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Pioneer VSX-S510

Pioneer VSX-S510 AV Amplifier Instruction Manual

1. INTRODUCTION

Thank you for purchasing the Pioneer VSX-S510 AV Amplifier. This slim 6.2-channel AV amplifier is designed to deliver an immersive home theater experience with advanced features such as AirPlay, MHL, 4K passthrough, and Hi-Res audio compatibility. It features a high-efficiency Class D amplifier, multiple HDMI inputs, and network connectivity for a wide range of entertainment options.



Figure 1: Pioneer VSX-S510 AV Amplifier (Front View)

This manual provides essential information for setting up, operating, and maintaining your VSX-S510 AV amplifier. Please read it thoroughly before use to ensure proper and safe operation.

2. SAFETY INFORMATION

Always follow these basic safety precautions when using this product to reduce the risk of fire, electric shock, and injury:

- Do not expose this appliance to rain or moisture.
- Do not remove the cover or back. Refer servicing to qualified personnel only.
- Do not block ventilation openings. Ensure adequate space around the unit for proper airflow.
- Do not place the unit near heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- Use only attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Ensure the power cord is not walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

3. PACKAGE CONTENTS

Please check that your package contains the following items:

- Pioneer VSX-S510 AV Amplifier
- Remote Control Unit
- Power Cord
- FM Antenna
- AM Loop Antenna
- Setup Microphone (for MCACC)
- Quick Start Guide
- Operating Instructions (CD-ROM or printed)

4. SETUP

4.1 Initial Placement

Place the AV amplifier on a stable, flat surface with adequate ventilation. Avoid placing it in direct sunlight or near heat sources. Ensure there is enough space around the unit for proper airflow.

4.2 Connecting Your System

Refer to the rear panel diagram below for all connection points. Ensure all connections are secure before powering on the unit.



Figure 2: Pioneer VSX-S510 AV Amplifier (Rear Panel)

4.2.1 HDMI Connections

- **HDMI OUT:** Connect this to your TV or projector's HDMI input. This output supports 4K passthrough.
- **HDMI IN (BD IN, SAT/CBL IN, GAME IN, DVR/BDR IN, DVD IN):** Connect your source devices (Blu-ray player, cable box, gaming console, etc.) to these inputs. The VSX-S510 features 6 HDMI inputs.

4.2.2 Speaker Connections

Connect your speakers to the corresponding terminals on the rear panel. The VSX-S510 supports a 6.2 channel setup. Ensure correct polarity (+ to + and - to -) for optimal sound quality. The amplifier supports speakers with an impedance of 4-16 ohms.

- **FRONT (L/R):** Connect your main left and right front speakers.
- **CENTER:** Connect your center channel speaker.
- **SURROUND (L/R):** Connect your left and right surround speakers.
- **SUBWOOFER/SURR BACK (L/R):** Connect your subwoofer(s) to the PRE OUT (SUBWOOFER) jacks. These terminals can also be configured for surround back speakers if you are not using a subwoofer or prefer a 7.1 setup with an external amplifier for the main front speakers.

4.2.3 Antenna Connections

- **FM UNBAL 75Ω:** Connect the supplied FM antenna or an external FM antenna.
- **AM LOOP:** Connect the supplied AM loop antenna.

4.2.4 Network Connection

- **LAN (10/100):** Connect an Ethernet cable from your router or network switch to this port for internet radio, DLNA, and firmware updates.

4.2.5 Digital Audio Connections

- **OPTICAL IN (TV):** Connect an optical digital audio cable from your TV or other optical output device.
- **COAXIAL IN (CD):** Connect a coaxial digital audio cable from your CD player or other coaxial output device.

4.2.6 Analog Audio Connections

- **ANALOG IN (CD):** Connect analog audio devices using RCA cables.

4.2.7 Power Connection

- **AC IN:** Connect the supplied power cord to this inlet and then to a wall outlet.

4.3 Initial Setup and Calibration

After connecting all your devices and speakers, perform the initial setup using the on-screen display (OSD) or graphical user interface (GUI) via your TV. The VSX-S510 features Auto MCACC (Multi-Channel Acoustic Calibration System) for automatic speaker setup and room equalization. Use the supplied setup microphone for this process.

1. Connect the setup microphone to the front panel jack.
2. Place the microphone at your primary listening position.
3. Follow the on-screen instructions to start the MCACC calibration. The system will emit test tones to measure speaker size, level, distance, and equalization.
4. Save the calibration settings once complete.

5. OPERATING

5.1 Basic Operation

- **Power On/Off:** Press the POWER button on the front panel or remote control.
- **Input Selection:** Use the INPUT SELECTOR buttons on the front panel or remote to choose your desired source (e.g., BD, DVD, GAME).
- **Volume Control:** Adjust the master volume using the VOLUME knob on the front panel or the VOLUME +/- buttons on the remote.

5.2 Advanced Features

- **AirPlay:** Stream music wirelessly from your Apple devices (iPod, iPhone, iPad) or iTunes on your computer.

- **Ensure the amplifier is connected to the same network as your Apple device.**
- **MHL (Mobile High-Definition Link):** Connect compatible Android smartphones or tablets to an MHL-enabled HDMI input for high-definition video and audio playback, including 3D content.
- **4K Passthrough:** The amplifier supports passthrough of 4K resolution video signals from source devices to a 4K compatible display.
- **Internet Radio (vTuner):** Access thousands of internet radio stations worldwide via the network connection.
- **DLNA 1.5/Windows 8 Certified:** Stream music files from compatible network devices (e.g., PC, NAS) on your home network.
- **Hi-Res Audio Playback:** Supports playback of high-resolution audio formats such as AIFF/Apple Lossless (up to 96kHz/24bit) and FLAC/WAV (up to 192kHz/24bit), including gapless playback.
- **Bluetooth:** With an optional Bluetooth adapter, you can wirelessly stream audio from Bluetooth-enabled devices.
- **Pioneer Control App:** Download the Pioneer Control app for iOS and Android devices to control the amplifier and access features like PUSH PLAYER for playing music content stored on your mobile device.
- **ECO Mode:** Activate ECO mode to reduce power consumption during operation.

6. MAINTENANCE

To ensure the longevity and optimal performance of your VSX-S510 AV Amplifier, follow these maintenance guidelines:

- **Cleaning:** Wipe the unit with a soft, dry cloth. For stubborn stains, use a cloth lightly dampened with water or a mild, non-abrasive cleaner. Do not use harsh chemicals or solvents.
- **Ventilation:** Regularly check that the ventilation openings are not blocked by dust or debris. Use a soft brush or vacuum cleaner to clear any obstructions.
- **Power Cord:** Periodically inspect the power cord for any damage. If damaged, discontinue use and contact customer support.
- **Storage:** If storing the unit for an extended period, disconnect it from the power outlet and store it in a cool, dry place away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you experience issues with your VSX-S510, refer to the table below for common problems and their solutions.

Problem	Possible Cause	Solution
No power	Power cord not connected; Power outlet not active	Ensure power cord is securely plugged in; Test outlet with another device
No sound	Incorrect input selected; Speaker cables loose; Volume too low; Mute activated	Select correct input; Check speaker connections; Increase volume; Deactivate mute
No video	HDMI cable loose or faulty; Incorrect input selected on TV/projector	Check HDMI connections; Select correct input on display device
Network features not working	LAN cable disconnected; Router/network issue; Incorrect network settings	Check LAN cable connection; Restart router; Verify network settings in amplifier menu

Problem	Possible Cause	Solution
Remote control not working	Batteries depleted; Obstruction between remote and unit	Replace batteries; Remove obstructions; Ensure remote is pointed at the unit's sensor

If the problem persists after trying these solutions, please contact customer support.

8. SPECIFICATIONS

Key specifications for the Pioneer VSX-S510 AV Amplifier:

Feature	Detail
Model Number	VSX-S510
Brand	Pioneer
Connectivity Technology	Bluetooth (optional), HDMI, USB
Connector Type	HDMI
Total HDMI Ports	7 (6 In / 1 Out)
Audio Output Mode	Surround Sound
Surround Sound Channel Configuration	6.2
Wattage	96 W (Rated), 110 W/ch (1 kHz, 1%, 4 Ω, 1 ch driven)
Item Weight	11.61 pounds (approx. 5.27 kg)
Compatible Devices	Smartphone
Special Features	AM Tuner, FM Tuner, Bluetooth (optional)

9. WARRANTY INFORMATION

Pioneer warrants this product against defects in materials and workmanship under normal use for a period specified by your regional distributor. This warranty is extended only to the original purchaser and is not transferable. Please retain your original purchase receipt as proof of purchase. For specific warranty terms and conditions, refer to the warranty card included with your product or contact your local Pioneer authorized dealer.

10. CUSTOMER SUPPORT

For technical assistance, product inquiries, or service requests, please contact Pioneer customer support. You can typically find contact information on the official Pioneer website for your region. Have your product model number (VSX-S510) and serial number ready when contacting support.

- Online Support:** Visit the official Pioneer website for FAQs, software updates, and support resources.
- Telephone Support:** Refer to your product documentation or the Pioneer website for regional contact numbers.

