

Power Acoustik PC2.0F

Power Acoustik 2.0 Farad Digital Power Capacitor

USER MANUAL

Introduction

The Power Acoustik 2.0 Farad Digital Power Capacitor (Model PC2.0F) is designed to stabilize the electrical system in car audio applications, particularly for high-power amplifiers. It stores electrical energy and releases it quickly to meet the demands of your audio system, preventing voltage drops and dimming lights. This manual provides essential information for safe installation, operation, and maintenance.

Key features include:

- 12-16 DC Volts Operation
- Terminal Post for Ring Terminal connections
- Digital Voltage Meter for real-time monitoring
- Translucent Mounting Brackets for secure installation
- Chrome Plated Finish for durability and aesthetics

Safety Information

WARNING: This product can expose you to chemicals, including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Always disconnect the vehicle's battery before performing any electrical work. Ensure all connections are secure and properly insulated to prevent short circuits. **It is crucial to charge the capacitor before connecting it to the main power source to avoid damage to the capacitor or the vehicle's electrical system.**

Package Contents

Your package should contain the following items:

- Power Acoustik 2.0 Farad Digital Power Capacitor
- Mounting Brackets
- Installation Screws
- Lock Washers

- Charging Resistor (typically included for initial charge)

Specifications

Feature	Detail
Product Dimensions	14 x 7 x 4 inches
Item Weight	3 pounds
Model Number	PC2.0F
Operation Voltage	12-16 DC Volts
Display	Digital Voltage Meter
Finish	Chrome Plated

Installation and Setup

Proper installation is critical for the performance and safety of your capacitor. If you are unsure about any steps, consult a professional car audio installer.

- Mounting:** Securely mount the capacitor using the provided translucent mounting brackets in a location close to your amplifier, ensuring it is protected from excessive heat and moisture.
- Initial Charging:** Before connecting the capacitor to your vehicle's power system, it **must be charged**. Use the charging resistor (typically a small resistor wire) by connecting one end to the capacitor's positive terminal and the other end to the vehicle's positive 12V source. Connect the capacitor's negative terminal to a good ground point. The digital display will show the voltage gradually increasing. Once the voltage stabilizes and matches your vehicle's battery voltage (e.g., 12V), the capacitor is charged. This process prevents a large current surge that could damage the capacitor or blow fuses.
- Wiring:** Connect the capacitor in parallel with your amplifier. The positive terminal of the capacitor connects to the positive 12V power wire from your battery, and the negative terminal connects to a solid chassis ground point. Ensure all connections are clean, tight, and use appropriate gauge wiring and ring terminals. Avoid over-tightening the terminal nuts to prevent damage.
- Voltage Adjustment:** After the capacitor is fully connected and powered, use a voltmeter to measure the voltage at the capacitor's connection point. Adjust the voltage displayed on the capacitor's digital meter to match the voltmeter reading. This adjustment screw is typically located near the positive post and requires a small Phillips head screwdriver. Turn gently.



Image: The Power Acoustik 2.0 Farad Digital Power Capacitor, showing its chrome finish and digital display, ready for installation.

Operation

Once installed and charged, the capacitor operates automatically. The digital voltage meter will display the current system voltage. The display is designed to turn off after a period of inactivity to conserve power and will reactivate when current is drawn, such as when the audio system is turned on or bass notes demand power.

Maintenance

The Power Acoustik capacitor requires minimal maintenance. Periodically check all wiring connections to ensure they remain tight and free from corrosion. Keep the capacitor clean and free of dust and debris. Avoid exposing the unit to extreme temperatures or direct moisture.

Troubleshooting

- **Lights Dimming:** If your vehicle's lights are still dimming during heavy bass notes, ensure the capacitor is properly charged and connected. Verify that the capacitor's capacity (2.0 Farad) is sufficient for your amplifier's power output (a general rule is 1 Farad per 500-1000 watts RMS).

- **No Voltage Display:** Check all power and ground connections. Ensure the capacitor has been properly charged. If the display remains off, it may be in its auto-off state; activate your audio system to see if it turns on.
- **Capacitor Not Charging:** Re-check the charging resistor connection and ensure it's making good contact. Verify the vehicle's battery voltage.
- **Terminal Damage:** Avoid excessive force when tightening terminal nuts. The terminals are made of tinned copper and can be damaged if over-tightened.

Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Power Acoustik website. Keep your proof of purchase for warranty claims.