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Peavey IPR27500

Peavey IPR2 7500 Lightweight Power Amplifier User Manual

Model: IPR27500

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Peavey IPR2 7500 Lightweight Power Amplifier. Please read this manual thoroughly before operating the unit to ensure optimal performance and safety.

The Peavey IPR2 7500 is a high-performance, two-channel power amplifier designed for professional audio applications, offering substantial power output in a lightweight chassis.

2. SAFETY INFORMATION

Important Safety Instructions:

- **Power Source:** Connect the amplifier only to a power supply of the type specified in this manual and on the unit. Ensure the power outlet provides a dedicated 20-amp circuit for high-output operation to prevent performance issues or circuit overload.
- **Grounding:** Always ensure the amplifier is properly grounded to prevent electrical shock.
- **Ventilation:** Do not block any ventilation openings. Ensure adequate airflow around the unit to prevent overheating. Maintain at least 6 inches (15 cm) of clear space around all ventilation ports.
- **Moisture:** Do not expose this apparatus to rain or moisture. Do not place objects filled with liquids on the apparatus.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.
- **Cables:** Use only high-quality, shielded cables for all audio connections to minimize noise and interference.

3. FEATURES

The Peavey IPR2 7500 amplifier incorporates advanced technology to deliver reliable and powerful audio performance. Key features include:

- **High Power Output:** Delivers 4750 watts per channel into 2 ohms, 2800 watts per channel into 4 ohms, and 1550 watts per channel into 8 ohms.
- **RMS Power:** 3750W RMS x 2 at 2 ohms, 2022W RMS x 2 at 4 ohms.
- **Lightweight Design:** Engineered for portability and ease of installation.
- **Two Channels:** Independent control for two separate audio channels.
- **Advanced Protection Circuitry:** Includes DDT (Distortion Detection Technique) limiting, DC protection, and thermal protection.

4. SETUP

This section details the steps for setting up your Peavey IPR2 7500 amplifier.

4.1 Unpacking

Carefully remove the amplifier from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. Retain the original packaging for future transport or storage.

4.2 Rack Mounting

The IPR2 7500 is designed for standard 19-inch equipment rack mounting. Secure the amplifier using appropriate rack screws through the front panel mounting ears. Ensure sufficient space for ventilation, especially at the front and rear.

4.3 Connections

Input Connections: Connect your audio source (mixer, preamplifier) to the amplifier's input jacks on the rear panel. Typically, these are XLR or TRS connectors. Use balanced cables for optimal signal integrity.

Output Connections: Connect your loudspeakers to the amplifier's output terminals. The IPR2 7500 typically uses Speakon or binding post connectors. Ensure correct polarity and impedance matching between the amplifier and your speakers. This amplifier supports loads down to 2 ohms per channel.

4.4 Power Connection

Connect the amplifier's power cord to a suitable AC power outlet. As noted in the safety section, a dedicated 20-amp circuit is recommended for full power utilization.

5. OPERATION

This section describes the operational controls and indicators on the front panel of the Peavey IPR2 7500.



Figure 1: Front panel of the Peavey IPR2 7500 Lightweight Power Amplifier, showing the power button, Peavey logo, ventilation grille with blue internal lighting, and two channel control sections with gain knobs and LED indicators.

5.1 Power On/Off

Press the illuminated 'Power' button on the front panel to turn the amplifier on or off. The button will light up when the unit is powered on.

5.2 Channel Gain Controls

Two large rotary knobs, labeled 'A' and 'B', control the input gain for each channel. Rotate clockwise to increase gain and counter-clockwise to decrease it. These controls range from -80dB to 0dB. Adjust these carefully to achieve the desired output level without clipping.

5.3 Front Panel Indicators

Each channel features a series of LED indicators:

- **DC:** Illuminates if DC voltage is detected at the output, indicating a fault condition. The amplifier will mute the output to protect connected speakers.
- **Temp:** Illuminates if the amplifier's internal temperature exceeds safe operating limits. The amplifier may reduce output or shut down to prevent damage.
- **DDT™:** (Distortion Detection Technique) Illuminates when the amplifier is approaching or reaching clipping. This proprietary Peavey circuit dynamically limits the signal to prevent audible distortion and protect speakers.
- **Signal:** Illuminates when an audio signal is present at the input of the respective channel.
- **Active:** Illuminates when the channel is operational and ready to pass audio.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and reliable operation of your amplifier.

- **Cleaning:** Periodically clean the exterior of the amplifier with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure ventilation grilles are free from dust and debris.
- **Ventilation:** Regularly check that all ventilation openings are clear and unobstructed. Dust accumulation can impede airflow and lead to overheating.
- **Cable Inspection:** Inspect all audio and power cables for wear or damage. Replace any faulty cables immediately.

7. TROUBLESHOOTING

If you encounter issues with your Peavey IPR2 7500, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No power / Unit does not turn on	Power cord disconnected; Faulty power outlet; Internal fuse blown.	Check power cord connection; Test outlet with another device; Contact qualified service personnel for fuse replacement.
No sound output	Input/output cables disconnected or faulty; Gain controls set too low; Speakers not connected or faulty; Amplifier in protection mode (DC, Temp, DDT LEDs illuminated).	Verify all cable connections; Increase gain controls; Check speaker connections and functionality; Address protection mode cause (e.g., reduce load, ensure ventilation).
Overheating (Temp LED on)	Insufficient ventilation; Excessive load impedance; Prolonged high-output operation.	Ensure clear ventilation paths; Reduce load impedance if possible; Allow amplifier to cool down; Reduce output level.

Problem	Possible Cause	Solution
Distortion (DDT LED on)	Input signal too high; Amplifier driven into clipping.	Reduce input signal level from source; Decrease amplifier gain.
Fan noise is excessive or fan not working	Dust accumulation in fan; Fan malfunction.	Clean fan and ventilation areas; If fan malfunction persists, contact qualified service personnel.

If the problem persists after attempting these solutions, contact Peavey customer support or a qualified service technician.

8. SPECIFICATIONS

Detailed technical specifications for the Peavey IPR2 7500 Lightweight Power Amplifier:

Feature	Specification
Model Number	IPR27500
Output Power (2 Ohms)	4750 watts x 2 channels
Output Power (4 Ohms)	2800 watts x 2 channels
Output Power (8 Ohms)	1550 watts x 2 channels
RMS Power (2 Ohms)	3750W RMS x 2
RMS Power (4 Ohms)	2022W RMS x 2
Number of Channels	2
Dimensions (L x W x H)	13 x 21 x 21 inches
Item Weight	8.5 pounds
Mounting Type	Rack-mountable
Power Source	Corded Electric
UPC	014367153439

9. WARRANTY AND SUPPORT

Peavey Electronics Corporation provides a limited warranty for its products. Please refer to the official Peavey website or your purchase documentation for specific warranty terms and conditions.

For technical support, service, or parts, please contact Peavey customer service through their official channels. Always provide your product model number (IPR27500) and serial number when seeking support.

Related Documents - IPR27500

	<p><u>Peavey Backstage Chorus 208 Guitar Amplifier User Manual</u></p> <p>User manual and specifications for the Peavey Backstage Chorus 208 single unit guitar amplifier, detailing controls, features, and safety instructions.</p>
	<p><u>Peavey Bandit 112 Guitar Amplifier Operating Guide</u></p> <p>Comprehensive operating guide for the Peavey Bandit 112 guitar amplifier, covering front panel controls, rear panel connections, specifications, tone settings, and safety information.</p>
	<p><u>Peavey Vypyr X Series Guitar Amplifier Operating Manual</u></p> <p>Comprehensive operating manual for the Peavey Vypyr X Series amplifiers (X1, X2, X3), detailing features, controls, effects, amp models, connectivity, and specifications.</p>
	<p><u>Peavey Bandit 112 TransTube Series Guitar Amplifier User Manual</u></p> <p>Comprehensive user manual for the Peavey Bandit 112 TransTube Series guitar amplifier, detailing front and back panel features, specifications, tone settings, and safety instructions. Features Peavey's TransTube technology for authentic tube tone.</p>
	<p><u>Peavey PV 2.6 C Professional Stereo Power Amplifier Operating Guide</u></p> <p>Comprehensive operating guide for the Peavey PV 2.6 C Professional Stereo Power Amplifier, detailing front and back panel features, technical specifications, wiring diagrams, safety precautions, and warranty information. Includes multilingual safety warnings.</p>



[Peavey Musician 400 Series Amplifier Owner's Manual and Technical Specifications](#)

Detailed owner's manual and technical specifications for the Peavey Musician 400 Series amplifier, covering its features, controls, operation, and performance characteristics.