 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.

When tuned to an RDS station that's broadcasting text information, the text can be displayed. Displaying Radio Text (RT) Press RT/PTY/TP once. The RT information scrolls across the display. Note · The message "Waiting" may appear while the AV receiver waits for the RT information. · If the message "No Text Data" appears on the display, no RT information is available.



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En 22 Finding Stations by Type (PTY) You can search for radio stations by type. 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 2 3 4 Press RT/PTY/TP twice. The current program type appears on the display. Use PRESET / to select the type of program you want. See the table shown later in this chapter.

To start the search, press ENTER. The AV receiver searches until it finds a station of the type you specified, at which point it stops briefly before continuing with the search. When a station you want to listen to is found, press ENTER. If no stations are found, the message "Not Found" appears. Listening to Traffic News (TP) You can search for stations that broadcast traffic news. 1 2 Press RT/PTY/TP three times. If the current radio station is broadcasting TP (Traffic Program), "[TP]" will appear on the display, and traffic news will be heard as and when it's broadcast. If "TP" without square brackets appears, this means that the station is not broadcasting TP. To locate a station that is broadcasting TP, press ENTER. The AV receiver searches until it finds a station that's broadcasting TP.

If no stations are found, the message "Not Found" appears. En 23 Recording This section explains how to record the selected input source to a component with recording capability, and how to record audio and video from different sources. Connecting a Recording Component Recording Separate AV Sources Here you can record audio and video from completely separate sources, allowing you to overdub audio onto your video recordings. This function takes advantage of the fact that when an audio-only input source (TV/CD) is selected, the video input source remains unchanged. In the following example, audio from the CD player connected to the TV/CD IN and video from the camcorder connected to the BD/DVD IN are recorded by the VCR connected to the VCR/DVR OUT jacks.

L AUDIO IN R VIDEO IN Camcorder VCR, DVD recorder Note Cassette, CDR, MD, etc. · The AV receiver must be turned on for recording. Recording is not possible while it's in Standby mode. · If you want to record directly from your TV or playback VCR to the recording VCR without going through the AV receiver, connect the TV/VCR's audio and video outputs directly to the recording VCR's audio and video inputs. See the manuals supplied with your TV and VCR for details.

· Video signals connected to composite video inputs can be recorded only via composite video outputs. If your TV/VCR is connected to a composite video input, the recording VCR must be connected to a composite video output. · The surround sound and DSP listening modes cannot be recorded. · Copy-protected Blu-ray discs and DVDs cannot be recorded. · Sources connected to a digital input cannot be recorded. Only analog inputs can be recorded. · DTS signals will be recorded as noise, so don't attempt analog recording of DTS CDs or LDs. CD player VCR : Video signal : Audio signal 1 2 3 4 5 Prepare the camcorder and CD player for playback. Prepare the VCR for recording. Press BD/DVD input selector.

Press TV/CD input selector. This selects the CD player as the audio source, but leaves the camcorder as the video source. Start recording on the VCR and start playback on the camcorder and CD player. The video from the camcorder and the audio from the CD player are recorded by the VCR. AV Recording Audio sources can be recorded to a recorder (e.g., cassette deck, CDR, MD) connected to the VCR/DVR OUT jacks. Video sources can be recorded to a video recorder (e.g., VCR, DVD recorder) connected to the VCR/DVR OUT jack.

1 2 3 En 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. 24 Using the Listening Modes Selecting Listening Modes See "About Listening Modes" for detailed information about the listening modes (25). Listening Mode Buttons 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" (19). · While a pair of headphones is connected, you can select the following listening modes: Mono, Direct, and Stereo. · The listening modes cannot be selected while a pair of headphones is connected. · While Speakers A and B are on, you can select only the Direct, Stereo, Mono, or T-D (Theater-Dimensional) listening mode. Press RECEIVER first. MUSIC MOVIE/TV GAME STEREO MOVIE/TV, MUSIC, GAME 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 Input Source The following audio formats are supported by the listening mode.

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). *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 The AV receiver outputs this source in 5.1-channel surround sound. En 25 Speaker Layout The illustration shows which speakers are activated in each channel. See "Sp Config (Speaker Configuration)" for the speaker setup (30).



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Front speakers Center speaker Subwoofer Surround speakers Listening Modes Listening Mode Direct Description In this mode, audio from the input source is output without surround-sound processing.

The "Sp Config" (presence of speakers), "Sp Distance" and "A/V Sync" settings are enabled, but much of the processing set via AUDIO is disabled. See "Advanced Setup" for more details (28). Sound is output by the front left and right speakers and subwoofer. Input Speaker Source Layout Di rec t Stereo Stereo Mono 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 sources. Mono Multichannel Multichannel Dolby Pro Logic II 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 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. In this mode, audio from the input source is output without surround-sound processing. "Sp Config" (presence of speakers), "Crossover", "Sp Distance", "A/V Sync" and much of the processing set via AUDIO are enabled. See "Advanced Setup" for more details (28). PL PL PL Movie Music Game Dolby Digital Dolby Digital Plus*1 Dolby D+ Dolby TrueHD True HD DTS DTS DTS-HD High Resolution Audio DTS HD HR DTS-HD Master Audio DTS HD MS TR DTS Express DTS Express En 26 Listening Mode DSD*2 Description (Continued from the previous page.) Input Speaker Source Layout DSD DTS 96/24*3 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. DTS 96 / 24 DTS Neo:6 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 Neo:6 Cinema Neo:6 Music 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). Onkyo-Original DSP Listening Modes Listening Mode Orchestra 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. Use this mode when playing role playing game discs. Input Speaker Source Layout Or ches t r a Unplugged Unplugged Studio-Mix Studio-Mix TV Logic TV Logic Game-RPG Game RPG Game-Action Use this mode when playing action game discs. Game Action Game-Rock Use this mode when playing rock game discs.

Game Rock Game-Sports Use this mode when playing sports game discs. Game Sports All Ch Stereo Ideal for background music, this mode fills the entire listening area with stereo sound from the front, surround, and surround back 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. 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.

All Ch St Full Mono Full Mono T-D (TheaterDimensional) TD Note *1 *2 For the Blu-ray Discs, Dolby Digital is used. 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 Depending on the input source, DTS is used. · The listening modes cannot be selected with some source formats. En 27 Advanced Setup On-screen Setup Menus The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the composite video MONITOR OUT or the COMPONENT VIDEO OUT, use the AV receiver's display when changing settings. Note Common Procedures in Setup Menu Remote indicator RECEIVER The on-screen setup menus are displayed when: · There is no video input, or · The video input is 480p, 576p, 720p, 1080i, or 1080p. ENTER // SETUP RETURN Setup Menu 1.

2. 3. 4. 5. 6.

7. 8. 9. 10. HDMI Input Component Digital Audio Sp Config Sp Distance Level Cal Audio Adjust Name Edit Hardware HDMI Setup BD/DVD VCR/DVR CBL/SAT GAME AUX TV/CD PORT The on-screen setup menus appear on the connected TV and provide a convenient way to change the AV receiver's various settings.

Settings are organized into ten categories on the main menu. Carry out the settings by using the on-screen display. 1 Press RECEIVER followed by SETUP. The following menu appears. Setup Menu 1. 2. 3. 4. 5. 6.

7. 8. 9. 10. HDMI Input Component Digital Audio Sp Config Sp Distance Level Cal Audio Adjust Name Edit Hardware HDMI Setup BD/DVD VCR/DVR CBL/SAT GAME AUX TV/CD PORT HDMI1 ----HDMI2 HDMI3 ----- HDMI Input (29) BD/DVD VCR/DVR CBL/SAT GAME AUX TV/CD PORT Level Cal (31) Left Center Right Surround Right Surround Left Subwoofer Tip Component (29) BD/DVD VCR/DVR CBL/SAT GAME AUX TV/CD PORT Audio Adjust (31) Input Ch(Mux) Input Ch(Mono) Panorama Dimension Center Width Center Image Listening Angle 2 3 · If the main menu doesn't appear, make sure the appropriate external input is selected on your TV.



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Use / to select a menu, and then press ENTER. Use / to select a target, and / to change the setting. Press SETUP to close the menu. Press RETURN to return to the main menu. Digital Audio (29) BD/DVD VCR/DVR CBL/SAT GAME AUX TV/CD PORT Name Edit (32) Name Note · This procedure can also be performed on the AV receiver by using SETUP, arrow buttons, and ENTER.

Sp Config (30) Subwoofer Front Center Surround Crossover Double Bass Hardware (32) Remote ID AM Freq Step Sp Distance (30) Unit Left Center Right Surround Right Surround Left Subwoofer HDMI Setup (32) Audio TV OUT LipSync HDMI Control Audio Return Ch Power Control TV Control En 28 Explanatory Notes Menu Sp Config Component (Component Video Input) Menu Component Subwoofer Yes: Select if a subwoofer is connected. No: Select if no subwoofer is connected. Menu selection Setting target Setting options (default setting underlined) If you connect a video component to a component video input, you must assign that input to an input selector. For example, if you connect your Blu-ray Disc/DVD player to COMPONENT VIDEO IN 2, you must assign "IN2" to the "BD/DVD" input selector. Here are the default assignments.

Input selector BD/DVD VCR/DVR CBL/SAT GAME AUX Default assignment IN1 ----IN2 ----- HDMI Input Menu HDMI Input TV/CD PORT If you connect a video component to an HDMI input, you must assign that input to an input selector. For example, if you connect your Blu-ray Disc/DVD player to HDMI IN 2, you must assign "HDMI2" to the "BD/DVD" input selector. Here are the default assignments. Input selector BD/DVD VCR/DVR CBL/SAT GAME AUX TV/CD PORT Default assignment HDMI1 ----HDMI2 HDMI3 ----- BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TV/ CD, PORT IN1, IN2: Select a corresponding component video input that the video component has been connected. - - - -: Select if you're not using the COMPONENT VIDEO OUT.

Note · If you connect a component (such as UP-A1 Dock that seated iPod) to the UNIVERSAL PORT jack, you cannot assign any input to PORT selector. Digital Audio (Digital Audio Input) Menu Digital Audio BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TV/ CD, PORT HDMI1, HDMI2, HDMI3: Select a corresponding HDMI input that the video component has been connected. - - - -: Select if you're not using the HDMI OUT. Each HDMI input cannot be assigned to two input selectors or more. When HDMI1 - HDMI3 have already been assigned, you must set first any unused input selectors to "- - - -", or you will be unable to assign HDMI1 - HDMI3 to input selector. Note · When an HDMI IN is assigned to an input selector as explained here, the digital audio input for that input selector is automatically set to the same HDMI IN (29, Digital Audio (Digital Audio Input)). · If you connect a component (such as UP-A1 Dock that seated iPod) to UNIVERSAL PORT jack, you cannot assign any input to PORT selector. · Do not assign the component connected with the HDMI input to TV/CD selector when you set "TV Control" setting to "On" (33). Otherwise, appropriate CEC (Consumer Electronics Control) operation will not be guaranteed. If you connect a component to a digital audio input, you must assign that input to an input selector.

For example, if you connect your CD player to the OPTICAL IN 1, you must assign "OPT1" to the "TV/CD" input selector. Here are the default assignments. Input selector BD/DVD VCR/DVR CBL/SAT GAME AUX TV/CD PORT Default assignment COAX -----OPT1 ----OPT2 ----- BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TV/ CD, PORT COAX, OPT1, OPT2: Select a corresponding digital audio input that the component has been connected. - - - -: Select if the component is connected to an analog audio input. En 29 Note · When an HDMI IN is assigned to an input selector in "HDMI Input" (29), this input assignment is automatically set to the same HDMI IN. And in addition to the usual inputs (e.g., COAX, etc.), you can also select HDMI inputs. ·

Available sampling rate for PCM signals from a digital input (optical and coaxial) is 32/44.

1/48/88.2/96 kHz/16, 20, 24 bit. · If you connect a component (such as UP-A1 Dock that seated iPod) to the UNIVERSAL PORT jack, you cannot assign any input to PORT selector. Sp Config (Speaker Configuration) Menu Sp Config Crossover (Crossover Frequency) This setting is advantageous for the speakers that you specified as "Small" in the "Sp Config (Speaker Configuration)" (30). To get the best bass performance from your speaker system, you need to set the crossover frequency according to the size and frequency response of your speakers.

40Hz, 50Hz, 60Hz, 80Hz, 100Hz, 120Hz, 150Hz, 200Hz: Use the diameter of the smallest speaker in your system when choosing the crossover frequency. Speaker cone diameter Over 20 cm 16 to 20 cm 13 to 16 cm 9 to 13 cm Under 9 cm * Crossover frequency 40/50/60 Hz* 80 Hz 100 Hz 120 Hz 150/200 Hz* This section explains how to specify which speakers are connected and their sizes. For speakers with a cone diameter larger than 16 cm, specify Large (full band). For those with a smaller diameter, specify Cone diameter Small (default crossover 120 Hz). The crossover frequency can be changed in the "Crossover (Crossover Frequency)" (30).

Note · Speaker Configuration, Crossover Frequency, and Double Bass settings cannot be changed while headphones are connected, or "Audio TV OUT" setting is set to "On" (32) or speaker set B is on. Choose the setting suitable for the speaker. Note · For a more accurate setting, look up the frequency response in the manuals supplied with your speakers and set accordingly. · Choose a higher crossover frequency if you want more sound from your subwoofer. Double Bass Note · This function can be set only if the "Subwoofer" setting is set to "Yes", and the "Front" setting is set to "Large" (30). Subwoofer Yes: Select if a subwoofer is connected. No: Select if no subwoofer is connected. Front Small: Large: Select based on the cone diameter. Note · If the "Subwoofer" setting is set to "No", this setting is fixed at "Large" and does not appear. With the Double Bass function, you can boost bass output by feeding bass sounds from the front left, right, and center channels to the subwoofer.

On: Double Bass function on. Off: Double Bass function off. Sp Distance (Speaker Distance) Menu Sp Distance Center*1*2, Surround*1*2 Small: Large: Select based on the cone diameter. None: Select if no speaker is connected. Note *1 *2 Here you can specify the distance from each speaker to the listening position so that the sound from each speaker arrives at the listener's ears as the sound designer intended.



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