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You can read the recommendations in the user guide, the technical guide or the installation guide for PIONEER VSX-416-S. You'll find the answers to all your questions on the PIONEER VSX-416-S 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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**AUDIO/VIDEO MULTI-CHANNEL
RECEIVER**

VSX-416-S/-K

VSX-516-S/-K



Operating Instructions



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Manual abstract:

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. @@@@This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. @@@@A 10 amp fuse is fitted in this plug. @@@@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 a new plug is to be fitted, please observe the wiring code as shown below. If in any doubt, please consult a qualified electrician. **IMPORTANT:** The wires in this mains lead are coloured in accordance with the following code: Blue : Neutral Brown : Live As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows ; The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. How to replace the fuse: Open the fuse compartment with a screwdriver and replace the fuse. D3-4-2-1-2-2_B_En Voltage selector You can find the voltage selector switch on the rear panel of multi-voltage models. The factory setting for the voltage selector is 220 V. Please set it to the correct voltage for your country or region.

· Saudi Arabia operates on 127 V and 220 V mains voltage. Please set to the correct voltage before using. · For Taiwan, please set to 110 V before using. · For Mexico, please set to 120 V to 127 V before using. Before changing the voltage, disconnect the AC power cord. Use a medium size screwdriver to change the voltage selector switch. **TWO VOLTAGE SELECTORS WARNING** To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the D3-4-2-1-7a_A_En equipment. **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_A_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). 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 D3-4-2-2-1a_A_En on vacation). 220V 110V 240V 120 -127V 110V 120 - 127V Medium-size screwdriver 220V 240V D3-4-2-1-5_En For Taiwan exclusively Taiwanese two pin flat-bladed plug **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 D3-4-2-1-7b_A_En equipment on thick carpet or a bed. **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 D3-4-2-1-7c_A_En strong artificial light) 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 K041_En warranty period. **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 D3-4-2-1-3_A_En or moisture. Contents 01 Before you start Checking what's in the box . .

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50 52 52 53 54 Before you sListening to Surround Sound This receiver was designed with the easiest possible setup in mind, so with the following quick setup guide, you should have your system hooked up for surround sound in no time at all. In most cases, you can simply leave the receiver in the default settings. · Be sure to complete all connections before connecting to an AC power source. 3 Plug in and switch on the receiver, followed by your DVD player, subwoofer and TV.

Make sure you've set the video input on your TV to this receiver. Check the manual that came with the TV if you don't know how to do this. 4 Press QUICK SETUP on the front panel to specify your speaker setup, room size and listening position. Use the MULTI JOG dial to select and ENTER to confirm your selection. See Using the Quick Setup below for more on this. 5 Play a DVD, and adjust the volume. Make sure that DVD/LD is showing in the receiver's display, indicating that the DVD input is selected. If it isn't, lly setting up for surround sound (MCACC) The Auto Multi-Channel Acoustic Calibration (MCACC) setup measures the acoustic characteristics of your listening area, taking into account ambient noise, speaker size and distance, and tests for both channel delay and channel level. After you have set up the microphone provided with your system, the receiver uses the information from a series of test tones to optimize the speaker settings and equalization for your particular room. Important · The Auto MCACC Setup will overwrite any existing speaker settings you've made.

· Make sure the headphones are unplugged. Caution · The test tones used in the Auto MCACC Setup are output at high volume. RECEIVER CONTROL ONE TOUCH COPY MCACC SETUP MIC DOWN UP Français If you have a tripod, use it to place the microphone so that it's about ear level at your normal listening position. Otherwise, place the microphone at ear level using a table or a chair. 2 If the receiver is off, press turn the power on. 3 RECEIVER to Italiano If you have a subwoofer, turn it on. 4 Press RECEIVER on the remote control, then press the SETUP button. · Press SETUP again at any time to exit the System Setup menu.1 5 Select 'A. MCACC' from the System Setup menu then press ENTER.

Try to be as quiet as possible after pressing ENTER. The system outputs a series of test tones to establish the ambient noise level. If the noise level is too high, NOISY! blinks in the display for five seconds. To exit and check the noise levels again, press SETUP (see the notes about ambient noise below) or press ENTER when you're prompted to RETRY?. · Do not adjust the volume during the test tones.

This may result in incorrect speaker settings. The system now checks the microphone and your speaker setup. Nederlands Español CH+ TUNE MENU RECEIVER INPUT SELECT SOURCE TOP MENU DTV MENU ANALOG ATT T.EDIT ST ST ENTER GUIDE TUNE TV CTRL MULTI CONTROL TV/SAT DVR/VCR RETURN SETUP CHREC DVD/LD CD-R/TAPE DVDs.1 CD FM AM RECEIVER MIDNIGHT/ SUBTITLE DTV ON/OFF AUDIO 1 Connect the microphone to the MCACC SETUP MIC jack on the front panel.

Make sure there are no obstacles between the speakers and the microphone. Note 1 The receiver will automatically exit the current menu after three minutes of inactivity. If you cancel the Auto MCACC Setup at any time, the receiver automatically exits and no settings will be made. 9 En 03 Quick surround sound setup If you see an ERR message in the display, there may be a problem with your mic or the speaker connections. Turn off the power, and check the problem indicated by the ERR message (see below), then try the auto surround setup again. · ERR MIC Check microphone connection. The settings made in the Auto MCACC Setup should give you excellent surround sound from your system, but it is also possible to adjust these settings manually using the System Setup menu (starting on page 34).1 Optionally, when you see SKIP? you can press / (cursor up/down) to select one of the following options then press ENTER, and use / (cursor up/down) to check the settings: · CHK SP Check the size and number of speakers you've connected (see page 38 for more on this) · CHK DIST.

Check the distance of your speakers from the listening position (see page 39 for more on this) · CHK LEVEL Check the overall balance of your speaker system (see page 39 for more on this) · CHK EQ Select either ALL CH or F ALIGN to check the adjustments to the frequency balance of your speaker system based on the acoustic characteristics of your room (see page 36 for more on this) · ERR Fch Check front speaker connections.



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·ERR Sch Check surround speaker connections.

·ERR SBch Check surround back speaker connection. ·ERR SW Make sure the subwoofer has been switched on and volume on the subwoofer is turned up. 6 When you see CHECK OK in the display, confirm your speaker configuration. Use / (cursor up/down) to check each speaker in turn. YES or NO should reflect the actual speakers connected. If the speaker configuration displayed isn't correct, use / (cursor left/right) to change the setting. When you're finished, go to the next step. 7 Select CHECK OK in the display then press ENTER. The Auto MCACC checks the subwoofer level. ·If the subwoofer output level is too high/low, SW.

VOL.DWN/SW.VOL.UP blinks in the display for five seconds. To exit and check your subwoofer output level, press SETUP or simply press ENTER when you're prompted to RETRY?.

The receiver outputs more test tones to determine the optimum receiver settings for speaker setting, channel level, speaker distance, and Acoustic Calibration EQ. 9 When you're finished, select 'SKIP?' to go back to the System Setup menu. ·Remember to disconnect the microphone after completing the Auto MCACC Setup. Other problems during Auto MCACC If the room environment is not optimal for the Auto MCACC Setup (too much background noise, echo off the walls, obstacles blocking the speakers from the microphone) the final settings may be incorrect. Check for household appliances (air conditioner, fridge, fan, etc.

), that may be affecting the environment and switch them off if necessary.2 If there are any instructions showing in the front panel display, please follow them.

8 The Auto MCACC Setup has finished! The front panel MCACC indicator lights to show the surround settings are complete. Note 1 ·Depending on the characteristics of your room, sometimes identical speakers with cone sizes of around 12cm will end up with different size settings. You can correct the setting manually using the Speaker setting on page 38. ·The subwoofer distance setting may be farther than the actual distance from the listening position. This setting should be accurate (taking delay and room characteristics into account) and generally does not need to be changed. 2 Some older TVs may interfere with operation of the mic. You may want to switch off your TV during the Auto MCACC Setup. 10 En Connecting up 04 Chapter 4: English Connecting up Analog audio cables 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. Deutsch 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. Analog audio cables Français Right (red) Left (white) Italiano Digital audio cables Important ·Before making or changing any connections, switch off the power and disconnect the power cord from the AC outlet. ·Before unplugging the power cord, switch the power into standby. Coaxial digital audio cable Optical cable Commercially available coaxial digital audio cables or optical cables should be used to connect digital components to this receiver.1 Nederlands Español Video cables Standard RCA video cables These cables are the most common type of video connection and should be used to connect to the composite video terminals. They have yellow plugs to distinguish them from cables for audio. Standard RCA video cable Note 1 ·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. 11 En 04 Connecting up Connecting a TV and DVD player This page shows you how to connect your DVD player and TV to the receiver. 1 Connect a coaxial digital audio output on your DVD player to the DIGITAL COAX 1 (DVD/LD) input on this receiver. Use a coaxial digital audio cable for the connection.

1 2 Connect the composite video output and the stereo analog audio outputs2 on your DVD player to the DVD/LD inputs on this receiver. Use a standard RCA video cable and a stereo RCA phono cable for the connection. ·If your DVD player has multichannel analog outputs, see Connecting the multichannel analog outputs below for how to connect it. DIGITAL AUDIO OUT OPTICAL 3 ANALOG AUDIO OUT R L TV VIDEO IN 4 FM UNBAL 75 IN CD AM LOOP ANTENNA IN OPT DVR / VCR 1 (CD) ASSIGNABLE DIGITAL IN OUT TV / SAT IN VIDEO IN OUT IN ASSIGNABLE DIGITAL IN IN COAX DVD /LD FRONT PLAY DVD 5.1CH INPUT MONITOR OUT SUB WOOFER PREOUT 2 (DVR/VCR) IN COAX 3 Connect the analog audio outputs from your TV to the TV/SAT inputs on this receiver.

This will allow you to play the sound from the TV's built-in tuner. Use a stereo RCA phono cable to do this. ·If your TV has a built-in digital decoder, you can also connect an optical digital audio output from your TV to the DIGITAL OPT 1 (CD) input on this receiver. Use an optical cable for the connection.3 1 (DVD/LD) OUT CD-R / TAPE / MD IN R AUDIO L REC This receiver 1 2 COAXIAL DIGITAL OUT R AUDIO L ANALOG OUT VIDEO OUT 4 Connect the MONITOR OUT video jack on this receiver to a video input on your TV. Use a standard RCA video cable to connect to the composite video jack. DVD player Note 1 If your DVD player only has an optical digital output, you can connect it to the optical input on this receiver using an optical cable. When you set up the receiver you'll need to tell the receiver which input you connected the player to (see The Input Assign menu on page 39). 2 This connection will allow you to make analog recordings from your DVD player. 3 In this case, you'll need to tell the receiver which digital input you connected the TV to (see The Input Assign menu on page 39).

12 En Connecting up 04 Connecting the multichannel analog outputs For DVD Audio and SACD playback, your DVD player may have 5.1 channel analog outputs. In this case, you can connect them to the multichannel inputs of the receiver as shown below.1 1 Connect a set of audio/video outputs on the set-top box component to the TV/SAT AUDIO and VIDEO inputs on this receiver.2 Use a stereo RCA phono cable for the audio connection and a standard RCA video cable for the video connection. 2 If your set-top box has a digital output, connect it to a digital input on this receiver. The example shows an optical connection to the DIGITAL OPT 1 (CD) input.3 English Deutsch This receiver CEN- SUB TER WOOFER FM UNBAL 75 IN CD AM LOOP ANTENNA R L SURROUND DVD 5.



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1 CH INPUT IN OPT DVR / VCR This receiver L FM UNBAL 75 IN CD AM LOOP ANTENNA Français 1 (CD) ASSIGNABLE DIGITAL IN OUT TV / SAT IN DVD / LD FRONT PLAY IN CD-R / TAPE / MD DVD 5.1 CH INPUT VIDEO IN OUT IN ASSIGNABLE DIGITAL IN MONITOR OUT SUB WOOFER PREOUT IN COAX 2 (DVR/VCR) IN COAX 1 (DVD/LD) OUT R AUDIO L REC S P E A K E R S R FRONT IN OPT DVR / VCR 1 (CD) ASSIGNABLE DIGITAL IN OUT TV / SAT IN VIDEO Italiano IN OUT IN ASSIGNABLE DIGITAL IN IN COAX DVD / LD FRONT PLAY DVD 5.

1 CH INPUT MONITOR OUT SUB WOOFER PREOUT 2 (DVR/VCR) IN COAX 1 (DVD/LD) OUT CD-R / TAPE / MD IN R L FRONT OUTPUT CENTER OUTPUT R L R AUDIO L REC Nederlands SURROUND OUTPUT SUB WOOFER OUTPUT VIDEO OUTPUT DVD/multi-channel decoder with multi-channel analog output jacks 2 DIGITAL OUT 1 Español OPTICAL COAXIAL R AUDIO L AV OUT VIDEO 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'. STB Note 1 The multichannel input can only be used when DVD 5.1 ch is selected (see page 33). 2 If you've already connected your TV to the TV/SAT inputs, simply choose another input. However, you'll need to remember which input you connected the set-top box to.

3 In this case, you'll need to tell the receiver which digital input you connected the set-top box to (see The Input Assign menu on page 39). 13 En 04 Connecting up Connecting other audio components The number and kind of connections depends on the kind of component you're connecting. 1 Follow the steps below to connect a CD-R, MD, DAT, tape recorder or other audio component. This receiver FM UNBAL 75 IN CD AM LOOP ANTENNA IN OPT DVR / VCR 1 (CD) ASSIGNABLE DIGITAL IN OUT TV / SAT IN VIDEO IN OUT 1 If your component has a digital output, connect this to a digital input on the receiver. The example shows an optical connection to the DIGITAL OPT 1 (CD) input.

2 If necessary, connect the analog audio outputs of the component to a set of spare audio inputs on this receiver. You'll need to make this connection for components without a digital output, or if you want to record from a digital component. Use a stereo RCA phono cable as shown. 3 If you're connecting a recorder, connect the analog audio outputs (REC) to the analog audio inputs on the recorder. The example shows an analog connection to the CD-R/TAPE/MD analog output jack using a stereo RCA phono cable. IN ASSIGNABLE DIGITAL IN IN COAX DVD / LD FRONT PLAY DVD 5.1 CH INPUT MONITOR OUT SUB WOOFER PREOUT 2 (DVR/VCR) IN COAX 1 (DVD/LD) OUT CD-R / TAPE / MD IN R AUDIO L REC 1 3 2 OPTICAL COAXIAL R REC IN L R OUT PLAY L DIGITAL OUT AUDIO IN AUDIO OUT CD-R, MD, DAT, Tape recorder, etc. About the WMA9 Pro decoder This unit has an on-board Windows Media® Audio 9 Professional (WMA9 Pro) decoder, so it is possible to playback WMA9 Pro-encoded audio using a coaxial or optical digital connection when connected to a WMA9 Pro-compatible player. However, the connected DVD player, set-top box, etc. must be able to output WMA9 Pro format audio signals through a coaxial or optical digital output.

Note 1 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. 14 En Connecting up 04 Microsoft, Windows Media®, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries. This receiver English FM UNBAL 75 IN CD AM LOOP ANTENNA Connecting other video components This receiver has audio/video inputs and outputs suitable for connecting analog or digital video recorders, including VCRs, DVD recorders and HDD recorders.

IN OPT DVR / VCR 1 (CD) ASSIGNABLE DIGITAL IN OUT TV / SAT IN VIDEO Deutsch IN OUT IN ASSIGNABLE DIGITAL IN IN COAX DVD / LD FRONT PLAY DVD 5.1 CH INPUT MONITOR OUT SUB WOOFER PREOUT 2 (DVR/VCR) IN COAX 1 (DVD/LD) OUT CD-R / TAPE / MD IN 1 Connect a set of audio/video outputs on the recorder to the DVR/VCR AUDIO and VIDEO inputs on this receiver. Use a stereo RCA phono cable for the audio connection and a standard RCA video cable for the video connection. 2 Connect a set of audio/video inputs on the recorder to the DVR/VCR AUDIO and VIDEO outputs on this receiver. Use a stereo RCA phono cable for the audio connection and a standard RCA video cable for the video connection. 3 If your video component has a digital audio output, connect it to a digital input on this receiver. The example shows a recorder connected to the DIGITAL COAX 2 (DVR/VCR) input.

1 R AUDIO L REC Français 3 2 1 Italiano OPTICAL COAXIAL R REC IN L VIDEO IN R OUT PLAY L VIDEO OUT DIGITAL OUT AUDIO IN AUDIO OUT Nederlands DVR, VCR, LD player, etc. Español Note 1 If your video component doesn't have a digital audio output, omit this step. If it only has an optical digital output, you can connect it to the optical input on this receiver using an optical cable. When you set up the receiver you'll need to tell the receiver which input you connected the component to (see The Input Assign menu on page 39). 15 En 04 Connecting up Using external antennas 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 fig. c To improve FM reception Connect an external FM antenna as shown below.

75 coaxial cable 3 J-shaped plug FM UNBAL 75 AM LOOP ANTENNA 5 FM UNBAL 75 AM LOOP ANTENNA To improve AM reception 4 2 1 Connect a 5 to 6 meter length of vinyl-coated wire to the AM antenna terminal without disconnecting the supplied AM loop antenna. Outdoor antenna 1 Pull off the protective shields of both AM antenna wires. 2 Push open the tabs, then insert one wire fully into each terminal, then release the tabs to secure the AM antenna wires. 3 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). If you plan to mount the AM antenna to a wall or other surface, secure the stand with screws (fig. c) before clipping the loop to the stand. Make sure the reception is clear.

5 to 6 meters Indoor antenna (vinyl-coated wire) FM UNBAL 75 AM LOOP ANTENNA For the best possible reception, suspend horizontally outdoors. 4 Place the AM antenna on a flat surface and in a direction giving the best reception.



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5 Connect the FM wire antenna in the same way as the AM loop antenna. For best results, extend the FM antenna fully and fix to a wall or door frame. Don't drape loosely or leave coiled up. 16 En Connecting up 04 English Connecting the speakers A complete speaker setup is shown below, but everyone's home setup will vary. Simply connect the speakers you have in the manner illustrated. The receiver will work with just two stereo speakers (the front speakers in the diagram) but using at least three speakers (VSX-416 model) / four speakers (VSX-516 model) is recommended, and a complete setup is best for surround sound. If you're not using a subwoofer, change the front speaker setting (see Speaker setting on page 38) to LARGE. Make sure you connect the speaker on the right to the right terminal and the speaker on the left to the left terminal.

Also make sure the positive and negative (+/-) terminals on the receiver match those on the speakers. You can use speakers with a nominal impedance between 6 to 16 (please see Switching the speaker impedance on page 52 if you plan to use speakers with an impedance of less than 8). Be sure to complete all connections before connecting this unit to the AC power source. Front speakers L R Deutsch Français Center speaker C (VSX-516 model only) Surround speakers Surround back speaker Italiano LS RS SB Nederlands CEN- SUB TER WOOFER TWO VOLTAGE SELECTORS FM UNBAL 75 IN CD R IN OPT SURROUND DVD 5.1CH INPUT L 220V 110V 240V 120 - 127V AM LOOP ANTENNA DVR / VCR 1 (CD) ASSIGNABLE DIGITAL IN OUT TV / SAT IN VIDEO Español IN OUT IN ASSIGNABLE DIGITAL IN IN COAX DVD /LD FRONT PLAY DVD 5.

1CH INPUT MONITOR OUT SUB WOOFER PREOUT 2 (DVR/VCR) IN COAX 1 (DVD/LD) OUT CD-R / TAPE / MD IN R AUDIO L REC S P E A K E R S R FRONT LR SURROUND L CENTER SURROUND BACK AC IN 110V 120 - 127V 220V 240V Powered subwoofer SW INPUT VSX-416 model 1 10 mm VSX-516 model 1 10 mm 2 3 2 3 The illustration shows the VSX-516, but connections for the VSX-416 are the same. 17 En 04 Connecting up VSX-416 model 1 2 3 Twist exposed wire strands together. Push open the tabs and insert exposed wire. Release the tabs. · Place the front left and right speakers at equal distances from the TV.

· When placing speakers near the TV, we recommend using magnetically shielded speakers to prevent possible interference, such as discoloration of the picture when the TV is switched on. If you do not have magnetically shielded speakers and notice discoloration of the TV picture, move the speakers farther away from the TV. · Place the center speaker above or below the TV so that the sound of the center channel is localized at the TV screen. · If possible, place the surround speakers slightly above ear level. · Try not to place the surround speakers further away from the listening position than the front and center speakers. Doing so can weaken the surround sound effect. · To achieve the best possible surround sound, install your speakers as shown below. Be sure all speakers are installed securely to prevent accidents and improve sound quality. Caution · If you choose to install the center speaker on top of the TV, be sure to secure it with putty, or by other suitable means, to reduce the risk of damage or injury resulting from the speaker falling from the TV in the event of external shocks such as earthquakes. · Make sure no exposed speaker wire is touching the rear panel, this may cause the receiver to turn off automatically.

VSX-516 model 1 2 3 Twist exposed wire strands together. Loosen terminal and insert exposed wire. Tighten terminal. Speaker terminals 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 is touching the back panel when you switch the unit on, the power may cut off as a safety measure. Use good quality speaker wire to connect the speakers to the receiver. 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. Hints on speaker placement Speakers are usually designed with a particular placement in mind. Some are designed to be floorstanding, while others should be placed on stands to sound their best.

Some should be placed near a wall; others should be placed away from walls. We have provided a few tips on getting the best sound from your speakers (following), but you should also follow the guidelines on placement that the speaker manufacturer provided with your particular speakers to get the most out of them. 18 En Connecting up 04 Speaker placement diagrams The following illustrations show a 6.1 channel speaker setup. 1 Extra Power mode speaker setup VSX-416 model only See Using the Advanced surround effects on page 29 to switch on the Extra Power mode (EX POWER).

Front left Center Front right English 3-D view of 6.1 channel speaker setup Deutsch Subwoofer Surround left Surround right Français Listening position Overhead view of speaker setup Italiano Front left Center Front right Subwoofer Surround left Surround right Nederlands Listening position Español Surround back speaker Note 1 VSX-416 model only Follow the speaker placement diagrams, disregarding the surround back speaker. 19 En 05 Controls and displays Chapter 5: Controls and displays Front panel Illustration shows the VSX-516 model 1 2 3 4 5 VSX-516 MULTI JOG 6 7 8 AUDIO/VIDEO MULTI-CHANNEL RECEIVER ENTER SIGNAL ACOUSTIC SB ch EQ SELECT PROCESSING STANDARD ADVANCED ST/DIRECT/ SURR AUTO SURR DVD/LD DVD 5.1 TV/SAT DVR /VCR CD CD-R / TAPE / MD FM AM TUNING STATION SIGNAL SELECT ACOUSTIC SB ch PROCESSING EQ VSX-516 model MASTER VOLUME LISTENING MODE DIMMER ANALOG ATT MIDNIGHT/ SPEAKER LOUDNESS IMPEDANCE STANDBY/ON PHONES MUTE 6 SIGNAL SELECT 9 VSB MODE 10 DIALOGUE ENHANCEMENT TUNER EDIT TONE QUICK SETUP RETURN MCACC SETUP MIC MULTI JOG DOWN UP 11 12 13 ADVANCED ST/DIRECT/ STANDARD SURR AUTO SURR VSX-416 model 16 DIMMER 17 ANALOG ATT 18 19 MIDNIGHT/ SPEAKER LOUDNESS IMPEDANCE LISTENING MODE STANDBY/ON 14 PHONES 20 MUTE 21 TUNER EDIT 22 TONE 23 QUICK SETUP SETUP 24 RETURN 15 MULTI JOG 1 Input select buttons Selects an input source. 2 Character display See Display on page 21. 3 MCACC indicator (VSX-516 model only) Lights when Acoustic Calibration EQ (page 30) is on (Acoustic Calibration EQ is automatically set to ALL CH ADJUST after the Auto MCACC Setup (page 9) or EQ Auto Setup (page 36)).



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4 ENTER 6 SIGNAL SELECT Selects an input signal (page 31). 7 SB ch PROCESSING (VSX-516 model only) Selects a surround back channel option (page 31) or (when the surround back speaker is not available) the Virtual Surround Back (VSB) mode (page 32). 8 ACOUSTIC EQ (VSX-516 model only) Press to select an Acoustic Calibration EQ setting (page 30). 9 VSB MODE (VSX-416 model only) Switches on Virtual surround back processing (page 32). 5 MULTI JOG dial The MULTI JOG dial performs a number of tasks. Use it to select options after pressing the designated MULTI JOG buttons. 20 En Controls and displays 05 10 DIALOGUE ENHANCEMENT (VSX-416 model only) Use to make dialog stand out when watching TV or a movie (page 33). 11 MCACC SETUP MIC jack (VSX-516 model only) Use to connect the supplied microphone. 12 MASTER VOLUME 13 LISTENING MODE buttons STANDARD Press for Standard decoding and to switch between the various 2Pro Logic II and (VSX516 model only) Neo:6 options (page 28).

ADVANCED SURR Switches between the various surround modes (page 29). ST/DIRECT/AUTO SURR Switches between direct and stereo playback. Direct playback bypasses the tone controls for the most accurate reproduction of a source (page 30). Also selects the Auto Surround mode (Auto playback on page 28). 16 DIMMER Dims or brightens the display. 17 ANALOG ATT Attenuates (lowers) the level of an analog input signal to prevent distortion. 18 MIDNIGHT/LOUDNESS Switches to Midnight/Loudness listening (page 33). 19 SPEAKER IMPEDANCE Use to change the speaker impedance setting (page 52). 20 MUTE 21 TUNER EDIT Memorizes/names stations for recall (page 41). 22 TONE Press this button to access the bass and treble controls, which you can then adjust with the MULTI JOG dial (page 33).

23 QUICK SETUP See Note on page 8. 24 System Setup menu controls SETUP Use with the MULTI JOG dial to access the System Setup menu (page 34). RETURN Confirms and exits the current menu. English Deutsch Français Italiano Nederlands 14 PHONES jack Use to connect headphones (when connected, there is no sound output from the speakers). 15 STANDBY/ON Español Display Illustration shows the VSX-516 model 1 2 3 4 5 6 7 8 9 10 11 12 [L] 6 [C] [R] [RS] 0 [SBR] [SB L] [Ls] 6 SP A 4 0 125 25 0 4 K1 3 K 13 14 15 16 17 18 19 20 21 22 21 En 05 Controls and displays 1 SIGNAL SELECT indicators Lights to indicate the type of input signal assigned for the current component: AUTO Lights when AUTO signal select is on.

SB (VSX-516 model only) Depending on the source, this lights when a signal with surround back channel encoding is detected. DIGITAL Lights when a digital audio signal is detected. DTS Lights when a source with DTS encoded audio signals is detected. 2 DIGITAL Lights when a Dolby Digital encoded signal is detected. ANALOG Lights when an analog signal is detected. 8 ATT Lights when ANALOG ATT is used to attenuate (reduce) the level of the analog input signal. 9 SLEEP Lights when the receiver is in sleep mode. 10 Tuner indicators / MONO Lights when the mono mode is set using the MPX button. / STEREO Lights when a stereo FM broadcast is being received in auto stereo mode. / TUNED Lights when a broadcast is being received. 11 Speaker indicator Shows if the speaker system is on or not. SP A means the speakers are switched on. SP means the headphones are connected. 12 Sound Retriever indicators (VSX-516 model only) Light when the Sound Retriever is switched on (page 33). 13 Character display 14 Neo:6 (VSX-516 model only) Lights to indicate Neo:6 processing.

15 ADV.SURR (Advanced Surround) Lights when one of the Advanced Surround modes has been selected. 16 WMA9 Pro Lights to indicate decoding of a WMA9 Pro signal. 17 MIDNIGHT Lights during Midnight listening (page 33). 18 D.E. Lights when Dialog Enhancement (DIALOG E) is switched on (page 33). 19 LOUDNESS Lights during Loudness listening (page 33). 20 EX (VSX-516 model only) Lights when a Dolby Digital Surround EX encoded signal is detected. 2 Lights to indicate decoding of a DTS multichannel signal.

3 2 DIGITAL Lights to indicate decoding of a Dolby Digital multichannel signal. 2 PRO LOGIC IIX (VSX-516 model) / 2 PRO LOGIC II (VSX-416 model) 2 PRO LOGIC II lights to indicate Pro Logic II decoding. 2 PRO LOGIC IIX lights to indicate Pro Logic IIX decoding (see Listening in surround sound on page 28 for more on this). 4 5 VIR.SB Lights during Virtual surround back processing (page 32).

6 DIRECT Lights when source direct playback is in use. Direct playback bypasses the tone controls for the most accurate reproduction of a source. 7 AUTO SURR. Lights when the Auto Surround feature is switched on (see Auto playback on page 28). 22 En Controls and displays 05 21 Master volume level 22 MCACC channel EQ indicators (VSX-516 model only) These indicators show the EQ balance for each channel in Checking your Acoustic Calibration EQ settings on page 37.

1 INPUT SELECT Use to select the input source (use SHIFT for INPUT SELECT). 2 RECEIVER This switches between standby and on for this receiver. 3 MULTI CONTROL buttons Press to select control of other components (see Controlling the rest of your system on page 44). 4 RECEIVER CONTROL buttons English Deutsch Remote control (VSX-516) 1 RECEIVER SOURCE Français 11 INPUT SELECT 2 3 DVD/LD CD-R/TAPE 12 TV/SAT DVR/VCR TV CTRL MULTI CONTROL STANDARD Press for Standard decoding and to switch between the various Pro Logic IIX and Neo:6 options (page 28). ADV.SURR Switches between the various surround modes (page 29). STEREO Switches between direct and stereo playback. Direct playback bypasses the tone controls and any other signal processing for the most accurate reproduction of a source (page 30). Also selects the Auto Surround mode (Auto playback on page 28). MIDNIGHT/LOUDNESS Switches to Midnight or Loudness listening (page 33).

EFFECT/CH SEL Press repeatedly to select a channel, then use LEVEL +/- to adjust the level (page 39). Also adjusts the level of the Advanced Surround effects as well as Dolby Pro Logic IIX Music and Neo:6 Music parameters (page 29). You can then use the LEVEL +/- buttons to make these adjustments. LEVEL +/- Use to adjust the Advanced Surround effect and channel levels, as well as to change Dolby Pro Logic IIX Music and Neo:6 Music parameter settings. DVD5.1 CD FM AM RECEIVER 13 Italiano STANDARD ADV.SURR EFFECT /CH SEL MIDNIGHT/ STEREO LOUDNESS LEVEL SLEEP 4 S.RETRIEVER DIALOG E ACOUSTIC DIMMER EQ MUTE MASTER VOLUME RECEIVER CONTROL Nederlands 5 6 ONE TOUCH COPY CH+ TUNE MENU TOP MENU DTV MENU ANALOG ATT T.EDIT ST ST ENTER GUIDE TUNE RETURN SETUP CHREC Español SUBTITLE DTV ON/OFF AUDIO 7 HDD DVD REC STOP TUNER DISP CLASS MPX D.ACCESS ENTER DISC 8 +10 9 10 INFO TV CONTROL INPUT SELECT SHIFT TV CH TV VOL 14 AUDIO/VIDEO PRE-PROGRAMMED REMOTE CONTROL UNIT RECEIVER 23 En 05 Controls and displays SLEEP Press to change the amount of time before the receiver switches into standby (30 min 60 min 90 min Off).



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You can check the remaining sleep time at any time by pressing SLEEP once. S. RETRIEVER* Press to restore CD quality sound to compressed audio sources (page 33). MUTE Mutes/unmutes the sound. DIALOG E Use to make dialog stand out when watching TV or a movie (page 33). ACOUSTIC EQ Press to select an Acoustic Calibration EQ setting (page 30). DIMMER Dims or brightens the display. MASTER VOLUME +/- Use to set the listening volume. 5 SYSTEM SETUP and Component control buttons The following button controls can be accessed after you have selected the corresponding MULTI CONTROL button (DVD/LD, TV/SAT, RECEIVER, etc.) TOP MENU Displays the disc 'top' menu of a DVD. DTV MENU Displays menus on a digital TV. ONE TOUCH COPY* Copies the currently playing title from DVD to HDD or vice-versa. GUIDE Displays the guides on a digital TV. SETUP Use to access the System Setup menu (see page 34). MENU Displays the disc menu of DVD-Video discs. ANALOG ATT Attenuates (lowers) the level of an analog input signal to prevent distortion. T.EDIT Press to memorize and name a station for recall (page 41). RETURN Press to confirm and exit the current menu (also use to return to the previous menu with DVDs or to select closed captioning with DTV). 6 (TUNE/ST +/-) /ENTER Use the arrow buttons when setting up your surround sound system (see page 34).

Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use the TUNE +/- buttons to find radio frequencies and use ST +/- to find preset stations (page 41). Use the (SHIFT+) CH +/- buttons to select channels. 7 Component control buttons The main buttons (, , etc.) are used to control a component after you have selected it using the MULTI CONTROL buttons. The controls above these buttons can be accessed after you have selected the corresponding MULTI CONTROL button (for example DVD/LD, DVR/VCR or TV/SAT (when connected to a DTV)). DTV ON/OFF Switches a digital TV on/off. SUBTITLE* Displays/changes the subtitles included in multilingual DVD-Video discs. iREC* Start recording. AUDIO* Changes the audio language or channel on DVD discs.

24 En Controls and displays 05 HDD/DVD* These buttons switch between the hard disk and DVD controls for DVD/HDD recorders. REC STOP* Stops recording. 8 Number buttons and other component controls Use the number buttons to directly select a radio frequency (page 41) or the tracks on a CD, DVD, etc. DISC (ENTER) can be used to enter commands for TV or DTV, and can also be used to select a disc in a multi-CD player. TUNER DISP* Switches between named station presets and radio frequencies (page 42).

CLASS* Switches between the three banks (classes) of radio station presets (page 41). MPX* Switches between stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality (page 41). D. ACCESS* After pressing, you can access a radio station directly using the number buttons (page 41).

9 INFO Use to bring up information screens on a digital TV. 10 SHIFT Press to access the 'boxed' commands (above the buttons) on the remote. These buttons are marked with an asterisk (*) in this section. 11 Remote control LED Lights when a command is sent from the remote control. 12 SOURCE Press to turn on/off other components connected to the receiver (see page 44 for more on this). 13 RECEIVER Switches the remote to control the receiver (used to select the green commands above the number buttons (SETUP, etc). Also use this button to set up surround sound (page 8, page 34). 14 TV CONTROL buttons These buttons are dedicated to control the TV assigned to the TV CTRL button. Thus if you only have one TV to hook up to this system assign it to the TV CTRL MULT CONTROL button. If you have two TVs, assign the main TV to the TV CTRL button (see page 44 for more on this).

Use to turn on/off the power of the TV. INPUT SELECT Use to select the TV input signal. TV CH +/- Use to select channels. TV VOL +/- Use to adjust the volume on your TV. English Deutsch Français Italiano Nederlands Español 25 En 05 Controls and displays Remote control (VSX-416) 3 RECEIVER SLEEP DIMMER ANALOG ATT MIDNIGHT/LOUDNESS Switches to Midnight or Loudness listening (page 33). TOP MENU Displays the disc 'top' menu of a DVD. SETUP Press to access the System Setup menu (page 34). 1 DVD 5.1 7 8 INPUT SELECTOR DVD CD TV CD-R DVR FM RECEIVER AM 2 3 MIDNIGHT/STANDARD ADV.SURR STEREO LOUDNESS 4 9 10 11 TOP MENU MENU SETUP DIALOG E TUNER EDIT* Memorizes/names stations for recall (page 41).

Also functions as the SETUP button for DVD/DVR units. S. RETRIEVER Press to restore CD quality sound to compressed audio sources (page 33). ENTER TUNER EDIT ONE TOUCH COPY 4 S.RETRIEVER RETURN VOLUME 5 EFFECT/CH SEL LEVEL MUTE 5 RECEIVER CONTROL buttons VOLUME +/- Use to set the listening volume.

EFFECT/CH SEL Press repeatedly to select a channel, then use LEVEL +/- to adjust the level (page 39). Also adjusts the level of the Advanced Surround effects as well as Dolby Pro Logic II Music parameters (Page 28). You can then use the LEVEL +/- buttons to make these adjustments. LEVEL +/- Use to adjust the effect and channel levels. MUTE Mutes/unmutes the sound.

DVD/DVR HDD DVD SUBTITLE CH GUIDE REC CH AUDIO 12 TIMER REC INFO REC STOP JUKEBOX DISPLAY CLASS DVD/DVR TUNING STATION 6 SHIFT MPX 13 TUNER RECEIVER 1 RECEIVER Switches the receiver between standby and on. 2 Listening mode buttons STANDARD Press for Standard decoding and to switch between 2Pro Logic II. ADV.SURR Switches between the various surround modes (page 29). STEREO Switches between direct and stereo playback (page 30). Also selects the Auto Surround mode(Auto playback on page 28). 6 SHIFT Press to access the 'boxed' commands (above the buttons) on the remote. These buttons are marked with an asterisk (*) in this section. 7 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.

26 En Controls and displays 05 DIMMER Dims or brightens the display. ANALOG ATT Attenuates (lowers) the level of an analog input signal to prevent distortion. Button What it does Starts/resumes normal playback. Pauses/unpauses a disc. Stops playback. / English 8 INPUT SELECTOR buttons Press to select an input source. DVD/DVR Press to use the remote DVD/DVR controls. RECEIVER Use to switch to the receiver controls on the remote control. Use when setting up surround sound for the receiver (page 34). Press to start fast reverse/forward scanning.

Skips to the start of the current track or chapter, then previous tracks/chapters. Skips to the next track or chapter. Deutsch HDD/ DVD* Switch between the hard disk and DVD controls for DVD/HDD recorders.



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Français GUIDE* Displays the guides on a digital TV. iREC* TIMER REC* INFO* REC STOP* JUKE BOX* TUNER Press to access the Setup menu. EDIT* Switches to the Jukebox feature. Displays additional EPG information. Stops recording. Starts recording. Accesses the timer recording menu. 9 MENU Displays the disc menu of DVD-Video discs. DIALOG E Use to make dialog stand out when watching TV or a movie (page 33). Italiano 10 /ENTER Use the arrow buttons when setting up your surround sound system (page 34). Also used for DVD menus. 11 RETURN Confirm and exit the current menu screen. ONE TOUCH COPY* Copies the currently playing title from DVD to HDD or vice-versa. Nederlands Español 12 DVD/DVR control buttons Use these buttons to control a Pioneer DVD player or recorder connected to your system (press DVD or DVR to access the below controls). Button What it does DVD/ DVR 13 TUNER controls The TUNING +/- buttons can be used to find radio frequencies (page 41) and the STATION +/- buttons can be used to select preset radio stations (page 42). DISPLAY Switch the display between station preset name and frequency (see Tip on page 42). CLASS Switches between the three banks (classes) of station presets (page 41).

MPX Use to switch between auto stereo and mono reception of FM broadcasts. If the signal is weak then switching to mono will improve the sound quality (page 41). Turns DVD power on/off. Switches channels. CH +/- SUBTITLE Displays/changes the subtitles on multilingual DVD-Video discs. AUDIO Changes audio language or channel. 27 En 06 Listening to your system Chapter 6: Listening to your system Important · Certain features explained in this section will not be possible depending on the source (for example, PCM 88.2 kHz / 96 kHz, DTS 96 kHz (24 bit) or WMA 9 Pro sources). Listening in surround sound Using this receiver, you can listen to any source in surround sound. @@@@ Press repeatedly until AUTOSURR.

@@@@@ · ADV. MOVIE Suitable for movie sources · ADV. MUSIC Suitable for music sources · TV SURR. @@ GAME Suitable for video games · EXPANDED Simulates multichannel surround sound for two-channel sources 3 · 6-STEREO (VSX-516 model only) Gives multichannel sound to a stereo source, using all of your speakers · VIR. SURR A virtual surround effect using just the subwoofer and front speakers · EX POWER (VSX-416 model only) Select when using the surround speakers in addition to the front speakers (see the diagram on page 19 for the Extra Power mode speaker setup) · PHONESUR.

Creates the effect of overall surround with headphones English Deutsch Français Italiano Nederlands Setting the effect options When using surround effects, there are a number of settings you can adjust. 1 Press EFFECT/CH SEL repeatedly to select the setting you want to adjust. @@ Check the table below for notes on this. 2 Use the LEVEL +/- buttons to set it as necessary. See the table below for the options available for each setting.

@@@@@ · F. @@@@ Each press cycles through the following: · AUTO This automatically switches to DIGITAL if a digital source is detected, otherwise it remains on ANALOG · ANALOG Selects the analog inputs · DIGITAL Selects the digital input When set to DIGITAL or AUTO, 2 DIGITAL lights when a Dolby Digital signal is input, and DTS lights when a DTS signal is input. · Press SB ch PROCESSING to select a surround back channel option. Each press cycles through the following: · SB ON 6.1 decoding is always used (for example, a surround back channel will be generated for 5.1 encoded material) · SB AUTO Automatically switches to 6.1 decoding for 6.1 encoded sources (for example, Dolby Digital EX or DTS-ES) · SB OFF Maximum 5.1 playback Nederlands Español Note 1 · You can't use Acoustic Calibration EQ with DVD 5.1ch or WMA9 Pro, and it has no effect when headphones are connected.

· If you switch on Acoustic Calibration EQ when DIRECT is selected, the receiver automatically switches to STEREO. 2 · This receiver can only playback Dolby Digital, PCM (32 kHz to 96 kHz), DTS and WMA9 Pro digital signal formats. With other digital signal formats, set to ANALOG. · 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 12) and set the signal input to DIGITAL. · Some DVD players don't output DTS signals. For more details, refer to the instruction manual supplied with your DVD player. 3 · You can't use the surround back channel with headphones, the STEREO / DIRECT mode, or if the surround back speaker is set to NO in Speaker setting on page 38. 31 En 06 Listening to your system Using Virtual Surround Back (VSB) When you're not using surround back speaker, selecting this mode allows you to hear a virtual surround back channel through your surround speakers. You can choose to listen to sources with no surround back channel information, or if the material sounds better in the format (for example, 5.

1) for which it was originally encoded, you can have the receiver only apply this effect to 6.1 encoded sources like Dolby Digital EX or DTS-ES.1 VSX-516 model only The table indicates when you will hear the virtual surround back channel (i=Sound plays through surround speaker). SBch Processing / Virtual SB mode ON AUTO ON AUTO ON AUTO ON AUTO · Press SB ch PROCESSING / VSB MODE to select a virtual surround back channel option. Each press cycles through the following: · VSB ON Virtual Surround Back is always used (for example, on 5.

1 encoded material) · VSB AUTO (VSX-516 model only) Virtual Surround Back is automatically applied to 6.1 encoded sources (for example, Dolby Digital EX or DTS-ES) · VSB OFF Virtual Surround Back mode is switched off Standard Multichannel sources i i i Stereo sources 2 Pro Logic II x 2 Pro Logic Neo:6 ia ia ia ia i ic i ic ib ia,b i i i ia ia i i Advanced surround Type of source Dolby Digital EX/DTS-ES/ WMA9 Pro encoded multichannel sources with 6.1ch surround Dolby Digital/DTS/WMA9 Pro encoded multichannel sources Dolby Digital/DTS/WMA9 Pro encoded stereo source; other digital stereo source Analog 2-channel (stereo) sources a Excluding WMA9 Pro format b Only applicable when using the Virtual Surround Back mode. c Not applicable when using the Virtual Surround Back mode. Note 1 · You can't use virtual surround back with headphones, the STEREO / DIRECT mode, or if the surround speaker is set to NO in Speaker setting on page 38 (VSX-516 model only however, the surround back speaker must be set to NO).



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