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PowerBass OE-690D

PowerBass OE-690D 6x9 Inch 3-Way Speaker Instruction Manual

Model: OE-690D | Brand: PowerBass

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your PowerBass OE-690D 6x9 inch 3-Way Speakers. Designed for optimal audio performance, these speakers feature a durable construction and versatile impedance options to integrate seamlessly into various car audio systems. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your speakers.

PRODUCT FEATURES

- **6x9" OE Replacement Woofer:** Designed to fit original equipment speaker locations.
- **Grey Injection Molded PP/Carbon Fiber Cone:** Provides durability and responsive audio.
- **EFF Motor Structures (Efficient Flux Field):** Enhances speaker efficiency and performance.
- **Rigid Tooled Basket With Flat Gray Finish:** Ensures structural integrity and a clean aesthetic.
- **Dual Voice Coil 2Ω or 8Ω Impedance:** Offers flexible wiring options to match various amplifier configurations.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your PowerBass OE-690D speakers. It is recommended that installation be performed by a qualified professional. If you choose to install them yourself, follow these general guidelines:

1. **Safety First:** Disconnect the vehicle's battery before beginning any electrical work.
2. **Vehicle Compatibility:** Ensure the 6x9 inch speakers are compatible with your vehicle's speaker openings. Some vehicles may require minor modifications or spacers for proper fitment.
3. **Wiring Configuration:** The OE-690D speakers feature a dual voice coil design, allowing for 2Ω or 8Ω impedance wiring. Consult your amplifier's specifications to determine the optimal impedance for your system. Incorrect impedance can damage your amplifier or speakers.
4. **Secure Mounting:** Mount the speakers securely using appropriate hardware. Ensure no wires are pinched or exposed, and that the speaker cone has adequate clearance for movement.

5. **Connection:** Connect the speaker wires to the appropriate terminals, observing correct polarity (+ to + and - to -).

Important Note on Impedance: The dual voice coil design allows for flexible wiring. For example, wiring the two voice coils in parallel will result in a 2Ω load, while wiring them in series will result in an 8Ω load. Always verify your amplifier's stable impedance range before connecting.



Image: Top view of the PowerBass OE-690D speaker, showcasing the grey injection molded PP/Carbon Fiber cone and the "pb" logo. This view highlights the speaker's primary surface.



Image: Side profile of the PowerBass OE-690D speaker, illustrating its mounting depth and the magnet structure. This view is useful for assessing fitment in shallow mounting applications.



Image: Rear view of the PowerBass OE-690D speaker, showing the magnet, rigid basket, and wiring terminals. The label with "OE-690D" and "4Ω DUAL" is visible, indicating the dual voice coil impedance options.

OPERATING INSTRUCTIONS

Once installed, your PowerBass OE-690D speakers are ready for use. Follow these general operating guidelines:

- **Initial Power-Up:** After installation, turn on your audio system at a low volume. Gradually increase the volume to ensure all connections are correct and the speakers are functioning as expected.
- **Break-In Period:** Allow a break-in period of several hours of normal listening before operating the speakers at high volumes. This allows the speaker components to loosen and perform optimally.
- **Volume Control:** Avoid excessive volume levels that cause audible distortion. Distortion can damage speakers and reduce their lifespan.
- **Equalization:** Adjust your audio system's equalizer settings to achieve your preferred sound balance. Start with flat settings and make small adjustments.

MAINTENANCE

The PowerBass OE-690D speakers are designed for durability and require minimal maintenance. Follow these tips to ensure their longevity:

- **Cleaning:** Use a soft, dry cloth to gently wipe dust or debris from the speaker cones and surrounds. Avoid using harsh chemicals or abrasive cleaners.

- **Environmental Protection:** While the speakers feature a robust design, avoid exposing them to extreme moisture or direct sunlight for prolonged periods, as this can degrade materials over time.
- **Inspection:** Periodically inspect speaker connections for any signs of corrosion or loose wiring.

TROUBLESHOOTING

If you experience issues with your PowerBass OE-690D speakers, consult the following troubleshooting guide:

Problem	Possible Cause	Solution
No Sound from Speaker	Loose or incorrect wiring connection. Amplifier not powered on or faulty. Incorrect impedance match.	Check all speaker wire connections for proper polarity and secure fit. Verify amplifier power and functionality. Ensure speaker impedance matches amplifier requirements.
Distorted Sound	Volume too high, causing clipping. Incorrect equalizer settings. Damaged speaker cone or voice coil.	Reduce volume to eliminate distortion. Adjust equalizer settings; try a flat setting first. Inspect speaker for physical damage. If damaged, replacement may be necessary.
Weak or Muffled Sound	Incorrect wiring polarity. Low power from amplifier.	Double-check wiring polarity (+ to + and - to -). Ensure amplifier is providing adequate power to the speakers.

If problems persist after attempting these solutions, contact PowerBass customer support or a certified car audio technician.

SPECIFICATIONS

Feature	Detail
Brand	PowerBass
Model Number	OE-690D
Speaker Type	Woofer
Speaker Size	6x9 Inches
Woofer Diameter	6 Inches
Tweeter Diameter	0.75 Inches
Power Handling	100 Watts RMS / 300 Watts Max
Frequency Response	50 Hz
Impedance	Dual Voice Coil 2Ω or 8Ω

Feature	Detail
Cone Material	Injection Molded PP/Carbon Fiber
Mounting Type	Shallow Mounting
Item Weight	6 Pounds
Item Dimensions (D x W x H)	16"D x 5.5"W x 10.75"H
Compatible Vehicle Type	Car
GTIN (UPC)	823871009039

WARRANTY AND SUPPORT

Your PowerBass OE-690D speakers come with a **1-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. For warranty claims or technical support, please contact PowerBass customer service directly.

Manufacturer: PowerBass

For further assistance, please visit the official PowerBass website or consult your authorized dealer.

