



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO SKW-580. You'll find the answers to all your questions on the ONKYO SKW-580 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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User guide ONKYO SKW-580  
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Instruction manual ONKYO SKW-580

**ONKYO®**

7.1ch Home Theater System

## *HT-S5300*

AV Receiver (HT-R580)  
Speaker Package (HTP-580)  
Front Speakers (SKF-580 L/R)  
Center Speaker (SKC-580)  
Surround Speakers (SKR-580 L/R)  
Surround Back Speakers (SKB-580 L/R)  
Subwoofer (SKW-580)  
Universal Port Option Dock for iPod®  
(UP-A1)

**Instruction Manual**

Thank you for purchasing an Onkyo 7.1ch Home Theater System. 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 7.1ch Home Theater System. 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 (8") of free space at the top and sides and 10 cm (4") at the rear.

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

**AC Fuse--**The AC fuse inside the unit is not 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 U.S. models **FCC Information for User CAUTION:** The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. **NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.



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If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. 5. For Canadian Models NOTE: THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003. For models having a power cord with a polarized plug: CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

6. 7. Modèle pour les Canadien REMARQUE: CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB003 DU CANADA. Sur les modèles dont la fiche est polarisée: ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND. 8.

En 3 Speaker Precautions Placement · The subwoofer cabinet is made out of wood and is therefore sensitive to extreme temperatures and humidity, do not put it in locations subject to direct sunlight or in humid places, such as near an air conditioner, humidifier, bathroom, or kitchen. · Do not put water or other liquids close to the speakers. If liquid is spilled over the speakers, the drive units may be damaged. · Speakers should only be placed on sturdy, flat surfaces that are free from vibration. Putting them on uneven or unstable surfaces, where they may fall and cause damage, will affect the sound quality.

· Subwoofer is designed to be used in the upright vertical position only. Do not use it in the horizontal or tilted position. · If the unit is used near a turntable, CD player or Blu-ray Disc/DVD player, howling or slipping of sound may occur. To prevent this, move the unit away from the turntable, CD player or Blu-ray Disc/DVD player, otherwise lower the unit's output level. Package Contents Make sure you have the following items: AV Receiver HT-R580 HT-R580 ( 7) Remote controller and two batteries (AA/R6) ( 5) Indoor FM antenna ( 19) AM loop antenna ( 19) \* 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. Speaker Package HTP-580 Front speakers (SKF-580 L/R) ( 9) Center speaker (SKC-580) ( 9) Surround speakers (SKR-580 L/R) ( 9) Surround back speakers (SKB-580 L/R) ( 9) Subwoofer (SKW-580) ( 9) Speaker Package Accessories Speaker cables for front speakers 11 ft. (3.5 m) (White and Red) ( 13) Speaker cable for center speaker 10 ft. (3.

0 m) (Green) ( 13) Speaker cables for surround speakers 26 ft. (8.0 m) (Blue and Gray) ( 13) Speaker cables for surround back speakers 26 ft. (8.0 m) (Brown and Tan) ( 13) RCA cable for subwoofer connection 10 ft. (3.0 m) ( 13) 4 rubber spacers for center speaker ( 14) 4 floor pads for the subwoofer ( 14) Using Close to a TV or Computer TVs and computer monitors are magnetically sensitive devices and as such are likely to suffer discoloration or picture distortion when conventional speakers are placed nearby. To prevent this, the SKF-580 and SKC-580 feature internal magnetic shielding. In such situations, try moving the speakers away from your TV or monitor. If discoloration should occur, turn off your TV or monitor, wait 15 to 30 minutes, and then turn it back on again. This normally activates the degaussing function, which neutralizes the magnetic field, thereby removing any discoloration effects. Note that discoloration can also be caused by a magnet or demagnetizing tool that's too close to your TV or monitor. Do not place SKR-580 and SKB-580 close to TV or a computer monitor because they have no magnetic shield. Dock for iPod UP-A1 UP-A1 ( 47) \* Input Signal Warning The speakers can handle the specified input power when used for normal music reproduction. If any of the following signals are fed to them, even if the input power is within the specified rating, excessive current may flow in the speaker coils, causing burning or wire breakage: 1.

Interstation noise from an untuned FM radio. 2. Sound from fast-forwarding a cassette tape. 3. High-pitched sounds generated by an oscdot; 4 HDMI\*4 Inputs and 1 Output · Onkyo for System Control · 4 Digital Inputs (2 Optical/2 Coaxial) · Component Video Switching (2 Inputs/1 Output) · Front "Line in" Input for Portable audio player · Universal Port for the Dock for iPod\*/HD RadioTM\*5 tuner module (North American models)/DAB+ tuner module (Asian models) · Banana Plug-Compatible Speaker Posts · Powered Zone 2 · 40 FM/AM Presets · Audyssey EQ\*6 to Correct Room Acoustic Problems · Audyssey Dynamic EQ\*6 for Loudness Correction · Audyssey Dynamic Volume\*6 to Maintain Optimal Listening Level and Dynamic Range · 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 · Preprogrammed -Compatible Remote \*1 \*4 \*5 "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.

" The HD Radio Ready logo is a proprietary trademark of iBiquity Digital Corp. To receive HD Radio broadcasts, you must install an Onkyo UP-HT1 HD Radio tuner module (sold separately). \*6 Manufactured under license from Audyssey LaboratoriesTM. U.S. and foreign patents pending. Audyssey EQTM, Audyssey Dynamic VolumeTM and Audyssey Dynamic EQTM are trademarks of Audyssey Laboratories. \* \* \* \* iPod is a trademark of Apple Inc., registered in the U.S.

and other countries. iPhone is a trademark of Apple Inc. "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards. "Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. "x.v.Color" is a trademark of Sony Corporation. Speaker Package HTP-580 SKF-580 L/R 2-Way Front Speakers · 5" (12 cm) OMF cone woofer · 1" (2.5 cm) Balanced dome tweeter · Max.

input power: 130 W · Magnetically shielded · 6-ohm impedance · Color-coded speaker terminals and speaker cable SKC-580 2-Way Center Speaker · 3-1/4" (8 cm) cone woofer · 1" (2.



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5 cm) Balanced dome tweeter · Max. input power: 130 W · Magnetically shielded · 6-ohm impedance · Color-coded speaker terminals and speaker cable SKR-580 L/R Full-Range Surround Speakers SKB-580 L/R Full-Range Surround Back Speakers · 3-1/4" (8 cm) cone · Max. input power: 130 W · 6-ohm impedance · Color-coded speaker terminals and speaker cable SKW-580 Bass Reflex Powered Subwoofer · 10" (25 cm) cone woofer · Max. power: 290 W (Dynamic power) Manufactured under license under U.

S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS is a registered trademark and the DTS logos, Symbol, DTS-HD and DTSHD Master Audio are trademarks of DTS, Inc. ©1996-2008 DTS, Inc. All Rights Reserved. \*2 En \*3 Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Music Optimizer™ is a trademark of Onkyo Corporation. 6 Front & Rear Panels Front Panel North American models Asian models 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 ( 21) STANDBY indicator ( 21) HDMI THRU indicator ( 40) ZONE 2 indicator ( 45) Remote control sensor ( 5) ZONE 2, OFF, ZONE 2 LEVEL/TONE LEVEL and TONE buttons ( 43, 45 to 46) Display ( 8) LISTENING MODE buttons ( 28) DIMMER button (North American models) ( 22) MEMORY button ( 25) TUNING MODE button ( 24) DISPLAY button ( 22) SETUP button ( 33) TUNING, PRESET ( 24 to 25), arrow and ENTER buttons RETURN button MASTER VOLUME control ( 22) MUSIC OPTIMIZER button ( 22, 42) PHONES jack ( 23) Input selector buttons ( 22) AUX INPUT LINE IN jack ( 18) AUX INPUT VIDEO jack ( 18) AUX INPUT AUDIO jacks ( 18) RT/PTY/TP button (Asian models) ( 26) En 7 Display For detailed information, see the pages in parentheses. Audio input indicators Listening mode and format indicators ( 22, 28) Audyssey indicators ( 37) Tuning indicators ( 24) RDS indicator (excluding North American models) ( 25) SLEEP indicator ( 23) MUTING indicator ( 23) Message area Rear Panel DIGITAL IN COAXIAL and OPTICAL jacks HDMI IN and OUT jacks COMPONENT VIDEO IN and OUT jacks FM ANTENNA jack and AM ANTENNA terminal MONITOR OUT V jack UNIVERSAL PORT jack SPEAKERS terminals (CENTER, FRONT, SURR, SURR BACK OR FRONT HIGH) 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) ZONE 2 LINE OUT jacks SUBWOOFER PRE OUT jack FRONT HIGH OR ZONE 2 SPEAKERS terminals See "Connecting the AV Receiver" for connection information ( 12 to 20).

En 8 Speaker Package Subwoofer (SKW-580) For detailed information, see the pages in parentheses. Front Rear (North American models) STANDBY/ON indicator Red: Blue: Subwoofer in standby mode Subwoofer on To AC outlet (Asian models) With the Auto Standby function, the SKW-580 automatically turns on when an input signal is detected in Standby mode. When there's no input signal for a while, the SKW-580 automatically enters Standby mode. OUTPUT LEVEL control ( 21, 22) This control is used to adjust the volume of the subwoofer. LINE INPUT ( 13) This RCA input should be connected to the subwoofer pre out on the AV receiver with supplied RCA cable. To AC outlet Note · The Auto Standby function turns the subwoofer on when the input signal exceeds a certain level. If the Auto Standby function does not work reliably, try slightly increasing or decreasing the subwoofer output level on the AV receiver ( 36). Front, Center, Surround and Surround Back Speakers (SKF-580, SKC-580, SKR-580, SKB-580) SKF-580 SKR-580/SKB-580 Front Rear Front Rear Keyhole slots These keyhole slots can be used to wall-mount the speaker. See "Wall Mounting" for mounting instructions ( 14). Speaker terminals These push terminals are for connecting the speaker to the HT-R580 with the supplied speaker cables.

The supplied speaker cables are color-coded for easy identification. Simply connect each cable to the same-colored positive speaker terminal. Caution SKC-580 Front Rear · The front grilles are not designed to be removed so do not attempt to remove them forcibly, as this will damage them. En 9 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 ( 51). \*1 For detailed information, see the pages in parentheses. ON/STANDBY button ( 21) REMOTE MODE/INPUT SELECTOR buttons ( 22) SP LAYOUT button ( 23) \*2 Arrow / / and ENTER buttons SETUP button ( 33) LISTENING MODE buttons ( 28) DIMMER button ( 22) DISPLAY button ( 22) MUTING button ( 23) VOL / button ( 22) RETURN button AUDIO button ( 41) SLEEP button ( 23) 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 ( 24) D.

TUN button ( 24) DISPLAY button CH +/- button ( 25) Number buttons ( 24) \*1 \*2 To control component, you must first enter remote control code. See "Entering Remote Control Codes" for more details ( 51). VIDEO is not used for this model. En 10 About Home Theater 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. With Blu-ray Discs, you can enjoy DTS and Dolby Digital. With analog or digital TV, you can enjoy Dolby Pro Logic IIx, DTS Neo:6, or Onkyo's original DSP listening modes. Front speakers (SKF-580) 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 (SKC-580) 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. Surround speakers (SKR-580) 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 2 to 3 feet (60 to 100 cm) above ear level. Ideally they should be equidistant from the listener. Surround back speakers (SKB-580) These speakers are necessary to enjoy Dolby Digital EX, DTS-ES Matrix, DTS-ES Discrete, etc.



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They enhance the realism of surround sound and improve sound localization behind the listener. Position them behind the listener about 2 to 3 feet (60 to 100 cm) above ear level. Front high speakers (Optional) These speakers are necessary to enjoy Dolby Pro Logic IIz Height, etc.

They enhance significantly the spatial experience. Position them at least 3.3 feet (100 cm) above the front speakers (and as high as possible). Although it is acceptable to left and right place at an angle slightly wider than the front speakers. Ideally they should be positioned directly above the front speakers.

Subwoofer (SKW-580) 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. Corner position 1/3 of wall position 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. En 11 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 7.1-channel surround-sound playback, you need seven speakers and a powered subwoofer. Number of channels Front speakers Center speaker Surround speakers Surround back speaker\*1\*2 Surround back speakers\*2\*3 \*1 \*2 \*3 · 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. 234567789 If you're using only one surround back speaker, connect it to the SURR BACK OR FRONT HIGH L terminals. Front high and surround back speakers cannot be used at the same time. When you connect the front high left and right speakers, prepare for it separately, or use the surround back left and right speakers. If you use 4 or 5 speakers, connect each of the two surround speakers to the SURR L/R terminals.

Do not connect them to the SURR BACK OR FRONT HIGH L/R or FRONT HIGH OR ZONE 2 L/R terminals. 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 ( 35). · 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 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.

· 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. En 12 Connecting the Speaker Cables Screw-type speaker terminals Strip 1/2" to 5/8" (12 to 15 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown.

(Supplied speaker cables are already stripped.) 1/2" to 5/8"(12 to 15 mm) Using Banana Plugs (North American models) · If you are using banana plugs, tighten the speaker terminal before inserting the banana plug. · Do not insert the speaker code directly into the center hole of the speaker terminal. 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. (Supplied speaker cables are already stripped.

) 3/8" to 1/2"(10 to 12 mm) The following illustration shows which speaker should be connected to each pair of terminals. If you're using only one surround back speaker, connect it to the SURR BACK OR FRONT HIGH L terminals. Front right speaker Front left speaker Surround back right speaker Surround back left speaker Surround right speaker Surround left speaker Center speaker Tan Brown Gray Blue Red White Green Front high right speaker (Optional) Front high left speaker (Optional) Powered subwoofer \* Using the supplied RCA cable, connect the subwoofer's LINE INPUT jack to your AV receiver's SUBWOOFER PRE OUT jack. En 13 Wall Mounting The speakers can easily be wall mounted by using the keyhole slots. To prevent the speaker from vibrating against the wall, attach two of the supplied thick rubber stoppers to the rear of each speaker. To mount the front, surround and surround back speakers vertically, use the keyhole slot shown to hang each speaker on a screw that's securely screwed into the wall. Front speakers (SKF-580) Keyhole slot for wall mounting Caution · A mounting screw's ability to support a speaker depends on how well it's anchored to the wall. If you have hollow walls, screw each mounting screw into a stud. If there are no studs, or the walls are solid, use suitable wall anchors. · Use screws with a head diameter of 5/16" (9 mm) or less and a shank diameter of 1/8" (4 mm) or less.

With hollow walls, use a cable/pipe detector to check for any power cables or water pipes before making any holes. · Leave a gap of between 3/16" (5 mm) and 7/16" (10 mm) between the wall and the base of the screw head, as shown. (We recommend that you consult a home installation professional.) Wall 3/16" to 7/16" (5 mm to 10 mm) Using the Rubber Stoppers for a More Stable Platform We recommend using the provided rubber stoppers to achieve the best possible sound from your speakers. The rubber stoppers prevent the speakers from moving, providing a more stable platform. Use thick stoppers for the center speaker. Thick rubber stoppers Surround speakers/Surround back speakers (SKR-580/SKB-580) Keyhole slot for wall mounting To mount the center speaker horizontally, use the two keyhole slots shown to hang each speaker on two screws that are securely screwed into the wall. Center speaker (SKC-580) Keyhole slot for wall mounting Bottom of the SKC-580 Using the Floor Pads for Subwoofer If the subwoofer is placed on a hard floor (wood, vinyl, tile, etc.



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) and playback is very loud, the subwoofer's feet may damage the flooring. To prevent this, place the supplied pads underneath the subwoofer's feet. The pads also provide a stable base for the subwoofer. 7-7/8" (200 mm) Pad En 14 About AV Connections Connected image with AV components HDMI cable : Video & Audio Other cables : Video : Audio AV receiver AV receiver TV, projector, etc. Blu-ray Disc/ DVD player 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 (PB/CB, PR/CR), 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\*, Dolby Digital or DTS. The audio quality is the same as coaxial. Coaxial digital connections allow you to enjoy digital sound such as PCM\*, Dolby Digital or DTS. The audio quality is the same as optical. 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) 1/8" (3.5 mm) Stereo mini plug \* L Yellow OPTICAL Orange White Red R This cable carries analog audio. 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 15 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 Connect your components to the appropriate jacks. The default input assignments are shown below. : Assignment can be changed ( 34). Jack Input HDMI IN 1 HDMI IN 2 HDMI IN 3 HDMI IN 4 Output HDMI

OUT Signal Audio/Video Components Blu-ray Disc/DVD player VCR or DVD recorder/Digital Video Recorder Satellite, cable, set-top box, etc. Game console TV, projector, etc. Assignable Refer to "About HDMI" ( 60) and "Using an RIHD-compatible TV, Player, or Recorder" ( 61).

Tip To listen to audio received by the HDMI IN jacks through your TV's speakers: · · · · Set the "TV Control" setting to "On" ( 41) for an -compatible TV. Set the "Audio TV OUT" setting to "On" ( 40) 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" ( 17). 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" ( 40) 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" ( 41) 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" ( 40). En 16 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 ( 34). No. Jack COMPONENT VIDEO DIGITAL IN IN 1 (BD/DVD) IN 2 (CBL/SAT) OUT OPTICAL COAXIAL MONITOR OUT BD/DVD IN VCR/DVR IN CBL/SAT IN GAME IN TV/CD IN UNIVERSAL PORT Analog audio Analog audio/ Video IN 1 (GAME) IN 2 (TV/CD) IN 1 (BD/DVD) IN 2 (CBL/SAT) Composite video Digital audio Signal Component video 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 Satellite, cable, set-top box, etc. TV, projector, etc. Assignable 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 TV, CD player, Turntable\*1 Cassette tape deck, MD, CD-R Universal port optional dock (UP-A1 etc.) \*1 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. · With connection , you can listen and record audio from the external components while you are in Zone 2. You can listen and record audio from the external components in the main room; you can listen to the audio in Zone 2 as well.

· With connection , you can enjoy Dolby Digital and DTS. (To record or listen in Zone 2 as well, use and .



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) · 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 . How to record the video With the connections described above, you cannot record the video through the AV receiver. To make a connection for video recording ( 27). En 17 Using the AUX INPUT jacks on the front panel Analog audio line output ( 15) Composite video output Analog audio L/R outputs Portable audio player Note Camcorder, etc. · When you connect to both AUX INPUT AUDIO jacks and AUX INPUT LINE IN jack at the same time, AUX INPUT LINE IN jack will be given a higher priority. · The AV receiver can output audio and video signals from the AUX INPUT jacks to the VCR/DVR OUT jacks. 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. · While Zone 2 is on, the System On/Auto Power On and Direct Change functions do not work. IN L R TV/CD Step 1: Make sure that each Onkyo component is connected with an analog audio cable (connection in the hookup examples) ( 17). 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 ( 23). 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 ( 51). 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 En 18 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. North American models Asian models Insert the plug fully into the jack. Insert the plug fully into the jack. Push.

Insert wire. Release. Assembling the AM loop antenna Thumbtacks, etc. Indoor FM antenna (supplied) AM loop antenna (supplied) Caution · Be careful that you don't injure yourself when using thumbtacks. 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 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. Composite Video Signal Flow Chart Blu-ray Disc/DVD player, etc. 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 ( 40).

This setting is available, when "Audio Return Ch" setting is set to "Auto" ( 40), you must select the TV/CD input selector and your TV must support ARC function. En 20 Turning On/Off the AV Receiver ON/STANDBY STANDBY indicator ON/STANDBY RECEIVER OUTPUT LEVEL control MIN MAX OUTPUT LEVEL Subwoofer's rear panel 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 21 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. (Components connected to the UNIVERSAL PORT jack are excluded.) Press RECEIVER followed by DISPLAY repeatedly to cycle through the available information. Tip Playing the Connected Component Operating on the AV receiver 1 2 Use the input selector buttons to select the input source.



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Start playback on the source component. See also: · "Controlling Other Components" ( 51) · "Controlling iPod" ( 47) · "Listening to the Radio" ( 24) To adjust the volume, use the MASTER VOLUME control. Select a listening mode and enjoy! See also: · "Using the Listening Modes" ( 28) · "Audyssey Settings" ( 37) \*1 \*2 · Alternatively, you can use the AV receiver's DISPLAY.

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" ( 39). Operating with the remote controller 1 2 Press RECEIVER followed by INPUT SELECTOR. Start playback on the source component. See also: · "Controlling Other Components" ( 51) · "Controlling iPod" ( 47) · "Listening to the Radio" ( 24) To adjust the volume, use VOL /.

Select a listening mode and enjoy! See also: · "Using the Listening Modes" ( 28) · "Audyssey Settings" ( 37) \*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 ( 42). Note · When the subwoofer volume level is set to a positive (+) value, the maximum master volume level is reduced proportionally. To set the level of the subwoofer, use the OUTPUT LEVEL control. Because our ears are less sensitive to very low bass sounds, there's a temptation to set the level of the subwoofer too high. As a rule of thumb, set the subwoofer level to what you think is the optimal level, and then back it off slightly.

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. Tip · Alternatively, you can use the AV receiver's DIMMER (North American models). En 22 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. 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 (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. (The Powered Zone 2 speakers are not turned off.) · When you connect a pair of headphones, the listening mode is set to Stereo, unless it's already set to Stereo, Mono or Direct. · Only the Stereo, Direct, and Mono listening modes can be used with headphones. 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 ( 51).

Selecting Speaker Layout You can select the priority of the use of front high or surround back speakers. Press RECEIVER followed by SP LAYOUT repeatedly. FrontHigh: The sound from front high speakers is output by priority. SurroundBack: The sound from surround back speakers is output by priority. Note · If the Powered Zone 2 is being used ( 45), this setting cannot be selected. · When the listening mode that doesn't support front high or surround back speakers is used, the setting cannot be selected. En 23 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. This model changes FM/AM frequency in 200/10kHz (or 50/9kHz) steps. In manual tuning mode, FM stations will be in mono. 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 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.



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Tuning into stations by frequency You can tune into AM and FM stations directly by entering the appropriate frequency. 1 On the remote controller, press TUNER repeatedly to select "AM" or "FM", followed by D.TUN. (Actual display depends on the country.) Tuning into Radio Stations Auto tuning mode (Actual display depends on the country).

) 2 1 2 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. 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 AUTO TUNED En 24 Presetting FM/AM Stations You can store a combination of up to 40 of your favorite FM/AM radio stations as presets. Using RDS (excluding North American models) RDS works only in areas where RDS broadcasts are available. When tuned into an RDS station, the RDS indicator lights. 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 ( 26). TP (Traffic Program) This allows you to search for RDS radio stations that broadcast traffic information ( 26). 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. En 25 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. 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! 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 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 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. 2 En 26 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 AUX INPUT VIDEO jack 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.



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· 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 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 4 5 Prepare the camcorder and CD player for playback.

Prepare the VCR for recording. Press AUX 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. 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 27 Using the Listening Modes Selecting Listening Modes See "About Listening Modes" for detailed information about the listening modes ( 29). Listening Mode Buttons Press RECEIVER first. MOVIE/TV, MUSIC, GAME MUSIC MOVIE/TV GAME STEREO 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" ( 22). · While a pair of headphones is connected, you can select the following listening modes: Mono, Direct, and Stereo. En 28 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 SP LAYOUT Front speakers LISTENING MODE Center speaker Surround speakers

Surround back speakers Front high speakers Subwoofer 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).

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. This is DTS-ES surround sound.

This surround system can produce a discrete or a matrix-encoded sixth channel from existing DTS 5.1 encoded material. This is Dolby Digital EX surround sound. This provides a center back surround channel from 5.1-channel sources.

Speaker Layout The illustration shows which speakers are activated in each channel. See "Sp Config (Speaker Configuration)" for the speaker setup ( 35).

Press RECEIVER followed by SP LAYOUT repeatedly to select front high or surround back speakers. En 29 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 ( 33). Input Source Speaker Layout \*1 Direct Stereo Sound is output by the front left and right speakers and subwoofer. 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 IIx\*2 Dolby Pro Logic IIx expands any 2-channel source for 7.1-channel playback. It provides a very natural and seamless surround-sound experience that Dolby Pro Logic II fully envelops the listener. As well as music and movies, video games can also benefit from the dramatic spatial effects and vivid imaging. If you're not using any surround back speakers, Dolby Pro Logic II will be used instead PL Music of Dolby Pro Logic IIx. · Dolby PLIIx Movie Use this mode with any stereo or Dolby Surround (Pro Logic) movie (e.g., PL Game TV, DVD, VHS). ·

Dolby PLIIx Music PLx Movie Use this mode with any stereo or Dolby Surround (Pro Logic) music source (e.g.

, CD, radio, cassette, TV, VHS, DVD). PLx Music · Dolby PLIIx Game Use this mode with video games, especially those that bear the Dolby Pro PLx Game Logic II logo. · Dolby PLIIx Movie, Dolby PLIIx Music These modes use the Dolby Pro Logic IIx modes to expand 5.1-channel sources for 7.1-channel playback.

Dolby Pro Logic IIz Height Dolby Pro Logic IIz Height is designed to more effectively use existing program material when height channel speaker outputs are present. Dolby Pro Logic IIz Height can be used to upmix a variety of sources from movies and music, but are particularly well-suited to upmix game content. These modes expand 5.1-channel sources for 6.1/7.

1-channel playback. They're especially suited to Dolby EX soundtracks that include a matrixencoded surround back channel. The additional channel adds an extra dimension and provides an enveloping surround sound experience, perfect for rotating and fly-by sound effects. \*3 PLz Height Dolby EX \*4 Dolby

Dolby EX DEX En 30 Listening Mode Dolby Digital Description 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 ( 33). Input Source Speaker Layout Dolby Digital Plus\*5 Dolby D+ \*1 Dolby TrueHD True HD DTS \*1 DTS DTS-HD High Resolution Audio \*1 DTS HD HR \*1 DTS-HD Master Audio DTS HD MSTR DTS Express DTS DSD\*6 Express DSD DTS 96/24\*7 This mode is for use with DTS 96/24 sources.



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