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You can read the recommendations in the user guide, the technical guide or the installation guide for PIONEER VSX-2021. You'll find the answers to all your questions on the PIONEER VSX-2021 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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Pioneer

Operating Instructions

audio/video multi-channel receiver

VSX-LX55
VSX-2021-K



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Manual abstract:

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. @ @A 10 amp fuse is fitted in this plug. @@ Check for the ASTA mark or the BSI mark on the body of the fuse. If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be obtained from your local dealer. If the fitted moulded plug is unsuitable for your socket outlet, then the fuse shall be removed and the plug cut off and disposed of safely. There is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket. @@ If in any doubt, please consult a qualified electrician. @@@@ To prevent a fire or shock hazard, do not place any container filled with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture.

D3-4-2-1-3_A1_En **Operating Environment** Operating environment temperature and humidity: +5 °C to +35 °C (+41 °F to +95 °F); less than 85 %RH (cooling vents not blocked) Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light) D3-4-2-1-7c*_A1_En Before plugging in for the first time, read the following section carefully. The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230 V or 120 V) written on the rear panel.

D3-4-2-1-4*_A1_En **WARNING** To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment.

D3-4-2-1-7a_A1_En **WARNING** Information for users on collection and disposal of old equipment and used batteries Symbol for equipment These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation. Symbol examples for batteries By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

These symbols are only valid in the European Union. For countries outside the European Union: If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal. K058a_A1_En **VENTILATION CAUTION** When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 40 cm at top, 10 cm at rear, and 20 cm at each side). **WARNING** Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, table-cloths, curtains) or by operating the equipment on thick carpet or a bed.

D3-4-2-1-7b*_A1_En If the AC plug of this unit does not match the AC outlet you want to use, the plug must be removed and appropriate one fitted.

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. If connected to an AC outlet, the cut-off plug can cause severe electrical shock. Make sure it is properly disposed of after removal. The equipment should be disconnected by removing the mains plug from the wall socket when left unused for a long period of time (for example, when on vacation).

D3-4-2-2-1a_A1_En **CAUTION** The **STANDBY/ON** switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation). D3-4-2-2-2a*_A1_En **Pb** This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period. K041_A1_En 2 En Thank you for buying this Pioneer product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference. Contents 01 Before you start Our philosophy.

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Handling the CD-ROM 30° 30° Operating Environment ! This CD-ROM can be used with Microsoft® Windows® XP/Vista/7.

! A browser is at times used for AVNavigator functions. The supported browser is Microsoft Internet Explorer 6, 7 and 8. With other browsers, some functions may be limited or the display may not appear properly. AVNavigator includes the following functions: ! Wiring Navi Guides you through connections and initial settings in dialog fashion. High precision initial settings can be made easily. ! Interactive Manual Automatically displays the pages explaining the functions that have been operated on the receiver. It is also possible to operate the receiver from the Interactive Manual. ! Glossary Displays glossary pages. ! MCACC Appli Displays Advanced MCACC measurement results vividly on the computer. There are special operating instructions for MCACC Application.

These instructions are included in the AVNavigator Interactive Manual's menus. Refer to them when using MCACC Application. ! Software Update Allows various types of software to be updated. ! Settings Used to make various AVNavigator settings. ! Detection Used to detect the receiver. Note To use the AVNavigator of another model, first uninstall (delete) this receiver's AVNavigator, then install the AVNavigator of the other model. 7m 6 En Before you start 01 Deleting the AVNavigator You can use the following method to uninstall (delete) the AVNavigator from your PC. % Delete from the Control Panel of the PC. From the Start menu, click "Program" d "PIONEER CORPORATION" d "AVNavigator(VSX-LX55 or VSX-2021)" d "Uninstall". En 7 02 Controls and displays Controls and displays Remote control This section explains how to operate the remote control for the receiver.

The remote has been conveniently color-coded according to component control using the following system: ! White Receiver control, TV control ! Blue Other controls (See pages 30, 31, 33, 34 and 57.) 8 i/j/k/l/ENTER 10 MULTI-ZONE select buttons Switch to perform operations in ZONE 2 and ZONE 3 (page 51).

Use the arrow buttons when setting up your surround sound system (see page 60) and the Audio or Video options (page 48 or 50). 11 Remote control LED Lights when a command is sent from the remote control. 9 Receiver Control buttons 1 2,3 4 5 RECEIVER MULTI OPERATION RCU SETUP BDR BD SAT TV USB iPod TUNER VIDEO CD HMG DVD DVR SOURCE 11 HDMI ADPT OPTION 1 u RECEIVER This switches between standby and on for this receiver.

INPUT SELECT TV CTRL RECEIVER 12 13 14 2 MULTI OPERATION INPUT TV CONTROL MASTER VOLUME Use this button to perform multi operations (page 56). 3 RCU SETUP 6 7 8 CH VOL MUTE 15 AUDIO PARAMETER LIST TOP MENU BAND PRESET PTY SEARCH HOME MENU iPod CTRL TUNE ENTER VIDEO PARAMETER TUNE TOOLS T.EDIT GUIDE PRESET Use to input the preset code when making remote control settings and to set the remote control mode (page 54). 4 Input function buttons RETURN Press to select control of other components (page 54). Use INPUT SELECT c/ d to select the input function (page 30).

AUTO / ALC / PGM MENU DIRECT STEREO STANDARD ADV SURR 5 TV CTRL HDD THX DVD PHASE CTRL STATUS Set the preset code of your TV's manufacturer when controlling the TV (page 54). TV / DTV MPX PQLS 9 1 4 7 D.ACCESS / CLR 6 AUDIO INFO DISP TV CONTROL buttons HDMI OUT 2 5 8 0 ZONE 3 3 SLEEP SIGNAL SEL MCACC These buttons are dedicated to control the TV assigned to the TV CTRL button. 6 DIMMER CH LEVEL A.ATT 9 CLASS ENTER LIGHT 7 Receiver setting buttons CH 10 ZONE 2 16 RECEIVER Press first to access: ! AUDIO PARAMETER Use to access the Audio options (page 48). ! VIDEO PARAMETER Use to access the Video options (page 50). ! HOME MENU Use to access the Home Menu (pages 26, 28, 45, 60 and 67). ! RETURN Press to confirm and exit the current menu screen. 8 Press first to access: ! AUTO/ALC/DIRECT Switches between Auto Surround (page 36), Auto Level Control, Optimum Surround mode and Stream Direct mode (page 37). ! STEREO Press to select stereo playback mode (page 36).

! STANDARD Press for Standard decoding and to switch various modes (2 Pro Logic, Neo:6, etc.) (page 36). ! ADV SURR Use to switch between the various surround modes (page 37). ! THX Press to select a Home THX listening mode (page 37). ! PHASE CTRL Press to switch on/off Phase Control (page 38). Full Band Phase Control can also be switched (page 38). ! STATUS Press to check selected receiver settings (page 53). ! PQLS Press to select the PQLS setting (page 46). ! HDMI OUT Switch the HDMI output terminal (page 52). ! SIGNAL SEL Use to select an input signal (page 38). ! MCACC Press to switch between MCACC presets (page 38). ! SLEEP Use to put the receiver in sleep mode and select the amount of time before sleep (page 52). ! CH LEVEL Press repeatedly to select a channel, then use k/l to adjust the level (page 68). ! A.ATT Attenuates (lowers) the level of an analog input signal to prevent distortion (page 52).

! DIMMER Dims or brightens the display (page 52). 12 OPTION The preset codes of desired devices can be registered in the remote control and button operations can be registered using the learning mode. 13 Switches the remote to control the receiver (used to select the white commands). Switch to perform operations in the main zone. Also use this button to set up surround sound.

14 MASTER VOLUME +/- Use to set the listening volume. 15 MUTE Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound). 16 LIGHT Press to turn on/off the illumination for the buttons. The way the buttons light can be selected from four modes (page 56). En Controls and displays 02 Display 1 AUTO 7 2 L SL XL C XC LFE R SR XR (PHASE CONTROL) 17 Matrix decoding format indicators ! 2PRO LOGIC IIx This lights to indicate 2 Pro Logic II / 2 Pro Logic IIx decoding (page 36). ! Neo:6 When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing (page 36). 3 4 5 6 7 8 9 10 11 12 13 14 Lights when the Phase Control (page 38) or Full Band Phase Control (page 38) is switched on. HDMI DIGITAL ANALOG 2DIGITAL PLUS DSD PCM FULL BAND TUNED RDS 2TrueHD MULTI-ZONE PQLS ALC ATT STEREO DTS HD ES 96/24 S.RTRV SOUND UP MIX OVER MONO 8 dB Analog signal indicators Light to indicate reducing the level of an analog signal (page 52).



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MSTR CD TUNER iPod AUTO SURROUND STREAM DIRECT 2PROLOGIC x Neo:6 THX ADV.

SURROUND STANDARD SP AB SLEEP DVD TV BD DVR VIDEO HMG USB HDMI [2] [3] [4] 9 SOUND Lights when the DIALOG E (Dialog Enhancement) or TONE (tone controls) features is selected (page 48). 20 18 S.RTRV Lights when the Auto Sound Retriever function is active (page 48). 6 15 16 17 18 19 10 Tuner indicators ! TUNED Lights when a broadcast is being received. ! STEREO Lights when a stereo FM broadcast is being received in auto stereo mode. ! MONO Lights when the mono mode is set using MPX. ! RDS Lights when an RDS broadcast is received. 19 Character display Displays various system information. 1 Signal indicators Light to indicate the currently selected input signal. AUTO lights when the receiver is set to select the input signal automatically (page 38).

2 Program format indicators Light to indicate the channels to which digital signals are being input. ! L/R Left front/Right front channel ! C Center channel ! SL/SR Left surround/Right surround channel ! LFE Low frequency effects channel (the () indicators light when an LFE signal is being input) ! XL/XR Two channels other than the ones above ! XC Either one channel other than the ones above, the mono surround channel or matrix encode flag ! 96/24 Lights with DTS 96/24 decoding. ! DSD PCM Light during DSD (Direct Stream Digital) to PCM conversion with SACDs. ! PCM Lights during playback of PCM signals. ! MSTR Lights during playback of DTS-HD Master Audio signals.

20 Remote control mode indicator Lights to indicate the receiver's remote control mode setting. (Not displayed when set to 1.) (page 72) 4 MULTI-ZONE Lights when the MULTI-ZONE feature is active (page 51). 11 Lights when the sound is muted. 5 FULL BAND Lights when the Full Band Phase Control is switched on (page 38).

12 Master volume level Shows the overall volume level. "---" indicates the minimum level, and "+12dB" indicates the maximum level. 6 Listening mode indicators 3 Digital format indicators Light when a signal encoded in the corresponding format is detected. ! 2 DIGITAL Lights with Dolby Digital decoding. ! 2 DIGITAL PLUS Lights with Dolby Digital Plus decoding. ! 2 TrueHD Lights with Dolby TrueHD decoding. ! DTS Lights with DTS decoding. ! DTS HD - Lights with DTS-HD decoding. ! AUTO SURROUND Lights when the Auto Surround feature is switched on (page 36). ! ALC Lights when the ALC (Auto level control) mode is selected (page 36).

! STREAM DIRECT Lights when Direct/Pure Direct is selected (page 37). ! ADV.SURROUND Lights when one of the Advanced Surround modes has been selected (page 37). ! STANDARD Lights when one of the Standard Surround modes is switched on (page 36). ! THX Lights when one of the Home THX modes is selected (page 37). 13 Input function indicators Light to indicate the input function you have selected. 14 Scroll indicators Light when there are more selectable items when making the various settings. 15 Speaker indicators Lights to indicate the current speaker system using SPEAKERS (page 51). 16 SLEEP Lights when the receiver is in sleep mode (page 52). En 9 02 Controls and displays Front panel 1 2 3 4 3 5 6 5 Remote sensor Receives the signals from the remote control (page 6).

6 7 MASTER VOLUME dial Front panel controls ADVANCED MCACC FL OFF HDMI iPod iPhone iPad To access the front panel controls, catch the sides of the door with your fingers and pull forward. ! STANDARD SURROUND Press for Standard decoding and to switch various modes (2 Pro Logic, Neo:6, Stereo etc.) (page 36). ! ADVANCED SURROUND Use to switch between the various surround modes (page 37). ! HOME THX Press to select a Home THX listening mode (page 37).

15 HOME MENU INPUT SELECTOR MASTER VOLUME INPUT SELECTOR Use to access the Home Menu (page 26, 28, 45, 60 and 67). STANDBY/ON Press to confirm and exit the current menu screen. MASTER VOLUME 17 TUNER controls ! BAND Switches between AM and FM radio bands (page 33). ! TUNER EDIT Use with TUNE i/j, PRESET k/l and ENTER to memorize and name stations for recall (page 33). 8 AUDIO PARAMETER 9 10 TUNE 11 SPEAKERS 12 MULTI-ZONE CONTROL ON/OFF 13 iPod iPhone iPad DIRECT CONTROL AUTO SURR/ALC/STREAM DIRECT 14 ADVANCED SURROUND STANDARD SURROUND HOME THX 8 9 AUDIO PARAMETER i/j/k/l (TUNE/PRESET) /ENTER Use to access the Audio options (page 48).

Use the arrow buttons when setting up your Home Menu. Use TUNE i/j to find radio frequencies and use PRESET k/l to find preset stations (page 33). VIDEO PARAMETER 18 PHONES jack Use to connect headphones. When the headphones are connected, there is no sound output from the speakers. 7 ENTER PRESET PRESET BAND PHONES HOME MENU TUNE RETURN TUNER EDIT MCACC SETUP MIC 5V USB 2.1 A HDMI 3 INPUT 10 VIDEO PARAMETER iPod iPhone iPad 19 MCACC SETUP MIC jack Use to connect the supplied microphone (page 26). Use to access the Video options (page 50). 15 1 u STANDBY/ON 16 17 18 19 20 21 11 SPEAKERS Use to change the speaker terminal (page 51). 20 iPod iPhone iPad USB terminals Use to connect your Apple iPod/iPhone/iPad as an audio and video source (page 22), or connect a USB device for audio and photo playback (page 23). This switches between standby and on for this receiver.

2 3 INPUT SELECTOR dial Indicators Use to select an input function. ! ADVANCED MCACC Lights when EQ is set to ON in the AUDIO PARAMETER menu (page 48). ! FL OFF Lights when "off" (nothing displayed) is selected with the display's dimmer adjustment (page 52). ! HDMI Blinks when connecting an HDMI-equipped component; lights when the component is connected (page 17). ! iPod iPhone iPad Lights to indicate iPod/iPhone/iPad is connected (page 22). 12 MULTI-ZONE controls If you've made MULTI-ZONE connections (page 21) use these controls to control the sub zone from the main zone (page 51). 13 iPod iPhone iPad DIRECT CONTROL Change the receiver's input to the iPod and enable iPod operations on the iPod (page 31). 21 HDMI input connector Use for connection to a compatible HDMI device (Video camera, etc.) (page 23). 14 Listening mode buttons ! AUTO SURR/ALC/STREAM DIRECT Switches between Auto Surround (page 36), Auto Level Control, Optimum Surround mode and Stream Direct mode (page 37).

4 Character display See Display on page 9. 10 En Connecting your equipment 03 Connecting your equipment Connecting your equipment This receiver provides you with many connection possibilities, but it doesn't have to be difficult.



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This chapter explains the kinds of components you can connect to make up your home theater system. Note ! The input functions below are assigned by default to the receiver's different input terminals. Refer to The Input Setup menu on page 28 to change the assignments if other connections are used.

Input function BD Input Terminals HDMI (BD) IN 5 COAX-1 OPT-1 IN 6 IN 4 IN 1 IN 2 IN 3 COAX-2 OPT-2 OPT-3 IN 2 IN 1 Digital Component CAUTION ! Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step. ! When making connections, also keep the power cords of the devices being connected unplugged from the power outlets. ! Depending on the device being connected (amplifier, receiver, etc.), the methods of connection and terminal names may differ from the explanations in this manual.

Also refer to the operating instructions of the respective devices. DVD TV/SAT DVR/BDR VIDEO HDMI 1 HDMI 2 HDMI 3 (front panel) CD IN 4 (VIDEO) IN 5 (DVD) IN 6 (DVR/BDR) OUT 1 (CONTROL) DC OUTPUT Rear panel HDMI ASSIGNABLE IN 1 IN 2 BD IN ADAPTER PORT (10/100) OUT 2 16 for WIRELESS LAN (OUTPUT 5V 0.6 A MAX) LAN (OUTPUT 5 V 0.1 A MAX) AC IN ASSIGNABLE COMPONENT VIDEO PB PR MONITOR OUT COAXIAL ASSIGNABLE OPTICAL IN 1 ASSIGNABLE Y (DVD) (DVR/ BDR) IN 1 (DVD) IN 1 (CD) IN 2 (TV/SAT) (DVR/BDR) (VIDEO) IN 2 IN 3 OUT VIDEO ZONE 2 ZONE 3 OUT OUT DVD IN TV/SAT IN VIDEO IN DVR/BDR IN OUT CD IN FRONT 1 SUBWOOFER 2 SURROUND SURR BACK FH / FW (Single) ! The CU-RF100 omni-directional remote control (separately sold) can be connected to the RS-232C and EXTENSION terminals. Using the CU-RF100 lets you display the receiver's display information on the remote control display in your hands and operate it without worrying about obstacles or the direction in which the remote control is pointing. ANTENN RS-232C AM LOOP IN 2 PRE OUT L AUDIO MONITOR OUT R ANTENNA RS-232C AM LOOP FM UNBAL 75 CENTER SPEAKERS A R FRONT L CENTER R SURROUND L R SURROUND BACK L(Single) FRONT HEIGHT / FRONT WIDE / B R L IN OUT IN 1 IR IN 2 OUT 1 (OUTPUT 5 V 150 mA MAX) CO EXTENSION 2 (OUTPUT 12 V TOTAL 150 mA MAX) (OUTPUT 5 V 150 mA MAX) CONTROL EXTENSION 12 V TRIGGER En 11 03 Connecting your equipment Determining the speakers' application This unit permits you to build various surround systems, in accordance with the number of speakers you have. ! Be sure to connect speakers to the front left and right channels (L and R). ! It is also possible to only connect one of the surround back speakers (SB) or neither. ! If you have two subwoofers, the second subwoofer can be connected to the SUBWOOFER 2 terminal. Connecting two subwoofers increases the bass sound to achieve more powerful sound reproduction.

In this case, the same sound is output from the two subwoofers. Choose one from Plans [A] to [E] below. L FHR FHL R SW 1 SW 2 C SR This plan replaces the left and right front height speakers shown in [A] with the left and right front wide speakers (FWL/FWR). It is not possible to produce sound simultaneously from the front height or front wide speakers and the surround back speakers. This surround system produces a true-to-life sound over a wider area. Front Bi-Amp R L SW 2 C SW 1 SL SBR SBL [C] 7.2 channel surround system & Speaker B connection ! Speaker System setting: Speaker B SL SR Important ! The Speaker System setting must be made if you use any of the connections shown below other than [A] (see Speaker system setting on page 67). ! Sound does not come through simultaneously from the front height, front wide, speaker B and surround back speakers. Output speakers are different depending on the input signal or listening mode. A 7.

2 ch surround system connects the left and right front speakers (L/R), the center speaker (C), the left and right front height speakers (FHL/FHR), the left and right surround speakers (SL/SR), the left and right surround back speakers (SBL/SBR), and the subwoofers (SW 1/ SW 2). It is not possible to produce sound simultaneously from the front height or front wide speakers and the surround back speakers. This surround system produces a more true-to-life sound from above. R L SW 1 [E] 5.2 channel surround system & ZONE 2 connection (Multi Zone) R SR L SW 2 C SL SBR SBL Speaker B ! Speaker System setting: ZONE 2 With these connections you can simultaneously enjoy 5.

2-channel surround sound in the main zone with stereo playback on another component in ZONE 2. (The selection of input devices is limited.) Main zone R [B] 7.2 channel surround system (Front wide) ! Speaker System setting: Normal(SB/FW) [A] 7.2 channel surround system (Front height) *Default setting ! Speaker System setting: Normal(SB/FH) R L FWR With these connections you can simultaneously enjoy 5.

2-channel surround sound in the main zone with stereo playback of the same sound on the B speakers. The same connections also allow for 7.2-channel surround sound in the main zone when not using the B speakers. L SW 1 SW 2 C [D] 5.2 channel surround system & Front Bi-amping connection (High quality surround) SR SR SL Sub zone SW 2 FWL C SW 1 ! Speaker System setting: Front Bi-Amp Bi-amping connection of the front speakers for high sound quality with 5.2-channel surround sound. R ZONE 2 L SL SBR SBL 12 En Connecting your equipment 03 Other speaker connections ! Your favorite speaker connections can be selected even if you have fewer than 5.2 speakers (except front left/right speakers). ! When not connecting a subwoofer, connect speakers with low frequency reproduction capabilities to the front channel. (The subwoofer's low frequency component is played from the front speakers, so the speakers could be damaged.

) ! After connecting, be sure to conduct the Full Auto MCACC (speaker environment setting) procedure. See Automatically conducting optimum sound tuning (Full Auto MCACC) on page 26. ! Place the left and right front height speakers at least one meter directly above the left and right front speakers. THX speaker system setup If you are using a THX certified subwoofer, use the THX INPUT jack on the subwoofer (if your subwoofer has one) or switch the filter position to THX on your subwoofer. See also THX Audio Setting on page 69 to make the settings that will give you the best sound experience when using the Home THX modes (page 37). Some tips for improving sound quality Where you put your speakers in the room has a big effect on the quality of the sound. The following guidelines should help you to get the best sound from your system. ! The subwoofer can be placed on the floor. Ideally, the other speakers should be at about ear-level when you're listening to them.



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Putting the speakers on the floor (except the subwoofer), or mounting them very high on a wall is not recommended.

! For the best stereo effect, place the front speakers 2 m to 3 m apart, at equal distance from the TV. ! If you're going to place speakers around your CRT TV, use shielded speakers or place the speakers at a sufficient distance from your CRT TV. ! If you're using a center speaker, place the front speakers at a wider angle. If not, place them at a narrower angle. ! Place the center speaker above or below the TV so that the sound of the center channel is localized at the TV screen.

Also, make sure the center speaker does not cross the line formed by the leading edge of the front left and right speakers. ! It is best to angle the speakers towards the listening position. The angle depends on the size of the room. Use less of an angle for bigger rooms. ! Surround and surround back speakers should be positioned 60 cm to 90 cm higher than your ears and tilted slightly downward.

Make sure the speakers don't face each other. For DVDAudio, the speakers should be more directly behind the listener than for home theater playback. ! Try not to place the surround speakers farther away from the listening position than the front and center speakers. Doing so can weaken the surround sound effect. Connecting the speakers Each speaker connection on the receiver comprises a positive (+) and negative (-) terminal. Make sure to match these up with the terminals on the speakers themselves. CAUTION ! These speaker terminals carry HAZARDOUS LIVE voltage. To prevent the risk of electric shock when connecting or disconnecting the speaker cables, disconnect the power cord before touching any uninsulated parts. ! Make sure that all the bare speaker wire is twisted together and inserted fully into the speaker terminal. If any of the bare speaker wire touches the back panel it may cause the power to cut off as a safety measure.

Placing the speakers Refer to the chart below for placement of the speakers you intend to connect. FHL L FWL SW 2 SW 1 C FHR R Bare wire connections CAUTION Make sure that all speakers are securely installed. This not only improves sound quality, but also reduces the risk of damage or injury resulting from speakers being knocked over or falling in the event of external shocks such as earthquakes. 30 60 120 30 60 120 60 FWR 1 Twist exposed wire strands together. SL SR SBR 2 Loosen terminal and insert exposed wire. 3 1 10 mm SBL SB Tighten terminal. 2 3 ! Place the surround speakers at 120° from the center. If you, (1) use the surround back speaker, and, (2) don't use the front height speakers / front wide speakers, we recommend placing the surround speaker right beside you. ! If you intend to connect only one surround back speaker, place it directly behind you. En 13 03 Connecting your equipment Note ! Please refer to the manual that came with your speakers for details on how to connect the other end of the speaker cables to your speakers.

! Use an RCA cable to connect the subwoofer. It is not possible to connect using speaker cables. ! If you have two subwoofers, the second subwoofer can be connected to the SUBWOOFER 2 terminal. Connecting two subwoofers increases the bass sound to achieve more powerful sound reproduction. In this case, the same sound is output from the two subwoofers.

Installing your speaker system At the very least, front left and right speakers only are necessary. Note that your main surround speakers should always be connected as a pair, but you can connect just one surround back speaker if you like (it must be connected to the left surround back terminal). Standard surround connection The front height terminals can also be used for the front wide and Speaker B speakers. Front height setting Front height right Front wide setting Front wide right Speaker B setting Speaker B - right Front right Subwoofer 1 Center Speaker B - left Subwoofer 2 Front left Front wide left Front height left LINE LEVEL INPUT LINE LEVEL INPUT HDMI ASSIGNABLE IN 1 IN 2 IN 4 (VIDEO) BD IN IN 5 (DVD) IN 6 (DVR/BDR) OUT 1 (CONTROL) OUT 2 16 for WIRELESS LAN (OUTPUT 5V 0.6 A MAX) DC OUTPUT ADAPTER PORT (10/100) LAN (OUTPUT 5 V 0.

1 A MAX) AC IN ASSIGNABLE COMPONENT VIDEO PB PR MONITOR OUT COAXIAL ASSIGNABLE (DVD) OPTICAL IN 1 ASSIGNABLE Y (DVD) (DVR/BDR) IN 1 IN 1 (CD) IN 2 (TV/SAT) (DVR/BDR) (VIDEO) IN 2 IN 3 OUT VIDEO ZONE 2 ZONE 3 OUT OUT DVD IN TV/SAT IN VIDEO IN DVR/BDR OUT IN CD IN FRONT 1 SUBWOOFER 2 SURROUND SURR BACK FH / FW (Single) IN 2 PRE OUT L AUDIO MONITOR OUT R ANTENNA RS-232C AM LOOP FM UNBAL 75 CENTER SPEAKERS A R FRONT L CENTER R SURROUND L R SURROUND BACK L(Single) FRONT HEIGHT / FRONT WIDE / B R L IN OUT IN 1 IR IN 2 OUT 1 2 (OUTPUT 12 V TOTAL 150 mA MAX) (OUTPUT 5 V 150 mA MAX) CONTROL EXTENSION 12 V TRIGGER The surround back terminals can also be used for ZONE 2. 5.2 ch surround setting Not connected 6.2 ch surround setting Surround right Not connected Surround back 7.2 ch surround setting Surround back right Surround back left ZONE 2 - Right ZONE 2 setting ZONE 2 - Left Surround left Not connected 14 En Connecting your equipment 03 Bi-amping your speakers Bi-amping is when you connect the high frequency driver and low frequency driver of your speakers to different amplifiers for better crossover performance. Your speakers must be bi-ampable to do this (having separate terminals for high and low) and the sound improvement will depend on the kind of speakers you're using. Front right Bi-amp compatible speaker Front left Bi-amp compatible speaker Bi-wiring your speakers Your speakers can also be bi-wired if they support bi-amping. ! With these connections, the Speaker System setting makes no difference. Selecting the Speaker system The front height terminals can be used for front wide and Speaker B connections, in addition to for the front height speakers. Also, the surround back terminals can be used for bi-amping and ZONE 2 connections, in addition to for the surround back speakers.

Make this setting according to the application. CAUTION ! Don't connect different speakers from the same terminal in this way. ! When bi-wiring as well, heed the cautions for bi-amping shown above. High High Center Low Low Front height setup *Default setting HDMI ASSIGNABLE IN 1 IN 2 IN 4 (VIDEO) BD IN IN 5 (DVD) IN 6 (DVR/BDR) OUT 1 (CONTROL) OUT 2 16 for WIRELESS LAN (OUTPUT 5V 0.6 A MAX) DC OUTPUT ADAPTER PORT (10/100) LAN (OUTPUT 5 V 0.1 A MAX) % To bi-wire a speaker, connect two speaker cords to the speaker terminal on the receiver. AC IN 1 Connect a pair of speakers to the front height speaker terminals. See Standard surround connection on page 14 .



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ASSIGNABLE COMPONENT VIDEO PB PR MONITOR OUT COAXIAL ASSIGNABLE (DVD) OPTICAL IN 1 ASSIGNABLE Y (DVD) (DVR/BDR) IN 1 IN 1 (CD) IN 2 (TV/SAT) (DVR/BDR) (VIDEO) IN 2 IN 3 OUT VIDEO ZONE 2 ZONE 3 OUT OUT DVD IN TV/SAT IN VIDEO IN DVR/BDR OUT IN CD IN FRONT 1 SUBWOOFER 2 SURROUND SURR BACK FH / FW (Single) IN 2 2 If necessary, select 'Normal(SB/FH)' from the Speaker System menu. See Speaker system setting on page 67 to do this.

PRE OUT L AUDIO MONITOR OUT R ANTENNA RS-232C AM LOOP FM UNBAL 75 CENTER SPEAKERS A R FRONT L CENTER R SURROUND L R SURROUND BACK L(Single) FRONT HEIGHT / FRONT WIDE / B R L Front wide setup 1 Connect a pair of speakers to the front height speaker terminals.

See Standard surround connection on page 14 . IN OUT IN 1 IR IN 2 OUT 1 2 (OUTPUT 12 V TOTAL 150 mA MAX) (OUTPUT 5 V 150 mA MAX) CONTROL EXTENSION 12 V TRIGGER Subwoofer 1 Surround right Surround left Subwoofer 2 2 Select 'Normal(SB/FW)' from the Speaker System menu. See Speaker system setting on page 67 to do this. CAUTION ! Most speakers with both High and Low terminals have two metal plates that connect the High to the Low terminals.

These must be removed when you are bi-amping the speakers or you could severely damage the amplifier. See your speaker manual for more information. ! If your speakers have a removable crossover network, make sure you do not remove it for bi-amping. Doing so may damage your speakers. Speaker B setup You can listen to stereo playback in another room.

1 Connect a pair of speakers to the front height speaker terminals. See Standard surround connection on page 14 . 2 Select 'Speaker B' from the Speaker System menu. See Speaker system setting on page 67 to do this. En 15 03 Connecting your equipment Bi-Amping setup Bi-amping connection of the front speakers for high sound quality with 5.2-channel surround sound. About the audio connection Types of cables and terminals HDMI Sound signal priority Transferable audio signals HD audio High picture quality Terminal for connection with source device Terminal for connection with TV monitor About HDMI The HDMI connection transfers uncompressed digital video, as well as almost every kind of digital audio. This receiver incorporates High-Definition Multimedia Interface (HDMI®) technology. This receiver supports the functions described below through HDMI connections. ! Digital transfer of uncompressed video (contents protected by HDCP (1080p/24, 1080p/60, etc.

)) ! 3D signal transfer ! Deep Color signal transfer ! x.v.Color signal transfer ! ARC (Audio Return Channel) ! Input of multi-channel linear PCM digital audio signals (192 kHz or less) for up to 8 channels ! Input of the following digital audio formats: -- Dolby Digital, Dolby Digital Plus, DTS, High bitrate audio (Dolby TrueHD, DTS-HD Master Audio, DTS-HD High Resolution Audio), DVD-Audio, CD, SACD (DSD signal), Video CD, Super VCD !

Synchronized operation with components using the Control with HDMI function (see Control with HDMI function on page 45) HDMI IN HDMI OUT 1 Connect bi-amp compatible speakers to the front and surround back speaker terminals. See Bi-amping your speakers on page 15 . Y PB PR Y PB PR COMPONENT VIDEO IN COMPONENT VIDEO MONITOR OUT Digital (Coaxial) Conventional digital audio VIDEO IN VIDEO MONITOR OUT 2 Select 'Front Bi-Amp' from the Speaker System menu. See Speaker system setting on page 67 to do this. Video signals can be output Digital (Optical) Note RCA (Analog) (White/Red) Conventional analog audio ZONE 2 setup With these connections you can simultaneously enjoy 5.2-channel surround sound in the main zone with stereo playback on another component in ZONE 2. 1 Connect a pair of speakers to the surround back speaker terminals. See Standard surround connection on page 14 .

! With an HDMI cable, video and audio signals can be transferred in high quality over a single cable. 2 Select 'ZONE 2' from the Speaker System menu. See Speaker system setting on page 67 to do this. About the video converter The video converter ensures that all video sources are output through all of the MONITOR VIDEO OUT jacks. The only exception is HDMI: since this resolution cannot be downsampled, you must connect your monitor/TV to the receiver's HDMI output when connecting this video source.

If several video components are assigned to the same input function (see The Input Setup menu on page 28), the converter gives priority to HDMI, component, then composite (in that order). ! If the video signal does not appear on your TV, try adjusting the resolution settings on your component or display. Note that some components (such as video game units) have resolutions that may not be converted. In this case, try switching Digital Video Conversion (in Setting the Video options on page 50) OFF. ! The signal input resolutions that can be converted from the component video input for the HDMI output are 480i/576i, 480p/576p, 720p and 1080i.

1080p signals cannot be converted. ! Only signals with an input resolution of 480i/576i can be converted from the component video input for the composite MONITOR OUT terminals. ! For optimal video performance, THX recommends switching Digital Video Conversion (in Setting the Video options on page 50) OFF. This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited. Note ! An HDMI connection can only be made with DVI-equipped components compatible with both DVI and High Bandwidth Digital Content Protection (HDCP). If you choose to connect to a DVI connector, you will need a separate adaptor (DVItoHDMI) to do so. A DVI connection, however, does not support audio signals.

Consult your local audio dealer for more information. 16 En Connecting your equipment 03 ! If you connect a component that is not compatible with HDCP, an HDCP ERROR message is displayed on the front panel display. Some components that are compatible with HDCP still cause this message to be displayed, but so long as there is no problem with displaying video this is not a malfunction. ! Depending on the component you have connected, using a DVI connection may result in unreliable signal transfers. ! This receiver supports SACD, Dolby Digital Plus, Dolby TrueHD and DTS-HD Master Audio. To take advantage of these formats, however, make sure that the component connected to this receiver also supports the corresponding format. ! Use a High Speed HDMI® cable. If an HDMI cable other than a High Speed HDMI® cable is used, it may not work properly. ! When an HDMI cable with a built-in equalizer is connected, it may not operate properly. ! Signal transfer is only possible when connected to a compatible component.



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! HDMI format digital audio transmissions require a longer time to be recognized. Due to this, interruption in the audio may occur when switching between audio formats or beginning playback. ! Turning on/off the device connected to this unit's HDMI OUT terminal during playback, or disconnecting/connecting the HDMI cable during playback, may cause noise or interrupted audio. 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. "x.

v. Color" and marks of Sony Corporation. are trade- Connecting your TV and playback components Connecting using HDMI If you have an HDMI or DVI (with HDCP) equipped component (Blu-ray Disc player (BD), etc.), you can connect it to this receiver using a commercially available HDMI cable. If the TV and playback components support the Control with HDMI feature, the convenient Control with HDMI functions can be used (see Control with HDMI function on page 45).

Other HDMI/DVIequipped component HDMI/DVI-compatible Blu-ray Disc player HDMI/DVI-compatible monitor HDMI OUT HDMI OUT HDMI IN DIGITAL OUT COAXIAL OPTICAL Select one AUDIO OUT R ANALOG L HDMI ASSIGNABLE IN 1 IN 2 IN 4 (VIDEO) BD IN IN 5 (DVD) IN 6 (DVR/BDR) OUT 1 (CONTROL) OUT 2 16 for WIRELESS LAN (OUTPUT 5V 0.6 A MAX) DC OUTPUT ADAPTE (10/100) This connection is required in order to listen to the sound of the TV over the receiver. LAN (OUTPU 0.1 A ASSIGNABLE COMPONENT VIDEO PB PR MONITOR OUT COAXIAL ASSIGNABLE (DVD) OPTICAL IN 1 ASSIGNABLE Y (DVD) (DVR/BDR) IN 1 IN 1 (CD) IN 2 (TV/SAT) (DVR/BDR) (VIDEO) IN 2 IN 3 OUT VIDEO ZONE 2 ZONE 3 OUT OUT DVD IN TV/SAT IN VIDEO IN DVR/BDR IN OUT CD IN FRONT 1 SUBWOOFER 2 SURROUND SURR BACK FH / FW (Single) IN 2 PRE OUT L AUDIO MONITOR OUT R ANTENNA RS-232C AM LOOP FM UNBAL 75 CENTER SPEAKERS A R FRONT L CENTER R SURROUND L R SURROUND BACK L(Single) FRONT HEIGHT / FRONT WIDE R IN OUT IN 1 IR IN 2 OUT 1 2 (OUTPUT 12 V TOTAL 150 mA MAX) (OUTPUT 5 V 150 mA MAX) CONTROL EXTENSION 12 V TRIGGER ! When connecting to an HDMI/DVI-compatible monitor using the HDMI OUT 2 terminal, switch the HDMI output setting to HDMI OUT 2 or HDMI OUT ALL. See Switching the HDMI output on page 52 . ! For input components, connections other than HDMI connections are also possible (see Connecting your DVD player with no HDMI output on page 18). ! If you want to listen to the sound of the TV over the receiver, connect the receiver and TV with audio cables. -- When the TV and receiver are connected by HDMI connections, if the TV supports the HDMI ARC (Audio Return Channel) function, the sound of the TV is input to the receiver via the HDMI OUT terminal, so there is no need to connect an audio cable. In this case, set TV Audio at HDMI Setup to via HDMI (see HDMI Setup on page 45). En 17 03 Connecting your equipment Connecting your DVD player with no HDMI output This diagram shows connections of a TV (with HDMI input) and DVD player (or other playback component with no HDMI output) to the receiver.

HDMI/DVI-compatible monitor DVD player, etc. Connecting your TV with no HDMI input This diagram shows connections of a TV (with no HDMI input) and DVD player (or other playback component) to the receiver. ! With these connections, the picture is not output to the TV even if the DVD player is connected with an HDMI cable. Connect the receiver and TV using the same type of video cable as used to connect the receiver and player. DVD player, etc. AUDIO OUT HDMI IN Select one DIGITAL OUT COAXIAL OPTICAL R ANALOG L VIDEO OUT VIDEO Select one COMPONENT VIDEO OUT PR PB Y TV Select one COMPONENT VIDEO IN PR PB Y VIDEO IN VIDEO Select one COMPONENT VIDEO OUT PR PB Y VIDEO OUT VIDEO HDMI OUT DIGITAL OUT COAXIAL OPTICAL Select one AUDIO OUT R ANALOG L HDMI ASSIGNABLE IN 1 IN 2 IN 4 (VIDEO) BD IN IN 5 (DVD) IN 6 (DVR/BDR) OUT 1 (CONTROL) OUT 2 16 for WIRELESS LAN (OUTPUT 5V 0.6 A MAX) DC OUTPUT ADAPTER PORT (10/100) LAN (OUTPUT 5 V 0.1 A MAX) AC IN ASSIGNABLE COMPONENT VIDEO PB PR MONITOR OUT COAXIAL ASSIGNABLE (DVD) OPTICAL IN 1 ASSIGNABLE Y (DVD) (DVR/BDR) IN 1 IN 1 (CD) IN 2 (TV/SAT) (DVR/BDR) (VIDEO) IN 2 IN 3 OUT VIDEO ZONE 2 ZONE 3 OUT OUT DVD IN TV/SAT IN VIDEO IN DVR/BDR IN OUT CD IN FRONT 1 SUBWOOFER 2 SURROUND SURR BACK FH / FW (Single) IN 2 PRE OUT L AUDIO MONITOR OUT R HDMI ASSIGNABLE IN 1 IN 2 IN 4 (VIDEO) BD IN IN 5 (DVD) IN 6 (DVR/BDR) OUT 1 (CONTROL) OUT 2 ANTENNA RS-232C AM LOOP FM UNBAL 75 CENTER 16 for WIRELESS LAN (OUTPUT 5V 0.6 A MAX) DC OUTPUT ADAPTER PORT (10/100) LAN (OUTPUT 5 V 0.1 A MAX) ASSIGNABLE COMPONENT VIDEO PB PR MONITOR OUT COAXIAL ASSIGNABLE (DVD) OPTICAL IN 1 ASSIGNABLE SPEAKERS A R FRONT L CENTER R SURROUND L R SURROUND BACK L(Single) FRONT HEIGHT / FRONT WIDE / B R L Y (DVD) (DVR/BDR) IN 1 IN 1 (CD) IN 2 (TV/SAT) (DVR/BDR) (VIDEO) IN 2 IN 3 OUT VIDEO ZONE 2 ZONE 3 OUT OUT DVD IN TV/SAT IN VIDEO IN DVR/BDR OUT IN CD IN FRONT 1 SUBWOOFER 2 SURROUND SURR BACK FH / FW (Single) IN 2 IN OUT IN 1 IR IN 2 OUT 1 PRE OUT L 2 (OUTPUT 12 V TOTAL 150 mA MAX) AUDIO MONITOR OUT (OUTPUT 5 V 150 mA MAX) CONTROL R EXTENSION 12 V TRIGGER ANTENNA RS-232C AM LOOP FM UNBAL 75 CENTER SPEAKERS A R FRONT L CENTER R SURROUND L R SURROUND BACK L(Single) FRONT HEIGHT / FRONT WIDE / B R L ! If you want to listen to the sound of the TV over the receiver, connect the receiver and TV with audio cables (page 17).

-- When the TV and receiver are connected by HDMI connections, if the TV supports the HDMI ARC (Audio Return Channel) function, the sound of the TV is input to the receiver via the HDMI OUT terminal, so there is no need to connect an audio cable. In this case, set TV Audio at HDMI Setup to via HDMI (see HDMI Setup on page 45). ! If you use an optical digital audio cable, you'll need to tell the receiver which digital input you connected the player to (see The Input Setup menu on page 28). IN OUT IN 1 IR IN 2 OUT 1 2 (OUTPUT 12 V TOTAL 150 mA MAX) (OUTPUT 5 V 150 mA MAX) CONTROL EXTENSION 12 V TRIGGER ! Connect using an HDMI cable to listen to HD audio on the receiver. Do not use an HDMI cable to input video signals.

Depending on the video component, it may not be possible to output signals connected by HDMI and other methods simultaneously, and it may be necessary to make output settings. Please refer to the operating instructions supplied with your component for more information.



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! If you want to listen to the sound of the TV over the receiver, connect the receiver and TV with audio cables (page 17). ! If you use an optical digital audio cable, you'll need to tell the receiver which digital input you connected the player to (see The Input Setup menu on page 28). 18 En Connecting your equipment 03 Connecting an HDD/DVD recorder, BD recorder and other video sources This receiver has two sets of audio/video inputs and outputs suitable for connecting analog or digital video devices, including HDD/DVD recorders and BD recorders.

When you set up the receiver you'll need to tell the receiver which input you connected the recorder to (see also The Input Setup menu on page 28). HDD/DVD recorder, BD recorder, etc. Connecting a satellite/cable receiver or other set-top box Satellite and cable receivers, and terrestrial digital TV tuners are all examples of so-called 'set-top boxes'. When you set up the receiver you'll need to tell the receiver which input you connected the set-top box to (see The Input Setup menu on page 28). STB VIDEO OUT VIDEO VIDEO IN VIDEO AUDIO OUT Select one DIGITAL OUT COAXIAL OPTICAL R ANALOG L AUDIO IN R ANALOG L VIDEO OUT VIDEO DIGITAL OUT COAXIAL OPTICAL Select one AUDIO OUT R ANALOG L HDMI ASSIGNABLE IN 1 IN 2 IN 4 (VIDEO) BD IN IN 5 (DVD) IN 6 (DVR/BDR) OUT 1 (CONTROL) OUT 2 16 for WIRELESS LAN (OUTPUT 5V 0.6 A MAX) DC OUTPUT ADAPTER PORT (10/100) LAN (OUTPUT 5 V 0.1 A MAX) AC IN HDMI ASSIGNABLE IN 1 IN 2 IN 4 (VIDEO) BD IN IN 5 (DVD) IN 6 (DVR/BDR) OUT 1 (CONTROL) OUT 2 16 for WIRELESS LAN (OUTPUT 5V 0.6 A MAX) DC OUTPUT ADAPTER PORT (10/100) ASSIGNABLE COMPONENT VIDEO PB PR MONITOR OUT COAXIAL ASSIGNABLE (DVD) OPTICAL IN 1 ASSIGNABLE LAN (OUTPUT 5 V 0.1 A MAX) AC IN Y (DVD) (DVR/ BDR) IN 1 IN 1 (CD) IN 2 (TV/SAT) (DVR/BDR) (VIDEO) IN 2 IN 3 OUT ASSIGNABLE COMPONENT VIDEO PB PR MONITOR OUT COAXIAL ASSIGNABLE (DVD) OPTICAL IN 1 VIDEO ZONE 2 ZONE 3 OUT OUT DVD IN TV/SAT IN VIDEO IN DVR/BDR OUT IN CD IN FRONT 1 SUBWOOFER 2 SURROUND SURR BACK FH / FW (Single) ASSIGNABLE Y (DVD) (DVR/ BDR) IN 2 IN 1 IN 1 (CD) IN 2 (TV/SAT) (DVR/BDR) (VIDEO) IN 2 IN 3 OUT PRE OUT L VIDEO ZONE 2 ZONE 3 OUT OUT DVD IN TV/SAT IN VIDEO IN DVR/BDR IN OUT CD IN FRONT 1 SUBWOOFER 2 SURROUND SURR BACK FH / FW (Single) IN 2 AUDIO PRE OUT L MONITOR OUT R AUDIO MONITOR OUT ANTENNA RS-232C AM LOOP FM UNBAL 75 CENTER R SPEAKERS A R FRONT L CENTER R SURROUND L R SURROUND BACK L(Single) FRONT HEIGHT / FRONT WIDE / B R L ANTENNA RS-232C AM LOOP FM UNBAL 75 CENTER SPEAKERS A R FRONT L CENTER R SURROUND L R SURROUND BACK L(Single) FRONT HEIGHT / FRONT WIDE / B R L IN OUT IN 1 IR IN 2 OUT 1 2 (OUTPUT 12 V TOTAL 150 mA MAX) IN OUT IN 1 IR IN 2 OUT 1 (OUTPUT 5 V 150 mA MAX) 2 CONTROL EXTENSION 12 V TRIGGER (OUTPUT 5 V 150 mA MAX) CONTROL EXTENSION (OUTPUT 12 V TOTAL 150 mA MAX) 12 V TRIGGER ! In order to record, you must connect the analog audio cables (the digital connection is for playback only) (page 52). ! If your HDD/DVD recorder, BD recorder, etc.

, is equipped with an HDMI output terminal, we recommend connecting it to the receiver's HDMI DVR/BDR IN terminal. When doing so, also connect the receiver and TV by HDMI (see Connecting using HDMI on page 17). ! If your set-top box is equipped with an HDMI output terminal, we recommend connecting it to the receiver's HDMI IN 1 or IN 2 terminal. When doing so, also connect the receiver and TV by HDMI (see Connecting using HDMI on page 17). En 19 03 Connecting your equipment Connecting other audio components This receiver has both digital and analog inputs, allowing you to connect audio components for playback. When you set up the receiver you'll need to tell the receiver which input you connected the component to (see also The Input Setup menu on page 28). MD, DAT, etc. Connecting additional amplifiers This receiver has more than enough power for any home use, but it's possible to add additional amplifiers to every channel of your system using the pre-outs. Make the connections shown below to add amplifiers to power your speakers.

ANALOG INPUT L R Front channel amplifier DIGITAL IN OPTICAL AUDIO OUT Select one ANALOG INPUT R ANALOG L DIGITAL OUT COAXIAL OPTICAL ANALOG INPUT L R R OUT 1 (CONTROL) DC OUTPUT Center channel amplifier (mono) Surround channel amplifier ADAPTER PORT (10/100) OUT 2 HDMI ASSIGNABLE IN 1 IN 2 IN 4 (VIDEO) BD IN IN 5 (DVD) IN 6 (DVR/BDR) OUT 1 (CONTROL) OUT 2 16 for WIRELESS LAN (OUTPUT 5V 0.6 A MAX) DC OUTPUT ADAPTER PORT (10/100) LAN (OUTPUT 5 V 0.1 A MAX) for WIRELESS LAN (OUTPUT 5V 0.6 A MAX) LAN (OUTPUT 5 V 0.1 A MAX) AC IN AC IN NITOR UT COAXIAL ASSIGNABLE (DVD) OPTICAL IN 1 ANALOG INPUT L R ASSIGNABLE IN 1 ASSIGNABLE COMPONENT VIDEO PB PR MONITOR OUT COAXIAL ASSIGNABLE (DVD) OPTICAL IN 1 (CD) IN 2 (TV/SAT) (DVR/BDR) (VIDEO) IN 2 IN 3 OUT ASSIGNABLE Y (DVD) (DVR/ BDR) IN 1 IN 1 (CD) IN 2 (TV/SAT) (DVR/BDR) (VIDEO) IN 2 IN 3 OUT VIDEO CD IN FRONT 1 SUBWOOFER 2 SURROUND SURR BACK FH / FW (Single) VIDEO ZONE 2 ZONE 3 OUT OUT DVD IN TV/SAT IN VIDEO IN DVR/BDR OUT IN CD IN FRONT 1 SUBWOOFER 2 SURROUND SURR BACK FH / FW (Single) IN 2 PRE OUT L Front height or Front wide channel amplifier UDIO PRE OUT L CENTER R CENTER R SURROUND L AUDIO MONITOR OUT R ANALOG INPUT L ANTENNA RS-232C AM LOOP FM UNBAL 75 CENTER R SURROUND BACK L(Single) FRONT HEIGHT / FRONT WIDE / B R L SPEAKERS A R FRONT L CENTER R SURROUND L R SURROUND BACK L(Single) FRONT HEIGHT / FRONT WIDE / B R L R Surround back channel amplifier Powered subwoofer 2 Powered subwoofer 1 IN OUT IN 1 IR IN 2 OUT 1 ANALOG INPUT 2 (OUTPUT 12 V TOTAL 150 mA MAX) (OUTPUT 5 V 150 mA MAX) CONTROL EXTENSION 12 V TRIGGER ANALOG INPUT ! If your turntable has line-level outputs (i.e.

, it has a built-in phono pre-amp), connect it to the CD inputs instead. ! You can't hear HDMI audio through this receiver's digital out jack. ! If you're not using a subwoofer, change the front speaker setting (see Speaker Setting on page 64) to LARGE. ! You can use the additional amplifier on the surround back channel pre-outs for a single speaker as well. In this case plug the amplifier into the left (SURROUND BACK L (Single)) terminal only.

! The sound from the surround back terminals will depend on how you have configured the Speaker system setting on page 67 .



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