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## PowerBass S-4002

# Powerbass S-4002 4-inch Coaxial OEM Speakers Instruction Manual

Model: S-4002

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Powerbass S-4002 4-inch Coaxial OEM Speakers. Please read this manual thoroughly before installation to ensure proper setup and optimal performance. Retain this manual for future reference.

## SAFETY INFORMATION

- Always disconnect the vehicle's battery before beginning any electrical installation to prevent electrical shock or damage.
- Ensure all wiring is properly insulated and secured to prevent short circuits and potential fire hazards.
- Wear appropriate safety gear, including eye protection, during installation.
- Consult a professional installer if you are unsure about any part of the installation process.
- Do not expose speakers to excessive moisture or extreme temperatures.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

## PACKAGE CONTENTS

Verify that all items are present in the package:

- Two (2) Powerbass S-4002 4-inch Coaxial Speakers
- One (1) Instruction Manual
- Mounting hardware (screws, j-nuts, template - if included in standard packaging)

## FEATURES

The Powerbass S-4002 speakers are designed for enhanced audio performance in vehicles. Key features include:

- **Power Handling:** 35 Watts RMS / 105 Watts Max
- **Cone Material:** DDC (Dynamic Damping Coating) paper cone for improved sound reproduction.
- **Basket Design:** Non-resonant treated basket to minimize unwanted vibrations.
- **Tweeter:** 0.75-inch silk dome Neo tweeter for clear high-frequency response.
- **Magnet:** 6-ounce magnet for efficient power conversion.

## SETUP & INSTALLATION

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Proper installation is crucial for optimal sound quality and speaker longevity. Follow these steps carefully.

### 1. Preparation

1. **Disconnect Battery:** Before starting, disconnect the negative terminal of your vehicle's battery to prevent electrical issues.
2. **Access Mounting Location:** Carefully remove any panels or grilles covering the speaker mounting locations in your vehicle.
3. **Check Fitment:** Ensure the 4-inch speakers fit the existing openings. If custom cutting is required, use the provided template (if applicable) and appropriate tools.

### 2. Mounting the Speakers

The S-4002 speakers are designed for easy replacement of factory OEM speakers. The mounting tabs are designed to align with common factory speaker locations.



*Image: Two Powerbass S-4002 4-inch coaxial speakers. These speakers feature a black cone, a central silk dome tweeter, and a sturdy mounting frame with multiple screw holes for versatile installation.*



*Image: Powerbass S-4002 4-inch coaxial speaker with labeled dimensions. The image shows the speaker's physical measurements, indicating a depth of 3.4 inches, a width of 6.2 inches (likely mounting width), and a height of 12.6 inches (likely package height or overall diagonal). For precise fitment, measure your vehicle's speaker opening.*

4. Position the speaker in the desired mounting location.
5. Align the mounting holes on the speaker frame with the screw holes in the vehicle.
6. Secure the speaker using the provided screws and j-nuts. Do not overtighten, as this can damage the speaker frame or mounting surface.

### **3. Wiring**

The S-4002 speakers have a 4 Ohm impedance. Ensure your amplifier or head unit is compatible with this impedance.



*Image: Side view of a Powerbass S-4002 speaker. This view highlights the speaker's magnet, the sturdy metal basket, and the two spade terminals for electrical connection.*

7. Connect the positive (+) speaker wire from your amplifier/head unit to the positive (+) terminal on the speaker.
8. Connect the negative (-) speaker wire from your amplifier/head unit to the negative (-) terminal on the speaker.
9. Ensure all connections are secure and free from shorts. Use crimp connectors or solder for reliable connections.
10. Once wiring is complete, replace any removed panels or grilles.
11. Reconnect the vehicle's battery.

## OPERATION

After installation, turn on your vehicle's audio system and test the speakers. Start with a low volume and gradually increase it to ensure proper function and sound quality. Adjust your audio system's settings (bass, treble, balance, fader) to achieve your preferred sound.

These speakers are designed for music playback in a 2.0 channel stereo configuration.

## MAINTENANCE

The Powerbass S-4002 speakers require minimal maintenance.

- Keep the speakers free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the speakers to direct sunlight for extended periods, as this can degrade materials over time.
- Do not apply excessive force or pressure to the speaker cones or tweeters.
- Ensure the speakers are not exposed to water or excessive moisture, as they are not waterproof.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound from speakers	<ul style="list-style-type: none"> <li>Loose or incorrect wiring</li> <li>Amplifier/head unit off or faulty</li> <li>Speaker damaged</li> </ul>	<ul style="list-style-type: none"> <li>Check all speaker connections for proper polarity and tightness.</li> <li>Verify amplifier/head unit is powered on and functioning.</li> <li>Test with a known working speaker or consult a professional.</li> </ul>
Distorted sound	<ul style="list-style-type: none"> <li>Volume too high</li> <li>Incorrect amplifier gain settings</li> <li>Speaker damaged</li> <li>Loose mounting</li> </ul>	<ul style="list-style-type: none"> <li>Reduce volume.</li> <li>Adjust amplifier gain settings appropriately.</li> <li>Inspect speaker for physical damage.</li> <li>Ensure speakers are securely mounted.</li> </ul>
One speaker not working	<ul style="list-style-type: none"> <li>Faulty wiring to that speaker</li> <li>Speaker damaged</li> <li>Fader setting incorrect</li> </ul>	<ul style="list-style-type: none"> <li>Check wiring for the non-working speaker.</li> <li>Swap speakers to determine if the speaker or wiring is at fault.</li> <li>Adjust fader settings on your head unit.</li> </ul>

## SPECIFICATIONS

Feature	Detail
Model	S-4002
Speaker Type	Coaxial
Speaker Size	4 Inches
Power Handling (RMS/Max)	35 Watts RMS / 105 Watts Max
Impedance	4 Ohm
Cone Material	2 Layer Paper DDC cone
Tweeter	0.75-inch silk dome Neo tweeter
Magnet Weight	6 Ounces
Lower Frequency Response Limit	70 Hz
Surround Sound Channel Configuration	2.0
Mounting Type	Coaxial
Waterproof	No
Item Weight	3 Pounds (for the pair)
UPC	823871005819

## WARRANTY & SUPPORT

For warranty information or technical support, please refer to the official PowerBass website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.

**Manufacturer:** Powerbass

**Website:** [www.powerbassusa.com](http://www.powerbassusa.com)

## Related Documents - S-4002

 <b>PowerBass OE Series Component Application Guide</b> This application guide provides detailed information on the PowerBass Autosound OE Series Component speakers, including features, specifications, installation procedures, and warranty policy.	
 <b>PowerBass XL-BTRS Universal Bluetooth Rocker Switch Application Guide</b> Detailed application guide for the PowerBass XL-BTRS Universal Bluetooth Rocker Switch, covering wiring, controller layout, operation, pairing, and specifications.	
 <b>PowerBass Xtreme Amplified Bluetooth Soundbar XL Series - Application Guide &amp; Specifications</b> Comprehensive application guide and technical specifications for the PowerBass Xtreme XL-1250, XL-850, and XL-650 amplified Bluetooth soundbars. Includes installation tips, troubleshooting, and warranty information.	
 <b>PowerBass ASA Series Class A/B Amplifiers - Owner's Manual and Installation Guide</b> This official owner's manual provides detailed instructions for installing, operating, and troubleshooting PowerBass ASA Series Class A/B mobile amplifiers, including models ASA3-200.2 through ASA3-1100.5.	
 <b>Powerbass BT-150 SoundCube User Manual: Setup, Operation, and Specifications</b> Comprehensive user manual for the Powerbass BT-150 SoundCube portable Bluetooth speaker, covering setup, pairing, TWS function, basic operation, interface instructions, technical specifications, notes, FAQ, and safety information.	

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XTREME



PBX-DSP8  
8 CHANNEL DIGITAL SIGNAL PROCESSOR  
Owners Manual

[PowerBass PBX-DSP8 8-Channel Digital Signal Processor Owners Manual](#)

Comprehensive owners manual for the PowerBass PBX-DSP8 8-Channel Digital Signal Processor, detailing installation, setup, features, and troubleshooting for car audio systems.