

Soundstream PCO.8

Soundstream PCO.8 8-inch Picasso Series Car Subwoofer Instruction Manual

Model: PCO.8

1. INTRODUCTION

Thank you for choosing the Soundstream PCO.8 Picasso Series 8-inch car subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your new subwoofer. Please read this manual thoroughly before attempting installation or use to ensure optimal performance and longevity of your product.

2. PRODUCT FEATURES

- **Picasso Series 8-inch Subwoofer:** Designed for high-quality bass reproduction in a compact size.
- **2-inch Single Voice Coil (SVC) 4 Ohm:** Provides flexible wiring options and compatibility with various amplifiers.
- **250 Watts Maximum Output Power:** Capable of handling significant power for impactful bass.
- **Polypropylene Cone:** Durable and lightweight for accurate sound reproduction.
- **Stitched and Glued Cone/Surround Bonding:** Enhances durability and reliability.
- **NBR Rubber Surround:** Offers excellent excursion and longevity.
- **Vented T-Yoke:** Aids in voice coil cooling for sustained performance.
- **Frame Vents:** Further improves voice coil heat dispersion.
- **Push Terminals:** Facilitates secure and easy wire connections.
- **4-inch Mounting Depth:** Allows for installation in a variety of enclosures and vehicle spaces.

3. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's negative battery terminal before starting any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated and secured to prevent damage from vibration or abrasion.
- Use appropriate gauge wiring for power, ground, and speaker connections to avoid overheating and power loss.
- Mount the subwoofer securely within an appropriate enclosure to prevent movement during vehicle operation.
- Avoid prolonged exposure to extremely high volume levels, which can cause hearing damage.
- If you are unsure about any part of the installation process, consult a professional car audio installer.

4. INSTALLATION AND SETUP

4.1 Enclosure Selection

The performance of your subwoofer is highly dependent on the enclosure it is mounted in. For optimal sound quality and longevity, it is recommended to use a sealed or ported enclosure designed for an 8-inch subwoofer. Consult your amplifier's manual and subwoofer specifications for recommended enclosure volumes.

4.2 Mounting

The PCO.8 subwoofer requires a mounting depth of 4 inches. Ensure that the chosen mounting location and enclosure provide sufficient clearance for the subwoofer's magnet structure and allow for proper air circulation.



Figure 1: Top-down view of the Soundstream PCO.8 subwoofer, highlighting the polypropylene cone and NBR rubber surround.



Figure 2: Rear view of the Soundstream PCO.8 subwoofer, illustrating the magnet structure, vented T-yoke, and the red and black push terminals for wiring connections.

4.3 Wiring

The PCO.8 features a single 4 Ohm voice coil. Proper wiring to your amplifier is crucial for stable operation and optimal sound. Refer to your amplifier's manual for specific wiring instructions and impedance compatibility. Always ensure correct polarity (+ to + and - to -) when connecting the subwoofer to the amplifier.

4.3.1 Single Subwoofer, Single Amplifier Channel

Connect the positive (+) terminal of the subwoofer to the positive (+) speaker output of the amplifier. Connect the negative (-) terminal of the subwoofer to the negative (-) speaker output of the amplifier. This configuration will present a 4 Ohm load to the amplifier.

5. OPERATING INSTRUCTIONS

5.1 Break-in Period

Allow a break-in period of approximately 10-20 hours of normal listening before operating the subwoofer at high volumes. This allows the suspension components (surround and spider) to loosen up, improving performance and longevity.

5.2 Amplifier Gain Setting

Set your amplifier's gain control carefully. The gain control is not a volume knob; it matches the output voltage of your head unit to the input sensitivity of your amplifier. Incorrect gain settings can lead to distortion and potential damage to the subwoofer. Start with the gain at its lowest setting, then slowly increase it until you hear distortion, then back off slightly.

5.3 Crossover Settings

Utilize your amplifier's or head unit's low-pass filter (LPF) to send only low frequencies to the subwoofer. A typical LPF setting for an 8-inch subwoofer might be between 80Hz and 120Hz, depending on your other speakers and personal preference. Avoid sending full-range audio to the subwoofer, as this can cause distortion and reduce

efficiency.

6. MAINTENANCE

The Soundstream PCO.8 subwoofer requires minimal maintenance. Follow these guidelines to keep your subwoofer in optimal condition:

- Regularly inspect the speaker terminals and wiring for secure connections and signs of corrosion.
- Keep the subwoofer cone and surround free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the subwoofer to extreme temperatures or moisture.
- Ensure the enclosure remains sealed and free from air leaks, which can degrade performance.

7. TROUBLESHOOTING

If you experience issues with your Soundstream PCO.8 subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from subwoofer	<ul style="list-style-type: none">• No power to amplifier• Loose or incorrect wiring• Amplifier in protect mode• Head unit settings	<ul style="list-style-type: none">• Check amplifier power, ground, and remote turn-on connections.• Verify all speaker and RCA connections are secure and correct.• Check amplifier for fault indicators; consult amplifier manual.• Ensure subwoofer output is enabled and volume is up on head unit.
Distorted or unclear sound	<ul style="list-style-type: none">• Amplifier gain set too high• Incorrect crossover settings• Damaged subwoofer• Poor quality audio source	<ul style="list-style-type: none">• Reduce amplifier gain until distortion disappears.• Adjust LPF settings; ensure no full-range signal is sent.• Inspect subwoofer cone and surround for physical damage.• Use high-quality audio files or sources.
Subwoofer cuts out intermittently	<ul style="list-style-type: none">• Loose wiring connection• Amplifier overheating• Impedance mismatch	<ul style="list-style-type: none">• Check all wiring connections for tightness.• Ensure amplifier has adequate ventilation.• Verify subwoofer impedance matches amplifier's stable operating range.

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

8. SPECIFICATIONS

Feature	Specification
Brand	Soundstream
Model Number	PCO.8
Speaker Size	8 Inches
Voice Coil	2" SVC (Single Voice Coil)
Impedance	4 Ohms
Maximum Output Power	250 Watts
Mounting Depth	4 Inches
Cone Material	Polypropylene
Surround Material	NBR Rubber
Connectivity Technology	Wired
GTIN / UPC	709483046351

9. WARRANTY AND SUPPORT

Soundstream products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your product or visit the official Soundstream website. For technical support or service inquiries, please contact Soundstream customer service through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.