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PowerBass S1004D

PowerBass S-1004D 10-inch Dual 4 Ohm Subwoofer Instruction Manual

Model: S-1004D

1. INTRODUCTION

Thank you for choosing the PowerBass S-1004D 10-inch Dual 4 Ohm Subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your subwoofer. Please read this manual thoroughly before attempting installation or use to ensure optimal performance and safety.



Image 1.1: Front view of the PowerBass S-1004D 10-inch Dual 4 Ohm Subwoofer, showcasing the cone and 'pb' logo.

2. SAFETY INFORMATION

Observe the following safety precautions during installation and operation:

- Always disconnect the vehicle's battery negative terminal before beginning any electrical work.
- Ensure all wiring is properly insulated to prevent short circuits.
- Mount the subwoofer securely to prevent movement during vehicle operation.
- Avoid exposing the subwoofer to excessive moisture or extreme temperatures.
- Do not operate the subwoofer beyond its rated power handling capabilities to prevent damage.
- Professional installation is recommended for optimal performance and safety.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- PowerBass S-1004D Subwoofer (1 unit)

- Instruction Manual (this document)

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your subwoofer. If you are unsure about any step, consult a professional car audio installer.

4.1 Mounting Considerations

The S-1004D is designed for flush mounting. Ensure the mounting surface is rigid and capable of supporting the subwoofer's weight and vibrations. Refer to the specifications for recommended enclosure volumes and mounting dimensions.



Image 4.1: Side view of the PowerBass S-1004D subwoofer, showing the depth and terminal connections.

4.2 Wiring the Subwoofer

The S-1004D features a dual 4 Ohm voice coil. This allows for flexible wiring configurations to match your amplifier's impedance requirements. Common configurations include:

- **Parallel Wiring (2 Ohms):** Connect the positive terminals of both voice coils together, and the negative terminals of both voice coils together. Connect the amplifier's positive output to the combined positive terminals, and the amplifier's negative output to the combined negative terminals. This results in a 2 Ohm load.
- **Series Wiring (8 Ohms):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. Connect the amplifier's positive output to the remaining positive terminal, and the amplifier's negative output to the remaining negative terminal. This results in an 8 Ohm load.

Always ensure correct polarity and secure connections using the chrome push input terminals. Refer to your amplifier's manual for compatible impedance loads.



Image 4.2: Close-up view of the PowerBass S-1004D subwoofer's chrome push input terminals for wiring connections.

5. OPERATING INSTRUCTIONS

Once installed, follow these guidelines for operating your subwoofer:

- **Amplifier Matching:** Ensure your amplifier's power output (RMS) is within the recommended range for the S-1004D (275W RMS). Overpowering or underpowering can lead to damage.
- **Gain Setting:** Set the amplifier's gain control carefully. Start with the gain at minimum and slowly increase it until the desired volume is achieved without distortion.
- **Crossover Settings:** Use a low-pass filter (LPF) on your amplifier or head unit to send only low-frequency signals to the subwoofer. A typical LPF setting for a 10-inch subwoofer is between 80Hz and 120Hz.
- **Break-in Period:** Allow a break-in period of approximately 10-20 hours of moderate listening before operating the subwoofer at high volumes. This allows the suspension components to loosen and perform optimally.

6. MAINTENANCE

The PowerBass S-1004D subwoofer requires minimal maintenance to ensure long-term performance:

- **Cleaning:** Use a soft, dry cloth to wipe down the cone and surround. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically check the wiring connections for tightness and ensure there are no signs of corrosion or fraying. Inspect the subwoofer surround for any tears or damage.
- **Environment:** Keep the subwoofer in a dry, stable environment. Avoid prolonged exposure to direct sunlight or extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your S-1004D subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound from subwoofer	No power to amplifier, loose wiring, incorrect input signal, amplifier in protect mode.	Check amplifier power and ground connections. Verify all signal cables are connected. Inspect wiring for shorts or open circuits. Reset amplifier if in protect mode.
Distorted or unclear bass	Gain set too high, incorrect crossover settings, damaged voice coil, improper enclosure.	Reduce amplifier gain. Adjust LPF settings. Inspect subwoofer for physical damage. Ensure enclosure meets recommended specifications.
Subwoofer cuts out intermittently	Loose connections, overheating amplifier, impedance mismatch.	Check all wiring connections. Ensure adequate ventilation for the amplifier. Verify subwoofer wiring matches amplifier's stable impedance.

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

8. SPECIFICATIONS

Technical specifications for the PowerBass S-1004D 10-inch Dual 4 Ohm Subwoofer:

- **Model:** S-1004D
- **Speaker Type:** Subwoofer
- **Subwoofer Diameter:** 10 Inches
- **Woofers Diameter:** 10 Inches
- **Impedance:** Dual 4 Ohms
- **RMS Power Handling:** 275 Watts
- **Maximum Output Power:** 550 Watts
- **Frequency Response:** 33 Hz (lower limit)
- **Voice Coil:** 2-Inch BASV
- **Cone Material:** 4-layer Paper/Wool
- **Basket Material:** Stamped Steel
- **Terminals:** Chrome Push Input
- **Mounting Type:** Flush Mount
- **Product Dimensions:** 11"D x 6.8"W x 11"H
- **Item Weight:** 10.2 Pounds
- **Connectivity Technology:** Wired (Auxiliary, RCA compatible via amplifier)
- **Compatible Devices:** Car Audio System, Home Theater (with appropriate amplification)

9. WARRANTY AND SUPPORT

The PowerBass S-1004D Subwoofer comes with an extended warranty. For specific details regarding warranty coverage, duration, and claims, please refer to the warranty card included with your product or visit the official PowerBass website.

For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact PowerBass customer service through their official channels. Provide your product model number (S-1004D) and purchase information when seeking support.

PowerBass Contact Information:

- Refer to the official PowerBass website for the most current contact details.

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