

Pyle PLPW6D

Pyle Car Vehicle Subwoofer Audio Speaker User Manual

Model: PLPW6D

Brand: Pyle

INTRODUCTION

The Pyle PLPW6D is a 6.5-inch car vehicle subwoofer designed to enhance your audio system with powerful bass. This subwoofer features a non-pressed paper cone, black plastic basket, dual voice coil, and foam surround, making it suitable for various car audio setups. It is engineered for high sound resonance and robust performance.

WHAT'S IN THE BOX

- Power Series Dual Voice-coil 4ohm Subwoofer (6.5", 600 Watts)
- Necessary Cables
- Installation Template
- Manual (this document)

PRODUCT FEATURES

- **600 Watt Power:** This 6.5-inch car subwoofer delivers 300 Watt RMS to 600 Watt peak power for high sound resonance. It includes spring-loaded push-down speaker terminals for optimized sound quality.
- **Unmatched Performance:** Built with a 30 oz. magnet, it enhances car stereo or radio performance by producing powerful audio. It has a sensitivity (SPL) of 89dB for clear sound.
- **Dual Voice Coil:** Features a dual 4 Ohm impedance, allowing wiring as 4 or 8 Ohm. The 1.5-inch 4-layer dual voice coil is designed for corrosion resistance and extended lifespan.
- **Treated Foam Surround:** Constructed with a specially treated foam surround for durability and non-fatiguing suspension, ensuring equipment safety. It boasts a non-pressed paper cone and black plastic basket.
- **2.9" Mounting Depth:** Easy to install with its 2.9-inch mounting depth, fitting most audio systems in cars, boats, or RVs. The overall diameter is 6 inches.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your Pyle subwoofer. It is recommended that installation be performed by a qualified professional.

Mounting

The PLPW6D subwoofer requires a mounting depth of 2.9 inches. Use the provided installation template to mark and cut the appropriate opening in your vehicle's speaker enclosure or mounting location. Ensure sufficient clearance behind the speaker for proper ventilation and wiring connections. Secure the subwoofer using appropriate screws through the mounting holes.



Figure 1: Product dimensions and mounting depth for the Pyle PLPW6D subwoofer.

Wiring

This subwoofer features a dual 4 Ohm voice coil, offering flexibility in wiring configurations (4 Ohm or 8 Ohm). Consult your amplifier's manual for recommended impedance loads and wiring diagrams. Connect the speaker wires to the spring-loaded push-down terminals on the subwoofer, ensuring correct polarity (+ to + and - to -) for optimal sound reproduction.



DUAL 4 OHM IMPEDANCE

Figure 2: Rear view of the Pyle PLPW6D subwoofer showing the dual 4 Ohm impedance and wiring terminals.

Connecting to Amplifier

Once mounted and wired, connect the subwoofer to a compatible amplifier. Ensure the amplifier's power output matches the subwoofer's power handling capabilities (300W RMS / 600W Peak). Incorrect power matching can lead to damage to either component. Use high-quality speaker wire for the best audio signal transfer.



Figure 3: Example installation of the Pyle PLPW6D subwoofer in a car trunk, demonstrating its compact fit.

OPERATING INSTRUCTIONS

The Pyle PLPW6D subwoofer operates as part of your car's audio system. Once properly installed and connected to an amplifier, its operation is controlled by your head unit or external audio processor.

- **Power On/Off:** The subwoofer will power on and off with your amplifier and car's ignition.
- **Volume Control:** Adjust the subwoofer's output level via your amplifier's gain control and your head unit's subwoofer level settings.
- **Crossover Settings:** For optimal sound, set the low-pass filter on your amplifier or head unit to direct only low frequencies to the subwoofer. A typical range for a 6.5-inch subwoofer might be between 80Hz and 120Hz, but this can vary based on your full audio system.
- **Phase Control:** Some amplifiers offer a phase switch (0° or 180°). Experiment with this setting to find the position that provides the most cohesive bass response with your other speakers.

MAINTENANCE

To ensure the longevity and performance of your Pyle subwoofer, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe down the cone and surround. Avoid using harsh chemicals or abrasive cleaners, as these can damage the materials.
- **Protection:** If the subwoofer is installed in an exposed area, consider using a protective grille to prevent accidental damage to the cone and surround.
- **Environmental Factors:** Avoid exposing the subwoofer to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- **Connection Check:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.

TROUBLESHOOTING

If you experience issues with your Pyle subwoofer, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Sound from Subwoofer	◦ Loose or incorrect wiring connections. ◦ Amplifier not powered on or in protect mode. ◦ Head unit settings incorrect (e.g., subwoofer output off). ◦ Blown fuse in amplifier or power line. ◦ Damaged subwoofer voice coil.	◦ Check all wiring for secure connections and correct polarity. ◦ Verify amplifier power and status indicator. ◦ Check head unit audio settings, ensure subwoofer output is enabled and volume is up. ◦ Inspect and replace any blown fuses. ◦ If voice coil is damaged, professional repair or replacement may be necessary.
Distorted or Weak Sound	◦ Amplifier gain set too high or too low. ◦ Incorrect crossover settings. ◦ Improper impedance matching. ◦ Damaged cone or surround. ◦ Poor quality audio source.	◦ Adjust amplifier gain to match head unit output. ◦ Review and adjust crossover settings on amplifier or head unit. ◦ Ensure subwoofer wiring matches amplifier's impedance requirements. ◦ Inspect the cone and foam surround for tears or damage. ◦ Test with a different audio source.
Rattling Noise	◦ Loose mounting screws. ◦ Enclosure vibration. ◦ Debris inside the speaker. ◦ Voice coil rub (internal damage).	◦ Tighten all mounting screws. ◦ Add sound deadening material to the enclosure or vehicle panels. ◦ Carefully inspect the cone area for any foreign objects. ◦ If voice coil rub is suspected, professional inspection is required.

If these steps do not resolve the issue, please contact Pyle customer support or a certified car audio technician.

SPECIFICATIONS

Model Name	PLPW6D
Speaker Type	Subwoofer
Subwoofer Diameter	6.5 Inches
Speaker Maximum Output Power	600 Watts (Peak)
Impedance	Dual 4 Ohm
Voice Coil	1.5-inch 4 Layer Dual Voice Coil
Magnet Weight	30 oz.
Sensitivity (SPL)	89 dB
Mounting Depth	2.9 Inches
Product Dimensions	7"D x 7"W x 3.75"H
Item Weight	2.65 Pounds
Material	Plastic Basket, Non-Pressed Paper Cone, Foam Surround
Connectivity Technology	Wired

WARRANTY AND SUPPORT

This Pyle product comes with a limited warranty. For specific warranty terms and conditions, please refer to the official warranty documentation included with your purchase or visit the Pyle website. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Pyle customer service. You can also refer to the official User Manual (PDF) available online for more detailed information [Pyle PLPW6D User Manual PDF](#)