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› Peavey PVi 6500 All In One Powered Mixer User Manual

Peavey 3601840

Peavey PVi 6500 All In One Powered Mixer

Model: 3601840

Brand: Peavey

INTRODUCTION

The Peavey PVi 6500 is a versatile all-in-one powered mixer designed for musicians, offering up to 6 simultaneous combination XLR and 1/4" inputs. It features Peavey's Silencer mic preamps and delivers 400 watts of power for clear audio reproduction. Key features include Mid Morph EQ for vocal clarity, the FLS Feedback Locating System for feedback suppression, and Kosmos technology to enhance audio spectrum. The unit also includes 24-bit digital effects such as reverb and delay, and offers various connectivity options including 1/4", RCA, and 1/8" mini jacks.

SETUP

Unboxing and Initial Inspection

Carefully remove the Peavey PVi 6500 from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. Ensure all components are present.

Power Connection

Connect the provided power cord to the AC inlet on the rear panel of the mixer. Ensure the power switch is in the OFF position before connecting to a power outlet. The unit supports 115V and 230V operation; verify the voltage selector switch is set correctly for your region. For 115V operation, the fuse should be 4A. For 230V operation, the fuse should be 2A.



Figure 1: Rear panel of the Peavey PVi 6500, illustrating power input, fuse location, and speaker output connections.

Input Connections

The PVi 6500 features 6 combination XLR and 1/4" input jacks. Connect microphones, instruments, or line-level devices to these inputs. Additionally, 1/4", RCA, and 1/8" mini jacks are available for various audio sources.

- **Microphones:** Use XLR cables for microphones.
- **Instruments/Line-level:** Use 1/4" cables for instruments or line-level devices.
- **Media Inputs:** Use RCA or 1/8" mini jacks for connecting external media players.

Speaker Connections

Connect passive speakers to the "Speaker Outputs" on the rear panel. The unit provides two main outputs (AMP 1 and AMP 2) for main speakers or monitors. Ensure a minimum load of 4 ohms (Class 2 wiring) for optimal performance and to prevent damage.

OPERATING INSTRUCTIONS

Front Panel Overview



Figure 2: Front panel of the Peavey PVi 6500, displaying input channels, EQ controls, effects section, and master controls.

The front panel provides access to all mixing and effects controls. Each channel features gain, EQ, EFX send, and level controls. The master section includes main EQ, effects parameters, and master volume.

Channel Controls

- **Gain:** Adjusts the input sensitivity for each channel. Set to an appropriate level to avoid clipping (indicated by the CLIP LED).
- **EQ (High, Mid, Low):** Provides tone shaping for each channel. The Mid control includes Peavey's Mid Morph EQ, which helps improve vocal tone and clarity.
- **EFX:** Controls the amount of effect sent from each channel to the master effects processor.
- **Level:** Adjusts the output level of each channel to the main mix.

Master Section

- **Main EQ:** A 9-band graphic equalizer for overall tone adjustment of the main mix.
- **FLS Feedback Locating System:** This system works in conjunction with the main EQ. When feedback occurs, the FLS illuminates the corresponding EQ slider, allowing you to quickly identify and reduce the problematic frequency.
- **Effects:** The built-in 24-bit digital effects offer multiple varieties of reverb and delay. Use the PARAMETER and CLIP controls to adjust and monitor the effects.
- **Kosmos:** This exclusive Peavey technology enhances both the low and high ends of the audio spectrum, providing a fuller sound.
- **Master Mute:** A dedicated button allows for master muting of channels 1-5. This can also be controlled via a footswitch.
- **Footswitch Control:** A footswitch input is available for remote control of effects defeat and master mute.
- **Master Level:** Controls the overall output volume of the mixer.

MAINTENANCE

Cleaning

To clean the exterior of the mixer, use a soft, dry cloth. For stubborn dirt, a slightly damp cloth with mild soap can be used, followed by a dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish and internal components. Ensure the unit is powered off and unplugged before cleaning.

Storage

Store the mixer in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity. If storing for an extended period, it is recommended to cover the unit to protect it from dust accumulation.

Safety Warnings

This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Always operate the unit in a well-ventilated area. Do not expose the unit to rain or moisture. Refer to the rear panel for electrical safety warnings and fuse requirements. Do not attempt to service the unit yourself; refer all servicing to qualified service personnel.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to the unit.	Power cord not securely connected, power outlet malfunction, blown fuse.	Ensure power cord is fully inserted. Test the power outlet with another device. Check and replace the fuse if blown (refer to rear panel for correct fuse rating).
No sound output.	Master volume too low, channel levels too low, speakers not connected, Master Mute engaged, incorrect input selection.	Increase Master Level and individual channel levels. Verify speaker connections. Disengage Master Mute. Ensure audio source is connected to the correct input.
Feedback (howling/squealing).	Microphone too close to speakers, high gain settings, resonant frequencies.	Utilize the FLS Feedback Locating System to identify and reduce problematic frequencies on the main EQ. Reposition microphones further from speakers. Reduce gain on affected channels.
Distorted or unclear sound.	Input gain too high (clipping), incorrect EQ settings, damaged cables.	Reduce input gain on channels where the CLIP LED illuminates. Adjust EQ settings, particularly the Mid Morph EQ for vocals. Check and replace any damaged audio cables.

SPECIFICATIONS

- Model:** 3601840
- Output Wattage:** 400 Watts
- Number of Channels:** 5 (with 6 combination inputs)
- Connectivity Technology:** XLR, TRS (1/4"), RCA, 1/8" mini jack
- Power Source:** Corded Electric
- Speaker Amplification Type:** Active
- Hardware Interface:** USB (Note: While listed in specs, primary connectivity is analog inputs)
- Item Weight:** 23.6 pounds
- Product Dimensions:** 19.8 x 14 x 13 inches (50.3 x 35.6 x 33 cm)

WARRANTY AND SUPPORT

For detailed warranty information regarding your Peavey PVi 6500 All In One Powered Mixer, please refer to the warranty card included with your product or visit the official Peavey website. Warranty terms and conditions may vary by region and purchase date.

For technical support, service inquiries, or additional product information, please visit the [Peavey Official Store](#) or their main corporate website. Contact information for customer service is typically available on the manufacturer's website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question