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You can read the recommendations in the user guide, the technical guide or the installation guide for PIONEER VSX-421. You'll find the answers to all your questions on the PIONEER VSX-421 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***

**VSX-421-K** | AUDIO/VIDEO MULTI-CHANNEL RECEIVER

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Operating Instructions



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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. 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 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. @@@@If in any doubt, please consult a qualified electrician.

@@@How to replace the fuse: Open the fuse compartment with a screwdriver and replace the fuse. D3-4-2-1-2-2\*\_A2\_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 2 En 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. Pb K058a\_A1\_En WARNING This equipment is not waterproof. 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 WARNING 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 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 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 3 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 Before you start . .

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and Stream Direct playback (page 23). ALC/STANDARD SURR Press for standard decoding and to switch between the modes of 2 Pro Logic II, 2 Pro Logic IIx and NEO:6, and the Auto level control stereo mode (page 22). ADVANCED SURROUND Switches between the various surround modes (page 23). STEREO Press to select stereo playback (page 22). 1 INPUT SELECTOR dial Selects an input source (page 18). 2 Receiver control buttons SPEAKERS Use to change the speaker system on or off. When the SP OFF is selected, no sound is output from the speakers connected to this receiver. DIMMER Dims or brightens the display. The brightness can be controlled in four steps.

DISPLAY Switches the display of this unit. The listening mode, sound volume or input name can be checked by selecting an input source. 3 Character display See Display on page 7. 4 Tuner control buttons BAND Switches between AM, FM ST (stereo) and FM MONO radio bands (page 19). 5 Remote sensor Receives the signals from the remote control (see Operating range of remote control on page 9). 6 HDMI indicator Blinks when connecting an HDMI-equipped component; lights when the component is connected (page 14). 7 8 MASTER VOLUME dial STANDBY/ON 6 En Controls and displays 11 SOUND RETRIEVER Press to restore CD quality sound to compressed audio sources (page 23). 12 PORTABLE jack Use to connect an auxiliary component using a stereo minijack cable (page 20). 10 Component control buttons The main buttons (, , etc.) are used to control a component after you have selected it using the input function buttons.

The controls above these buttons can be accessed after you have selected the corresponding input function button (BD, DVD, DVR/BDR and CD). These buttons also function as described below. Remote control 1 2 3 4 5 ADAPTER TUNER PORTABLE PHASE S.RETRIEVER SIGNAL SEL VOL RECEIVER SLEEP TV SOURCE CONTROL RECEIVER INPUT SELECT DTV/TV INPUT BD DVD TV 12 13 CH 1 SLEEP Press to change the amount of time before the receiver switches into standby (30 min 60 min 90 min Off). You can check the remaining sleep time at any time by pressing SLEEP once.

2 RECEIVER Switches the receiver between standby and on. 3 RECEIVER Switches the remote to control the receiver (used to select the white commands above the number buttons (MIDNIGHT, etc)). Also use this button to set up surround sound (page 26) or Audio parameters (page 24). 4 INPUT SELECT Use to select the input source (page 18). 5 Input function buttons Use to select the input source to this receiver (page 18).

This will enable you to control other Pioneer components with the remote control. · ADAPTER button is not used with this receiver. 6 Receiver control buttons PHASE Press to switch on/off Phase Control (page 23). S.RETRIEVER Press to restore CD quality sound to compressed audio sources (page 23). SIGNAL SEL Press to select the audio input signal of the component to play back (page 18). Listening mode buttons AUTO/DIRECT Switches between Auto surround mode (page 22) and Stream Direct playback (page 23). STEREO Press to select stereo playback (page 22). ALC/STANDARD SURR Press for standard decoding and to switch between the modes of 2 Pro Logic II, 2 Pro Logic IIx and NEO:6, and the Auto level control stereo mode (page 22). ADV SURR Switches between the various surround modes (page 23).

DVR/BDR CD CD-R 6 7 8 9 HOME MENU SETUP PTY SEARCH TOP MENU AUTO/ DIRECT BD MENU ALC/ STEREO STANDARD ADV SURR AUDIO PARAMETER TUNE TUNER EDIT MASTER VOLUME TOOLS MENU PRESET PRESET ENTER 14 BAND TUNE RETURN MUTE 15 10 BASS TRE HDD DVD VCR 7 DISP CH CH SHIFT 1 2 5 8 0 3 6 LEV 16 TEST TONE SB CH CH SELECT 11 4 7 DIMMER CLR MIDNIGHT SPEAKERS 9 LEV ENTER +10 17 RECEIVER 8 En Controls and displays Press RECEIVER first to access: BASS /+, TRE /+ Use to adjust Bass or Treble. · These controls are disabled when the listening mode is set to DIRECT or PURE DIRECT. · When the front speaker is set at SMALL in the Speaker Setting and the Crossover Network is set above 150 Hz, the subwoofer channel level will be adjusted by pressing BASS /+ (page 27). 11 Number buttons and other component controls Use the number buttons to directly select a radio frequency (page 19) or the tracks on a CD, etc. There are other buttons that can be accessed after RECEIVER is pressed. (For example MIDNIGHT, etc.) HDD\*, DVD\*, VCR\* These buttons switch between the hard disk, DVD and VCR controls for HDD/DVD/VCR recorders. SB CH Press to select ON, AUTO or OFF the surround back channel (page 24). CH SELECT Press repeatedly to select a channel, then use LEV +/- to adjust the level (page 27). LEV +/- Use to adjust the channel level. MIDNIGHT Switches to Midnight or Loudness listening (page 24).



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**SPEAKERS** Use to change the speaker system on or off. When the SP OFF is selected, no sound is output from the speakers connected to this receiver.

**DIMMER** Dims or brightens the display. The brightness can be controlled in four steps.

**12 SOURCE** Turns on or off the power of the Pioneer DVD/DVR units when BD, DVD, DVR/BDR or CD is selected using the input function buttons. **13 TV**

**CONTROL** buttons These buttons can control only be used with Pioneer TVs. Use to turn on/off the power of the TV. **INPUT** Use to select the TV input signal. **CH +/-** Use to select channels.

**VOL +/-** Use to adjust the volume on your TV. **DTV/TV\*** Switches between the DTV and analog TV input modes for Pioneer TVs. **14 MASTER VOLUME +/-**

Use to set the listening volume. **15 MUTE** Mutes/unmutes the sound. **16 DISP** Switches the display of this unit. The listening mode, sound volume or input name can be checked by selecting an input source. **17 SHIFT** Press to access the 'boxed' commands (above the buttons) on the remote. These buttons are marked with an asterisk (\*) in this section. **01 Operating range of remote control** The remote control may not work properly if: · There are obstacles between the remote control and the receiver's remote sensor. · Direct sunlight or fluorescent light is shining onto the remote sensor.

· The receiver is located near a device that is emitting infrared rays. · The receiver is operated simultaneously with another infrared remote control unit.

**Loading the batteries** 30° 30° The batteries included with the unit are to check initial operations; they may not last over a long period. We recommend using alkaline batteries that have a longer life. **CAUTION** · Incorrect use of batteries may result in such hazards as leakage and bursting. Observe the following precautions: - Never use new and old batteries together. - Insert the plus and minus sides of the batteries properly according to the marks in the battery case.

- Batteries with the same shape may have different voltages. Do not use different batteries together. - When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.

- Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries. **7m 9 En 02 Connecting your equipment Chapter 2: a.** This layout is available only when the additional amplifier is connected to the unit and the surround back speakers are connected to the amplifier.

For details, see **Connect the surround back speakers on page 11. Connecting your equipment Placing the speakers** By connecting the left and right front speakers (L/R), the center speaker (C), the left and right surround speakers (SL/SR), and the subwoofer (SW), a 5.1 ch surround system can be enjoyed. Further, by using an external amplifier, you can connect the left and right surround back speakers (SBL/SBR) to boost your system up to a 7.1 ch surround system.

· You can also connect one surround back speaker (SB) and enjoy a 6.1 ch surround system. To achieve the best possible surround sound, install your speakers as shown below. **5.1 channel surround system: 6.1 channel surround system: a Hints on the speaker placement** 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. 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 slight downward.

Make sure the speakers don't face each other. For DVD-Audio, the speakers should be more directly behind the listener than for home theater playback. · If the surround speakers cannot be set directly to the side of the listening position with a 7.1-channel system, the surround effect can be enhanced by turning off the Up Mix function (see **Setting the Up Mix function on page 24**). · 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. **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. **90 SR R L C SW 120 SR SL SL 120 SW 120 L R C 120 SR SB 7.1 channel surround system: a R L C SW 90 SBR SL SBL 60 Important** · To connect the surround back speakers, an additional amplifier is required.

Connect the additional amplifier to the **PRE OUT SURR BACK** outputs of this unit and connect the surround back speakers to the additional amplifier (see **Connect the surround back speakers on page 11**). **10 En Connecting your equipment 02 Connecting the speakers** The receiver will work with just two stereo speakers (the front speakers in the diagram) but using at least three speakers is recommended, and a complete setup is best for surround sound. Make sure you connect the speaker on the right to the right (R) terminal and the speaker on the left to the left (L) terminal. Also make sure the positive and negative (+/-) terminals on the receiver match those on the speakers. Be sure to complete all connections before connecting this unit to the AC power source. **Front right**

**Subwoofer LINE LEVEL INPUT Front left Center HDMI DVR/BDR IN DVD IN BD IN OUT COAXIAL IN 1 ASSIGNABLE (CD) IN 1 IN 2 OPTICAL ASSIGNABLE Bare wire connections Front speaker terminals: VIDEO AUDIO DVR/BDR CD-R/TAPE SURR BACK MONITOR TV/SAT OUT IN (TV/SAT) (CD-R/TAPE) 1 2 3 BD IN DVR/ BDR OUT IN 1 Twist exposed wire strands together.**



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2 Loosen terminal and insert exposed wire. 3 Tighten terminal. Center and surround speaker terminals: (Single) L OUT PRE OUT R ANTENNA FM UNBAL 75 AM LOOP R FRONT L CENTER SURROUND R L 10 mm CD L DVD IN IN IN R IN 1 (DVD) ASSIGNABLE (DVR/ IN 2 L IN IN R SUBWOOFER PB PR TV/SAT BD DVD 1 10 mm 2 3 BDR) 1 Twist exposed wire strands together. 2 Push open the tabs and insert exposed wire.

**MONITOR OUT Y COMPONENT VIDEO PRE OUT SPEAKERS A 3** Release the tabs. **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. Surround right Surround left Connect the surround back speakers Connect the PRE OUT SURR BACK outputs of the unit and additional amplifier to add a surround back speaker. · 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 (L (Single)) terminal only. R ANALOG L Surround back right Surround back left AUDIO IN SPEAKER R SPEAKER L Surround back channel amplifier 11 En 02 Connecting your equipment · 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 displayed.

In this case, use a (analog) composite connection. · When the video signal from the HDMI is 480i, 480p, 576i or 576p, Multi Ch PCM sound and HD sound cannot be received. Making cable connections Make sure not to bend the cables over the top of this unit (as shown in the illustration). If this happens, the magnetic field produced by the transformers in this unit may cause a humming noise from the speakers. About HDMI The HDMI connection transfers uncompressed digital video, as well as almost every kind of digital audio that the connected component is compatible with, including DVDVideo, DVD-Audio, SACD, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio (see below for limitations), Video CD/ Super VCD and CD.

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 · 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), DVDAudio, CD, SACD (DSD 2 ch only), Video CD, Super VCD · Synchronized operation with components using the Control with HDMI function (see Control with HDMI function on page 29) Important · Before making or changing connections, switch off the power and disconnect the power cord from the AC outlet. · Before unplugging the power cord, switch the power into standby. Note · Use a High Speed HDMI® cable. If 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. · 3D, Deep Color, x.v. Color signal transfer and Audio Return Channel are only possible when connected to a compatible component. · @@@@ · 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 Corporation. are trademarks of Sony HDMI cables Both video and sound signals can be transmitted simultaneously with one cable. If connecting the player and the TV via this receiver, for both connections, use HDMI cables. HDM I Be careful to connect the terminal in the proper direction. Note · Set the HDMI parameter in Setting the Audio options on page 24 to THRU (THROUGH) and set the input signal in Selecting the audio input signal on page 18 to HDMI, if you want to hear HDMI audio output from your TV (no sound will be heard from this receiver). 12 En Connecting your equipment 02 Analog audio cables Use stereo RCA phono cables to connect analog audio components. These cables are typically red and white, and you should connect the red plugs to R (right) terminals and white plugs to L (left) terminals. White (Left) L AUD IO Video cables Standard RCA video cables These cables are the most common type of video connection and are used to connect to the composite video terminals.

The yellow plugs distinguish them from cables for audio. VID About video outputs connection This receiver is not loaded with a video converter. When you use component video cables or HDMI cables for connecting to the input device, the same cables should be used for connecting to the TV. The signals input from the analog (composite and component) video inputs of this unit will not be output from the HDMI OUT. Playback component EO R Red (Right) Yellow Digital audio cables Commercially available coaxial digital audio cables or optical cables should be used to connect digital components to this receiver.

Coaxial digital audio cable COA XIA IN L Component video cables Use component video cables to get the best possible color reproduction of your video source. The color signal of the TV is divided into the luminance (Y) signal and the color (PB and PR) signals and then output. In this way, interference between the signals is avoided. CO MP ON EN Y TV IDE PB O Terminal for connection with source device IN HDMI IN IN Y PB PR OPT ICA IN L COMPONENT VIDEO VIDEO Green (Y) Optical cable PR OUT MONITOR OUT Note · When connecting optical cables, be careful when inserting the plug not to damage the shutter protecting the optical socket. · When storing optical cable, coil loosely.

The cable may be damaged if bent around sharp corners. · You can also use a standard RCA video cable for coaxial digital connections. Blue (PB) Red (PR) MONITOR OUT Y PB PR HDMI COMPONENT VIDEO Terminal for connection with TV monitor VIDEO TV Video signals can be output. 13 En 02 Connecting your equipment Connecting a TV and playback components Connecting using HDMI If you have an HDMI or DVI (with HDCP) equipped component (Blu-ray Disc player, etc.



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), 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 29). · The following connection/setting is required to listen to the sound of the TV over this receiver. - If the TV does not support the HDMI Audio Return Channel function, connect the receiver and TV with audio cables (as shown). - If the TV supports the HDMI Audio Return Channel function, the sound of the TV is input to the receiver via the HDMI terminal, so there is no need to connect an audio cable. In this case, set ARC at HDMI SET to ON (see HDMI Setup on page 29).

**HDMI DVR/BDR IN DVD IN BD IN OUT** Connecting your component with no HDMI terminal This diagram shows connections of a TV and DVD player (or other playback component) with no HDMI terminal to the receiver. · If both TV and player has a component video jacks, you can connect these too. See Using the component video jacks on page 16 for more on this. COAXIAL IN 1 ASSIGNABLE (CD) (TV/SAT) (CD-R/TAPE) HDMI DVR/BDR IN DVD IN BD IN OUT IN 1 IN 2 OPTICAL ASSIGNABLE VIDEO AUDIO DVR/BDR CD-R/TAPE SURR BACK L MONITOR TV/SAT OUT IN BD IN (Single) OUT PRE OUT R DVR/ BDR OUT IN DVD IN IN ANTENNA FM UNBAL 75 AM LOOP R FRONT L CENT CD L IN R IN 1 (DVD) COAXIAL IN 1 ASSIGNABLE (CD) IN 1 IN 2 OPTICAL ASSIGNABLE ASSIGNABLE IN 2 (DVR/ BDR) IN L IN R SUBWOOFER PB PR TV/SAT BD DVD (TV/SAT) (CD-R/TAPE) VIDEO AUDIO DVR/BDR CD-R/TAPE SURR BACK L MONITOR OUT Y COMPONENT VIDEO PRE OUT SPEAKERS A MONITOR TV/SAT OUT IN BD IN (Single) OUT PRE OUT R DVR/ BDR OUT IN DVD IN IN ANTENNA FM UNBAL 75 AM LOOP R FRONT L CEN CD L IN R IN 1 (DVD) ASSIGNABLE (DVR/ IN 2 L IN IN R SUBWOOFER PB PR TV/SAT BD DVD BDR) OPTICAL DIGITAL AUDIO OUT VIDEO IN SPEAKERS A R L ANALOG AUDIO OUT VIDEO OUT R L Select one This connection is required in order to listen to the sound of the TV over the receiver. MONITOR OUT Y COMPONENT VIDEO PRE OUT ANALOG AUDIO OUT OPTICAL COAXIAL DIGITAL AUDIO OUT Select one HDMI OUT HDMI IN R L HDMI/DVI-compatible Blu-ray Disc player ANALOG AUDIO OUT OPTICAL DIGITAL AUDIO OUT TV DVD player Select one If the TV does not support the HDMI Audio Return Channel function, this connection is required to listen to the TV sound over the receiver. HDMI/DVIcompatible TV Note · In order to listen to the audio from the DVD player that is connected to this receiver using an optical cable or a coaxial cable, first, switch to the DVD input, then press SIGNAL SEL to choose the audio signal O2 (OPTICAL2) or C1 (COAXIAL1) (see Selecting the audio input signal on page 18). 14 En Connecting your equipment 02 Connecting a satellite receiver or other digital set-top box Satellite and cable receivers, and terrestrial digital TV tuners are all examples of so-called 'set-top boxes'. · If the set-top box or video component also has an HDMI or a component video output, you can connect this too. See Connecting using HDMI on page 14 or Using the component video jacks on page 16 for more on this. DVR/BDR IN DVD IN BD IN OUT Connecting an HDD/DVD recorder, Blu-ray Disc recorder and other video sources This receiver has audio/video inputs and outputs suitable for connecting analog or digital video recorders, including HDD/ DVD recorders and Blu-ray Disc recorders.

· Only the signals that are input to the VIDEO IN terminal can be output from the VIDEO OUT terminal. · Audio signals that are input through the digital terminal will not be output from the analog terminal. HDMI DVR/BDR IN DVD IN BD IN OUT Connecting other audio components The number and kind of connections depends on the kind of component you're connecting. Follow the steps below to connect a CD-R, MD, DAT, tape recorder or other audio component. · Note that you must connect digital components to analog audio jacks if you want to record to/from digital components (like an MD) to/from analog components.

**HDMI DVR/BDR IN DVD IN BD IN OUT** COAXIAL IN 1 ASSIGNABLE (CD) IN 1 IN 2 OPTICAL ASSIGNABLE COAXIAL IN 1 ASSIGNABLE IN 1 IN 2 OPTICAL ASSIGNABLE COAXIAL IN 1 ASSIGNABLE (CD) IN 1 IN 2 OPTICAL ASSIGNABLE (CD) (TV/SAT) (CD-R/TAPE) (TV/SAT) (CD-R/TAPE) VIDEO AUDIO DVR/BDR CD-R/TAPE SURR BACK (TV/SAT) (CD-R/TAPE) VIDEO AUDIO DVR/BDR CD-R/TAPE SURR BACK L MONITOR TV/SAT OUT IN BD IN (Single) L VIDEO AUDIO DVR/BDR CD-R/TAPE SURR BACK L MONITOR TV/SAT OUT IN BD IN (Single) OUT PRE OUT OUT PRE OUT R DVR/ BDR OUT IN DVD IN IN ANTENNA FM UNBAL 75 AM LOOP R FRONT L CENT MONITOR TV/SAT OUT IN BD IN (Single) R DVR/ BDR OUT IN DVD IN IN ANTENNA FM UNBAL 75 AM LOOP R FRONT L CEN OUT PRE OUT CD L IN R R DVR/ BDR OUT IN DVD IN IN ANTENNA FM UNBAL 75 AM LOOP R FRONT L CENT CD L IN R CD L IN R IN 1 (DVD) ASSIGNABLE IN 1 (DVD) ASSIGNABLE IN 2 (DVR/ BDR) IN L IN R SUBWOOFER PB PR TV/SAT BD DVD IN 1 (DVD) ASSIGNABLE IN 2 (DVR/ BDR) IN L IN R SUBWOOFER PB PR TV/SAT BD DVD IN 2 (DVR/ BDR) IN L IN R SUBWOOFER PB PR TV/SAT BD DVD MONITOR OUT Y MONITOR OUT Y COMPONENT VIDEO PRE OUT SPEAKERS A MONITOR OUT Y COMPONENT VIDEO SPEAKERS A PRE OUT SPEAKERS A COMPONENT VIDEO PRE OUT R R L L VIDEO OUT ANALOG AUDIO OUT COAXIAL OPTICAL DIGITAL AUDIO OUT R R L L Select one Set-top box, etc. ANALOG AUDIO OUT VIDEO IN VIDEO OUT OPTICAL DIGITAL AUDIO OUT REC L ANALOG AUDIO IN R ANALOG AUDIO OUT COAXIAL OPTICAL DIGITAL AUDIO OUT Select one CD-R, MD, DAT, Tape recorder, etc. ANALOG AUDIO IN Select one HDD/DVD recorder, Blu-ray Disc recorder, etc. Note · In order to listen to the audio from the source component that is connected to this receiver using a coaxial cable, first, switch to the TV/SAT, then press SIGNAL SEL to choose the audio signal C1 (COAXIAL1) (see Selecting the audio input signal on page 18). Note · In order to listen to the audio from the source component that is connected to this receiver using an optical cable, first, switch to the DVR/BDR input, then press SIGNAL SEL to choose the audio signal O2 (OPTICAL2) (see Selecting the audio input signal on page 18).

Note · In order to listen to the audio from the CD player that is connected to this receiver using a coaxial cable, first, switch to the CD-R input, then press SIGNAL SEL to choose the audio signal C1 (COAXIAL1) (see Selecting the audio input signal on page 18). 15 En 02 Connecting your equipment Using the component video jacks Component video should deliver superior picture quality when compared to composite video.



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A further advantage (if your source and TV are both compatible) is progressive-scan video, which delivers a very stable, flicker-free picture. See the manuals that came with your TV and source component to check whether they are compatible with progressive-scan video. · For the audio connection, refer to Connecting your component with no HDMI terminal on page 14. DVR/BDR CD-R/TAPE SURR BACK MONITOR TV/SAT OUT IN Important · If you connect any source component to the receiver using a component video input, you must also have your TV connected to this receiver's COMPONENT VIDEO MONITOR OUT jacks. · If necessary, assign the component video inputs to the input source you've connected. This only needs to be done if you didn't connect according to the following defaults: - COMPONENT VIDEO IN 1: DVD - COMPONENT VIDEO IN 2: DVR/BDR See The Input Assign menu on page 27 for more on this. Connecting antennas Connect the AM loop antenna and the FM wire antenna as shown below. To improve reception and sound quality, connect external antennas (see Using external antennas below).

fig. a fig. b BD IN (Single) L OUT PRE OUT R DVR/ BDR OUT IN DVD IN IN ANTENNA FM UNBAL 75 AM LOOP R FRONT L C CD L IN R 2 4 ANTENNA FM UNBAL 75 AM LOOP IN 1 (DVD) ASSIGNABLE IN 2 (DVR/ BDR) IN L IN R SUBWOOFER PB PR TV/SAT BD DVD MONITOR OUT Y COMPONENT VIDEO PRE OUT SPEAKERS A 3 1 1 Push open the tabs, then insert one wire fully into each terminal, then release the tabs to secure the AM antenna wires. PR COMPONENT VIDEO IN PB Y 2 Fix the AM loop antenna to the attached stand. To fix the stand to the antenna, bend in the direction indicated by the arrow (fig. a) then clip the loop onto the stand (fig. b). PR COMPONENT VIDEO OUT PB Y 3 Place the AM antenna on a flat surface and in a direction giving the best reception. 4 Connect the FM wire antenna into the FM antenna socket. For best results, extend the FM antenna fully and fix to a wall or door frame.

Don't drape loosely or leave coiled up. TV DVD player 16 En Connecting your equipment 02 Using external antennas To improve FM reception Use a PAL connector (not supplied) to connect an external FM antenna. Connecting to the front panel audio mini jack Front audio connections are accessed via the front panel using the INPUT SELECTOR or PORTABLE button on the remote control. Use a stereo mini-jack cable to connect a digital audio player, etc. PRESET ENTER Plugging in the receiver Only plug in after you have connected all your components to this receiver, including the speakers.

CAUTION · Handle the power cord by the plug part. Do not pull out the plug by tugging the cord, and never touch the power cord when your hands are wet, as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, or other object on the power cord or pinch the cord in any other way. Never make a knot in the cord or tie it with other cables. The power cords should be routed so that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electric shock. Check the power cord once in a while. If you find it damaged, ask your nearest Pioneer authorized independent service company for a replacement. · Do not use any power cord other than the one supplied with this unit. · Do not use the supplied power cord for any purpose other than that described below. · The receiver should be disconnected by removing the mains plug from the wall socket when not in regular use, e.g., when on vacation. Note · After this receiver is connected to an AC outlet, a 2 second to 10 second HDMI initialization process begins. You cannot carry out any operations during this process.

The HDMI indicator in the front panel display blinks during this process, and you can turn on this receiver once it has stopped blinking. When you set the Control with HDMI to OFF, you can skip this process. For details about the Control with HDMI feature, see Control with HDMI function on page 29. SOUND RETRIEVER MASTER VOLUME One-touch PAL connector PORTABLE ANTENNA FM UNBAL 75 75 coaxial cable This receiver To improve AM reception Connect a 5 m to 6 m length of vinyl-coated wire to the AM antenna terminal without disconnecting the supplied AM loop antenna. For the best possible reception, suspend horizontally outdoors. AUDIO OUT Outdoor antenna ANTENNA Digital audio player, etc. AM LOOP Indoor antenna (vinyl-coated wire) 5 m to 6 m 1 Plug the supplied power cord into the AC IN socket on the back of the receiver. 2 Plug the other end into a power outlet. 17 En 03 Basic playback Chapter 3: @@In this case, the remote control won't switch operational modes. If you selected the proper input source and there is still no sound, select the audio input signal for playback (see Selecting the audio input signal below).

Basic playback Canceling the demo display The display on the front panel shows various information (demo displays) when the receiver is not operating. You can turn off the demo display. For details, see The FL Demo Mode menu on page 28. Selecting the audio input signal The audio input signal can be selected for each input source. Once it is set, the audio input that was selected will be applied whenever you select the input source using the input function buttons. DVR/BDR CD CD-R CH 4 Press AUTO/DIRECT to select 'AUTO SURROUND' and start playback of the source. If you're playing a Dolby Digital or DTS surround sound DVD disc, with a digital audio connection, you should hear surround sound. If you're playing a stereo source or if the connection is an analog audio connection, you will only hear sound from the front left/right speakers in the default listening mode. It is possible to check on the front panel display whether or not surround sound playback is being performed properly. When using a surround back speaker, 2D+PLIIx is displayed when playing Dolby Digital 5.

1-channel signals, and DTS+NEO:6 is displayed when playing DTS 5.1-channel signals. When not using a surround back speaker, 2D is displayed when playing Dolby Digital signals. If the display does not correspond to the input signal and listening mode, check the connections and settings. Note · You may need to check the digital audio output settings on your DVD player or digital satellite receiver. It should be set to output Dolby Digital, DTS and 88.2 kHz/96 kHz PCM (2 channel) audio, and if there is an MPEG audio option, set this to convert the MPEG audio to PCM. · Depending on your DVD player or source discs, you may only get digital 2 channel stereo and analog sound. In this case, the receiver must be set to a multichannel listening mode if you want multichannel surround sound. ADAPTER TUNER PORTABLE PHASE S.

RETRIEVER SIGNAL SEL VOL Playing a source Here are the basic instructions for playing a source (such as a DVD disc) with your home theater system.



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BD MENU AUTO/ALC/DIRECT STEREO STANDARD ADV SURR RECEIVER SLEEP TV SOURCE CONTROL AUDIO PARAMETER TOP MENU TUNER EDIT MASTER VOLUME TOOLS MENU RECEIVER INPUT SELECT DTV/TV INPUT TUNE PRESET BD DVD TV ENTER DVR/BDR CD CD-R CH HOME MENU TUNE ADAPTER TUNER PORTABLE SETUP PTY SEARCH BAND RETURN MUTE 1 Switch on your system components and receiver. Start by switching on the playback component (for example a DVD player), your TV and subwoofer (if you have one), then the receiver (press RECEIVER). Press SIGNAL SEL to select the audio input signal corresponding to the source component. Each press cycles through the following: · H Selects an HDMI signal. H can be selected for BD, DVD or DVR/BDR input. For other inputs, H cannot be selected. · When the HDMI option in Setting the Audio options on page 24 is set to THRU, the sound will be heard through your TV, not from this receiver. · A Selects the analog inputs. · C1/O1/O2 Selects the digital input. The coaxial 1 input is selected for C1, and the optical 1 or 2 audio input is selected for O1 or O2. When H (HDMI) or C1/O1/O2 (digital) is selected and the selected audio input is not provided, A (analog) is automatically selected. Note · For the TV/SAT input, only A (analog) or C1/O1/O2 (digital) can be selected. However, if the ARC at HDMI SET is set to ON, the input is fixed to H (HDMI) and cannot be changed. · When set to H (HDMI) or C1/O1/O2 (digital), 2 lights when a Dolby Digital signal is input, and DTS lights when a DTS signal is input.

· When the H (HDMI) is selected, the A and DIGITAL indicators are off (see page 7). 2 Switch the TV input to the input that connects this receiver. For example, if you connected this receiver to the VIDEO jacks on your TV, make sure that the VIDEO input is now selected. 3 Press input function buttons to select the input function you want to play. · @@To operate the receiver, first press RECEIVER on the remote control, then press the appropriate button to operate.

18 En PRESET 5 Use MASTER VOLUME to adjust the volume level. Turn down the volume of your TV so that all sound is coming from the speakers connected to this receiver. Basic playback · When digital input (optical or coaxial) is selected, this receiver can only play back Dolby Digital, PCM (32 kHz to 96 kHz) and DTS (including DTS 96 kHz/24 bit) digital signal formats. The compatible signals via the HDMI terminals are: Dolby Digital, DTS, SACD (DSD 2 ch only), PCM (32 kHz to 192 kHz sampling frequencies), Dolby TrueHD, Dolby Digital Plus, DTS-EXPRESS, DTS-HD Master Audio and DVD Audio (including 192 kHz). With other digital signal formats, set to A (analog). Tip ADAPTER TUNER PORTABLE 03 · You may get digital noise when a LD or CD player compatible with DTS is playing an analog signal. To prevent noise, make the proper digital connections (page 13) and set the signal input to C1/O1/O2 (digital). · Some DVD players don't output DTS signals. For more details, refer to the instruction manual supplied with your DVD player. Listening to the radio The following steps show you how to tune in to FM and AM radio broadcasts using the automatic (search) and manual (step) tuning functions.

Once you are tuned to a station you can memorize the frequency for recall later--see Saving station presets below for more on how to do this. AUDIO PARAMETER DVR/BDR CD CD-R CH TOP MENU TUNE TUNER EDIT MASTER VOLUME TOOLS MENU PRESET PRESET ENTER · In order to enjoy the picture and/or sound from devices connected to each terminal, select the input by doing the following. Audio Audio (CD input) Other than CD input SIGNAL SEL PHASE S.RETRIEVER SIGNAL SEL VOL HOME MENU SETUP PTY SEARCH TUNE BAND RETURN MUTE 1. Video/Audio DVR/BDR DVD BD CD 1. 2. TV (TV/SAT input) Other than TV/SAT input SIGNAL SEL 1 Press TUNER to select the tuner. 2 Use BAND to change the band (FM or AM), if necessary. Each press switches the band between FM (stereo or mono) and AM. 2. (HDMI) HDMI DVR/BDR IN DVD IN BD IN C1 OUT O1 COAXIAL IN 1 ASSIGNABLE (CD) (TV/SAT) (CD-R/TAPE) 3 Tune to a station. There are three ways to do this: Audio IN 1 IN 2 OPTICAL ASSIGNABLE VIDEO AUDIO DVR/BDR CD-R/TAPE SURR BACK L 1. CD-R (CD-R input) Video TV BD MONITOR TV/SAT OUT IN 2. Other than CD-R input SIGNAL SEL Automatic tuning To search for stations in the currently selected band, press and hold TUNE / for about a second. The receiver will start searching for the next station, stopping when it has found one. Repeat to search for other stations. Manual tuning To change the frequency one step at a time, press TUNE /. High speed tuning Press and hold TUNE / for high speed tuning. Release the button at the frequency you want. BD IN (Single) OUT PRE OUT O2 ANTENNA FM UNBAL 75 AM LOOP DVR/BDR DVD DVR/ BDR OUT IN DVD IN IN R CD L IN R TUNER Video DVD IN 1 (DVD) ASSIGNABLE (DVR/ Audio L IN IN R IN 2 DVR/BDR CD-R CD SIGNAL SEL Improving FM sound A If the TUNE or ST indicators don't light when tuning to an FM station because the signal is weak, set the receiver to the mono reception mode. Press BAND to select FM MONO. This should improve the sound quality and allow you to enjoy the broadcast. DVR/BDR BDR) TV BD DVD Reassignable (page 27) MONITOR OUT Y PB PR TV/SAT BD DVD COMPONENT VIDEO 19 En 03 Basic playback Saving station presets If you often listen to a particular radio station, it's convenient to have the receiver store the frequency for easy recall whenever you want to listen to that station. This saves the effort of manually tuning in each time. This unit can memorize up to 30 stations. AUDIO PARAMETER TV SOURCE CONTROL TOP MENU Listening to station presets You will need to have some presets stored to do this. See Saving station presets above if you haven't done this already. Press PRESET / to select the station preset you want. · You can also use the number buttons on the remote control to recall the station preset. An introduction to RDS Radio Data System (RDS) is a system used by most FM radio stations to provide listeners with various kinds of information--the name of the station and the kind of show they're broadcasting, for example.

One feature of RDS is that you can search by type of program. For example, you can search for a station that's broadcasting a show with the program type, JAZZ. You can search the following program types: NEWS News AFFAIRS Current Affairs INFO General Information SPORT Sport EDUCATE Educational DRAMA Radio plays, etc. CULTURE National or regional culture, theater, etc. SCIENCE Science and technology VARIED Usually talk-based material, such as quiz shows or interviews.



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POP M Pop music ROCK M Rock music EASY M Easy listening LIGHT M 'Light' classical music CLASSICS 'Serious' classical music OTHER M Music not fitting above categories WEATHER Weather reports FINANCE Stock market reports, commerce, trading, etc. CHILDREN Programs for children SOCIAL Social affairs RELIGION Programs concerning religion PHONE IN Public expressing their views by phone TRAVEL Holiday-type travel rather than traffic announcements LEISURE Leisure interests and hobbies JAZZ Jazz COUNTRY Country music NATION M Popular music in a language other than English OLDIES Popular music from the '50s and '60s FOLK M Folk music DOCUMENT Documentary TUNE TUNER EDIT MASTER VOLUME TOOLS MENU RECEIVER SLEEP PRESET Naming preset stations For easier identification, you can name all of your preset stations. BAND PRESET RECEIVER INPUT SELECT DTV/TV INPUT ENTER BD DVD TV HOME MENU SETUP PTY SEARCH TUNE RETURN MUTE 1 Choose the station preset you want to name. See Listening to station presets above for how to do this. DVR/BDR CD CD-R CH 2 Press TUNER EDIT twice. ADAPTER TUNER PORTABLE BASS TRE The cursor at the first character position is blinking on the display. PHASE S.RETRIEVER SIGNAL SEL VOL HDD DVD VCR 3 Input the name you want. DISP 1 2 3 1 Tune to a station you want to memorize. See Listening to the radio on page 19 for more on this. 2 Press TUNER EDIT. The display shows PRESET, then a blinking MEM and station preset. Choose a name up to eight characters long. Use PRESET / to select character position. Use TUNE / to select characters. The name is stored when ENTER is pressed. Tip To erase a station name, follow steps 1 and 2, and press ENTER while the display is blank. Press TUNER EDIT while the display is blank, to keep the previous name. Once you have named a station preset, Press DISP to show the name. When you want to return to the frequency display, press DISP several times to show the frequency. 3 Press PRESET / to select the station preset you want. You can also use the number buttons. 4 Press ENTER. The preset number stop blinking and the receiver stores the station. Note If the receiver is left disconnected from the AC power outlet for over a month, the station memories will be lost and will have to be reprogrammed.

Stations are stored in stereo. When the station is stored in the FM MONO mode, it shows as ST when recalled. Note In addition, there are three other program types, ALARM, ALARMTST, and NO TYPE. ALARM and ALARMTST are used for emergency announcements. NO TYPE appears when a program type cannot be found. 20 En Basic playback 03 AUDIO PARAMETER RECEIVER SLEEP TV SOURCE CONTROL TOP MENU TUNE TUNER EDIT MASTER VOLUME TOOLS MENU Displaying RDS information Use the DISP button to display the different types of RDS information available. Press DISP for RDS information. Each press changes the display as follows: Listening mode Program Service Name (PS) The name of the radio station. Program Type (PTY) This indicates the kind of program currently being broadcast. Repeat to search for other stations. RDS searches station presets only. into the recording device and set the recording levels. Some video sources are copy-protected. Choose one according to your speaker environment or the source. Dolby Digital and DTS multichannel sources are downmixed to stereo. You can also adjust the C.WIDTH, DIMEN. and PNRM. effect (see Setting the Audio options on page 24). c. This mode can only be selected when surround back channel processing (page 24) is switched off. e. You can choose the STEREO mode by using STEREO button. The audio is heard with your surround settings and you can still use the Midnight, Loudness, Phase Control, Sound Retriever and Tone functions. Note In modes that give 6.1 channel sound, the same signal is heard from both surround back speakers.

22 En Listening to your system 04 Using the Advanced surround BD MENU ADV SURR ADVANCED SURROUND Using Stream Direct AUTO/ DIRECT AUTO SURROUND/ STREAM DIRECT Better sound using Phase Control This receiver's Phase Control feature uses phase correction measures to make sure your sound source arrives at the listening position in phase, preventing unwanted distortion and/or coloring of the sound. Phase Control technology provides coherent sound reproduction through the use of phase matching for an optimal sound image at your listening position. The default setting is on and we recommend leaving Phase Control switched on for all sound sources. ADAPTER TUNER PORTABLE The Advanced surround feature creates a variety of surround effects. Try different modes with various soundtracks to see which you like. ACTION DRAMA ENT.SHOW SPORTS CLASSICAL ROCK/POP UNPLUGGED EXT.STEREO F.S.S.

ADVANCE (Front Stage Surround ADVANCE) Designed for action movies with dynamic soundtracks. Designed for movies with lots of dialog. Suitable for musical sources. Suitable for sports programs. Gives a large concert hall-type sound Creates a live concert sound for rock and/or pop music. Suitable for acoustic music sources. Gives multichannel sound to a stereo source, using all of your speakers Allows you to create natural surround sound effects using just the front speakers and the subwoofer. Use to provide a rich surround sound effect directed to the center of where the front left and right speakers sound projection area converges. Front left speaker Front right speaker Use the Stream Direct modes when you want to hear the truest possible reproduction of a source. All unnecessary signal processing is bypassed.

AUTO SURROUND See Auto playback on page 22. DIRECT Sources are heard according to the settings made in the Speaker Setup (speaker setting, channel level, speaker distance), as well as with dual mono settings. You will hear sources according to the number of channels in the signal. Phase Control, Sound Delay, Auto Delay, LFE Attenuate and Center image functions are available. Analog and PCM sources are heard without any digital processing.

ADVANCED GAME Suitable for video games. PHASE S.RETRIEVER SIGNAL SEL VOL PURE DIRECT Using the Sound Retriever When audio data is removed during the compression process, sound quality often suffers from an uneven sound image. The Sound Retriever feature employs new DSP technology that helps bring CD quality sound back to compressed 2-channel audio by restoring sound pressure and smoothing jagged artifacts left over after compression.



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## ADAPTER TUNER PORTABLE PHASE S.

**RETRIEVER SIGNAL SEL VOL PHONES SURR** When listening through headphones, you can still get the effect of overall surround. Press **S.RETRIEVER** to switch the **S.RTV** (Sound Retriever) **ON** or **OFF**. Note · The Sound Retriever is only applicable to 2-channel sources. Press **PHASE** to switch the **P.CTL** (Phase Control) **ON** or **OFF**. Note · Phase matching is a very important factor in achieving proper sound reproduction. If two waveforms are 'in phase', they crest and trough together, resulting in increased amplitude, clarity and presence of the sound signal. If a crest of a wave meets a trough, then the sound will be 'out of phase' and an unreliable sound image will be produced.

· If your subwoofer has a phase control switch, set it to the plus (+) sign (or 0°). However, the effect you can actually feel when Phase Control is set to **ON** on this receiver depends on the type of your subwoofer. Set your subwoofer to maximize the effect. It is also recommended you try changing the orientation or the place of your subwoofer. · Set the built-in lowpass filter switch of your subwoofer to **OFF**.

@@ The defaults, if not stated, are listed in bold. @@@ Use / to select the setting you want to adjust. Depending on the current status/mode of the receiver, certain options may not be able to be selected. Check the table below for notes on this. Press **RECEIVER**, then press **SB CH** repeatedly to cycle the surround back channel options.

Each press cycles through the options as follows: · **SB ON** Matrix decoding processing for generating the surround back component from the surround component is turned on. · **SB AUTO** Matrix decoding processing for generating the surround back component from the surround component is switched automatically. Matrix decoding processing is only performed when surround back channel signals are detected in the input signals. · **SB OFF** Matrix decoding processing for generating the surround back component from the surround component is turned off. 1 Switch the receiver into standby. 2 While holding down **PRESET** on the front panel, and hold the **STANDBY/ON** for about two seconds. **UP MIX**: **OFF** appears and the Up Mix function turns off. If you want to turn this function on, perform steps 1 and 2 again. · When set to **ON**, the panel lights. (Up Mix) indicator on the front 3 Use / to set it as necessary.

See the table below for the options available for each setting. 4 Press **RETURN** to confirm and exit the menu. Setting/What it does **S.DELAY** (Sound Delay) Some monitors have a slight delay when showing video, so the soundtrack will be slightly out of sync with the picture. By adding a bit of delay, you can adjust the sound to match the presentation of the video. **MIDNIGHT/LOUDNESS** The **MIDNIGHT** allows you to hear effective surround sound of movies at low volumes. The **LOUDNESS** is used to get good bass and treble from music sources at low volumes. Option(s) 0.0 to 9.0 (frames) 1 second = 25 frames (PAL) Default: 0.

0 **M/L OFF MIDNIGHT LOUDNESS** Note · Set to **ON** regardless of this setting when playing **DTS-HD** signals. · May automatically be set to **OFF** even when set to **ON**, depending on the input signal and listening mode. 24 En Listening to your system 04 Setting/What it does **S.RTV** (Sound Retriever) b When audio data is removed during the compression process, sound quality often suffers from an uneven sound image. The Sound Retriever feature employs new DSP technology that helps bring CD quality sound back to compressed 2-channel audio by restoring sound pressure and smoothing jagged artifacts left over after compression.

**DUAL MONO** c Specifies how dual mono encoded Dolby Digital soundtracks should be played. Option(s) **OFF ON** Setting/What it does **LFE ATT** (LFE Attenuate) Some Dolby Digital and DTS audio sources include ultra-low bass tones. Set the LFE attenuator as necessary to prevent the ultralow bass tones from distorting the sound from the speakers. The LFE is not limited when set to 0 dB, which is the recommended value. When set to 15 dB, the LFE is limited by the respective degree.

When **OFF** is selected, no sound is output from the LFE channel. **SACD G.** (SACD Gain) e Brings out detail in SACDs by maximizing the dynamic range (during digital processing). **HDMI** (HDMI Audio) Specifies the routing of the HDMI audio signal out of this receiver (**AMP**) or through to a TV (**THRU**).

When **THRU** is selected, no sound is output from this receiver. **A.DLY** (Auto Delay) f This feature automatically corrects the audio-video delay between components connected with an HDMI cable. The audio delay time is set depending on the operational status of the display connected with an HDMI cable. The video delay time is automatically adjusted according to the audio delay time. C.

**WIDTH** (Center Width) g (Applicable only when using a center speaker) Spreads the center channel between the front right and left speakers, making it sound wider (higher settings) or narrower (lower settings). **DIMEN** (Dimension) h Adjusts the surround sound balance from front to back, making the sound more distant (minus settings), or more forward (positive settings). Option(s) 0 (0 dB) 5 (5 dB) 10 (10 dB) 15 (15 dB) 20 (20 dB) \*\* (**OFF**) Setting/What it does **PNRM.** (Panorama) g Extends the front stereo image to include surround speakers for a 'wraparound' effect. Option(s) **OFF ON CH1** Channel 1 is heard only **CH2** Channel 2 is heard only **CH1 CH2** Both channels heard from front speakers 0 to 10 **C.IMG** (Center Image) h Default: 3 (Applicable only when using a center speaker) (**NEO:6 MUSIC**), Adjust the center image to create a wider 10 (**NEO:6** stereo effect with vocals. Adjust the effect **CINEMA**) from 0 (all center channel sent to front right and left speakers) to 10 (center channel sent to the center speaker only). a. You can change the **MIDNIGHT/LOUDNESS** options at any time by using **MIDNIGHT** button. b.

You can change the Sound Retriever feature at any time by using **S.RETRIEVER** button. c. This setting works only with dual mono encoded Dolby Digital and DTS soundtracks. d.

The initial set **AUTO** is only available for Dolby TrueHD signals. Select **MAX** or **MID** for signals other than Dolby TrueHD. e. You shouldn't have any problems using this with most SACD discs, but if the sound distorts, it is best to switch the gain setting back to 0 dB. f.

This feature is only available when the connected display supports the automatic audio/video synchronizing capability ('lip-sync') for HDMI. If you find the automatically set delay time unsuitable, set **A.DLY** to **OFF** and adjust the delay time manually. For more details about the lip-sync feature of your display, contact the manufacturer directly. g. Only available with 2-channel sources in **DOLBY PLII MUSIC** mode. h. Only when listening to 2-channel sources in **NEO:6 CINEMA** and **NEO:6 MUSIC** mode. 0 (0 dB) +6 (+6 dB) **AMP THRU F.PCM** (Fixed PCM) This is useful if you find there is a slight delay before **OFF** recognizes the PCM signal on a CD, for instance.



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