**BOSS Audio Systems 6 x P126DVC**

# BOSS Audio Systems Phantom Subwoofer User Manual

Model: 6 x P126DVC

## 1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your BOSS Audio Systems Phantom 12-inch Car Audio Subwoofer. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.
The BOSS Audio Systems Phantom subwoofer is designed to enhance your car audio experience with powerful bass reproduction. Key features include:

- 2300 watts maximum power handling.
- 1150 watts RMS power handling.
- Dual 4 ohm voice coils for flexible wiring configurations.
- Durable poly injection cone for robust performance.
- Competition-style binding posts for secure connections.

Figure 1.1: Six BOSS Audio Systems Phantom 12-inch subwoofers, showcasing the product in a multi-pack configuration.

## 2. Safety Precautions

Adhering to safety precautions is vital to prevent injury and damage to your equipment. Always follow these guidelines:

- Always disconnect the vehicle's battery negative terminal before beginning any electrical work.
- Ensure proper ventilation for the subwoofer and amplifier to prevent overheating.
- Use appropriate gauge wiring for power, ground, and speaker connections to handle the power output.
- Avoid installing the subwoofer in locations where it may be exposed to moisture or extreme temperatures.
- Consult a professional car audio installer if you are unsure about any installation steps.

## 3. Setup and Installation

Proper installation is crucial for optimal performance and safety. This section outlines general steps for installing the subwoofer. Specific enclosure requirements and wiring diagrams should be determined based on your amplifier and desired impedance.

### 3.1 Enclosure Selection and Mounting

The BOSS Phantom subwoofer requires a suitable enclosure for proper operation. Common enclosure types include sealed, ported, or bandpass. Refer to the subwoofer's Thiele-Small parameters (typically found in product documentation or manufacturer's website) for recommended enclosure volumes. The mounting depth for this subwoofer is 6.75 inches.

Figure 3.1: Angled view of a single BOSS Audio Systems Phantom subwoofer, highlighting its overall design and structure.

Figure 3.2: Side profile of the BOSS Audio Systems Phantom subwoofer, illustrating its depth for enclosure planning.

1. **Prepare the Enclosure:** Ensure the enclosure has the correct internal volume and is structurally sound. Cut a circular opening for the subwoofer that matches its mounting diameter.
2. **Mount the Subwoofer:** Carefully place the subwoofer into the opening. Align the mounting holes and secure the subwoofer using appropriate screws. Do not overtighten.
3. **Seal the Enclosure:** Ensure a tight seal between the subwoofer frame and the enclosure to prevent air leaks, which can degrade performance.

## 3.2 Wiring Connections

The Phantom subwoofer features dual 4 ohm voice coils, offering flexibility in wiring configurations (e.g., 2 ohm, 4 ohm, or 8 ohm total impedance) depending on your amplifier's capabilities. Always match the subwoofer's final impedance to your amplifier's stable operating impedance.

Figure 3.3: Rear view of the BOSS Audio Systems Phantom subwoofer, showing the competition-style binding posts for wiring connections.

1. **Identify Terminals:** Locate the positive (+) and negative (-) terminals for each voice coil.
2. **Choose Wiring Configuration:**
    - **Parallel Wiring (2 Ohm):** Connect positive of voice coil 1 to positive of voice coil 2, and negative of voice coil 1 to negative of voice coil 2. Then connect these combined terminals to the amplifier.
    - **Series Wiring (8 Ohm):** Connect positive of voice coil 1 to the amplifier's positive terminal. Connect negative of voice coil 1 to positive of voice coil 2. Connect negative of voice coil 2 to the amplifier's negative terminal.
3. **Secure Connections:** Use high-quality speaker wire and ensure all connections are tight and free from shorts. The competition-style binding posts provide a secure connection.
4. **Connect to Amplifier:** Route the speaker wire from the subwoofer to the appropriate speaker output terminals on your amplifier.

## 4. Operating Instructions

Once installed, proper amplifier settings are essential for optimal subwoofer performance and to prevent damage.

1. **Set Amplifier Gain:** Start with the amplifier gain at its minimum setting. Gradually increase the gain until the desired volume is achieved without distortion. Do not use the gain control as a volume knob.
2. **Adjust Low-Pass Filter (LPF):** Set the LPF on your amplifier or head unit to filter out high frequencies from reaching the subwoofer. A common range is 80-120 Hz, but this can vary based on your system and preference.
3. **Subsonic Filter (Optional but Recommended):** If your amplifier has a subsonic filter, set it to protect the subwoofer from playing frequencies below its resonant frequency, which can cause damage. A common setting is 25-30 Hz.
4. **Phase Control:** Experiment with the phase switch (0° or 180°) on your amplifier to find the setting that provides the most cohesive bass response with your front speakers.
5. **Break-in Period:** Allow a break-in period of approximately 10-20 hours of moderate listening before pushing the subwoofer to its maximum capabilities. This allows the suspension components to loosen up.

## 5. Maintenance

The BOSS Phantom 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 abrasive cleaners.
- **Inspection:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Inspect the subwoofer cone and surround for any signs of damage or wear.
- **Environmental Protection:** Ensure the subwoofer is protected from direct sunlight, extreme temperatures, and moisture.

## 6. Troubleshooting

This section addresses common issues you might encounter with your subwoofer system.

| Problem | Possible Cause | Solution |
|---|---|---|
| No Sound from Subwoofer | Amplifier not powered on.<br>Loose or incorrect wiring.<br>Blown fuse in amplifier or power wire.<br>Head unit settings incorrect (e.g., subwoofer output off). | Check amplifier power light.<br>Verify all power, ground, remote, and speaker connections.<br>Inspect and replace fuses if necessary.<br>Check head unit's audio settings for subwoofer output. |
| Distorted Sound | Amplifier gain set too high.<br>Subwoofer overdriven.<br>Incorrect LPF setting.<br>Damaged subwoofer or amplifier. | Reduce amplifier gain.<br>Lower volume level.<br>Adjust LPF to a suitable frequency (e.g., 80-120 Hz).<br>Inspect subwoofer cone/surround for damage. Test with another amplifier if possible. |
| Weak or Muffled Bass | Incorrect wiring (e.g., out of phase).<br>Enclosure issues (too small/large, leaks).<br>Amplifier not providing enough power. | Check subwoofer wiring for correct polarity. Adjust phase switch on amplifier.<br>Verify enclosure volume and seal.<br>Ensure amplifier power matches subwoofer RMS rating. |

## 7. Specifications

Detailed technical specifications for the BOSS Audio Systems Phantom 12-inch Subwoofer (Model: 6 x P126DVC).

Figure 7.1: Front view of the BOSS Audio Systems Phantom subwoofer, showing the cone and surround.

| Feature | Detail |
|---|---|
| Model Name | 6 x P126DVC |
| Speaker Type | Subwoofer |
| Subwoofer Diameter | 12 Inches |
| Speaker Maximum Output Power | 2300 Watts (Peak) |
| RMS Power | 1150 Watts |
| Voice Coils | Dual 4 Ohm |

| Feature | Detail |
| --- | --- |
| Cone Material | Poly Injection |
| Mounting Depth | 6.75 Inches |
| Impedance | 4 Ohm (per voice coil) |
| Efficiency | 84 dB |
| Frequency Response | 31 Hz |
| Connectivity Technology | Coaxial |
| Color | Black |
| Manufacturer | BOSS Audio Systems |
| ASIN | B07HR4ZC7M |
| UPC | 840023824746 |

Figure 7.2: Bottom view of the BOSS Audio Systems Phantom subwoofer, showing the magnet structure and ventilation.

## 8. Warranty and Support

For warranty information and technical support, please contact BOSS Audio Systems directly. Keep your purchase receipt as proof of purchase for warranty claims.

You can visit the official BOSS Audio Systems store on Amazon for more information and contact details:

**Visit BOSS Audio Systems Store**

For customer support inquiries, refer to the contact information provided with your product packaging or on the official BOSS Audio Systems website.

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