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## Peavey CS4000

# Peavey CS4000 Professional Power Amplifier

Model: CS4000

Brand: Peavey

## 1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation of your Peavey CS4000 Professional Power Amplifier. The Peavey CS4000 is a robust and reliable power amplifier designed for demanding audio applications, delivering high power output for professional sound reinforcement systems. Please read this manual thoroughly before operating the unit to ensure proper setup, optimal performance, and longevity of your amplifier.

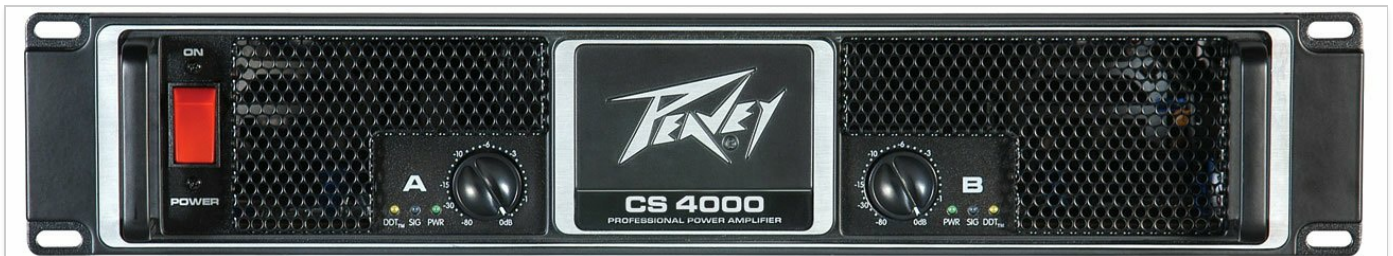


Figure 1: Front panel of the Peavey CS4000 Power Amplifier. This image displays the amplifier's front face, featuring the main power switch on the left, input level controls for channels A and B, and various status indicator LEDs for each channel, including DDT (Distortion Detection Technique), Signal, and Power.

## 2. SAFETY INFORMATION

Adherence to the following safety guidelines is crucial for preventing electric shock, fire, or damage to the amplifier and connected equipment.

- **Power Source:** Connect the amplifier only to a power supply of the type specified on the unit. Ensure the power cord is not damaged or pinched.
- **Ventilation:** Do not block any ventilation openings. Ensure adequate airflow around the amplifier to prevent overheating. Maintain at least 10 cm (4 inches) of clear space around the unit.
- **Moisture:** Do not expose the amplifier to rain or moisture. Do not place objects filled with liquids, such as vases, on the amplifier.
- **Grounding:** The amplifier must be properly grounded. Do not defeat the safety purpose of the polarized or grounding-type plug.

- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Placement:** Place the amplifier on a stable, level surface or mount it securely in a standard equipment rack. Avoid placing it near heat sources.

### 3. FEATURES

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The Peavey CS4000 Professional Power Amplifier is engineered for high-performance audio delivery, featuring:

- Dual-channel design, providing independent amplification for two separate audio signals.
- High power output, capable of delivering 1350 watts per channel into 4 ohms.
- Front panel level controls for precise gain adjustment of each channel.
- Comprehensive LED indicators for monitoring operational status:
  - **DDT™ (Distortion Detection Technique):** Indicates when the amplifier is approaching or entering clipping, protecting speakers from damage.
  - **SIG (Signal):** Illuminates when an audio signal is present at the input.
  - **PWR (Power):** Indicates that the amplifier is powered on.
- Robust construction suitable for rack mounting in professional audio setups.

### 4. SETUP

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Follow these steps to properly set up your Peavey CS4000 amplifier:

1. **Unpacking:** Carefully remove the amplifier from its packaging. Retain the original packaging for future transport or storage.
2. **Placement:** The CS4000 is designed for standard 19-inch rack mounting. Ensure adequate ventilation space (at least 1U above and below if possible) and that the rack is stable and capable of supporting the amplifier's weight (approximately 22.68 kg). If not rack-mounted, place it on a flat, stable surface away from direct sunlight or heat sources.
3. **Input Connections:** Connect your audio source (e.g., mixer, preamplifier) to the amplifier's input connectors on the rear panel. Use high-quality balanced XLR or TRS cables for optimal signal integrity.
4. **Speaker Connections:** Connect your loudspeakers to the amplifier's output terminals. Ensure correct polarity (+ to + and - to -) and that the speaker impedance matches the amplifier's specifications (typically 4 ohms or 8 ohms per channel). Use heavy-gauge speaker cables to minimize power loss.
5. **Power Connection:** With the amplifier's power switch in the "OFF" position, connect the supplied AC power cord to the amplifier's power inlet and then to a grounded electrical outlet.

### 5. OPERATING INSTRUCTIONS

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Once the amplifier is set up, follow these steps for operation:

1. **Initial Settings:** Before powering on, ensure both Channel A and Channel B level controls on the front panel are set to their minimum (fully counter-clockwise) position.
2. **Power On Sequence:**
  - Turn on all source equipment (mixers, preamps) first.
  - Flip the main power switch on the front panel of the CS4000 to the "ON" position. The PWR LED for each channel should illuminate.
  - After a brief delay (to allow internal circuits to stabilize), turn on any other power amplifiers in your system.

### 3. Adjusting Levels:

- Start playing audio from your source.
- Slowly increase the Channel A and Channel B level controls clockwise until the desired volume is achieved.
- Monitor the SIG (Signal) LEDs, which should flash with the audio signal. The DDT™ (Distortion Detection Technique) LEDs should only flash occasionally during peak transients. If the DDT™ LEDs are constantly illuminated, reduce the input level or the amplifier's gain to prevent clipping and potential speaker damage.

### 4. Power Off Sequence:

- First, turn off all power amplifiers in your system, including the CS4000.
- Then, turn off all source equipment (mixers, preamps).

## 6. MAINTENANCE

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Proper maintenance ensures the longevity and reliable performance of your amplifier.

- **Cleaning:** Disconnect the power cord before cleaning. Use a soft, dry cloth to wipe the exterior of the amplifier. Do not use liquid cleaners or aerosols.
- **Ventilation:** Regularly check that the ventilation grilles are free from dust and debris. Use a soft brush or vacuum cleaner to gently remove any obstructions.
- **Connections:** Periodically check all input and output connections to ensure they are secure and free from corrosion.
- **Storage:** If storing the amplifier for an extended period, disconnect it from power, clean it, and store it in a dry, temperature-controlled environment, ideally in its original packaging.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter. For problems not listed here, contact qualified service personnel.

Problem	Possible Cause	Solution
No sound output	Power not connected or switched on. Input cables disconnected or faulty. Speaker cables disconnected or faulty. Input level controls set too low. Source equipment not sending signal.	Check power cord and power switch. Verify all input cable connections. Verify all speaker cable connections and polarity. Increase input level controls slowly. Check source equipment for proper operation.
Distorted sound	Input signal too high (clipping). Speaker impedance mismatch. Faulty cables or speakers.	Reduce input level from source or amplifier gain. Ensure speaker impedance is compatible. Test cables and speakers.
Amplifier overheating	Insufficient ventilation. Operating at excessively high levels for extended periods. Speaker impedance too low.	Ensure clear airflow around the unit. Reduce volume or allow unit to cool down. Verify speaker impedance.

## 8. SPECIFICATIONS

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Key technical specifications for the Peavey CS4000 Power Amplifier:

Specification	Value
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Specification	Value
Model Number	CS4000
Product Dimensions	58.42 x 14.99 x 53.34 cm
Item Weight	22.68 kg
Colour	Black
Compatible Devices	Guitar, Bass, Keyboard, Drum, All
Connector Type	Speaker Binding Posts
Audio Wattage (Output)	150 Watts (Note: Product description states 1350W/ch@4ohm, this 150W might be a general audio wattage or a specific test condition. User should refer to full product specs for detailed power ratings.)
Power Source	Corded Electric
Manufacturer	Peavey
Date First Available	7 August 2012

## 9. WARRANTY AND SUPPORT

Peavey products are designed for reliability and performance. This amplifier comes with a manufacturer's warranty covering defects in materials and workmanship under normal use. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Peavey website.

For technical support, service, or parts, please contact Peavey customer service or an authorized Peavey service center. Contact information can typically be found on the Peavey website or in the product packaging.

