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› AudioControl PNW Series 6x9" Coaxial Full Range Car Speakers Instruction Manual

AudioControl PNW-69

AudioControl PNW Series 6x9" Coaxial Full Range Car Speakers

Model: PNW-69

Brand: AudioControl

INTRODUCTION

The AudioControl PNW Series 6x9" Coaxial Full Range Car Speakers are designed to deliver high-fidelity sound for your vehicle's audio system. These speakers feature a complex FEA-designed high-efficiency motor, a rigid poly-mica coated cone, and a rear-dampened hybrid silk dome tweeter with an integrated sonic diffuser and radiant collar. This design ensures clear, precise sound reproduction and consistent off-axis frequency response. The speakers are built with an edge-enhanced steel frame for durability and include high-quality mounting hardware for straightforward installation.



Image: AudioControl PNW Series 6x9 inch coaxial speaker with grille, showcasing its design and features.

SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating these speakers. Failure to follow these guidelines may result in injury or damage to the product or vehicle.

- **Professional Installation Recommended:** For optimal performance and safety, professional installation by a qualified car audio technician is highly recommended.
- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any electrical installation to prevent electrical shorts and damage.
- **Proper Wiring:** Ensure all wiring connections are secure and correctly polarized. Incorrect wiring can damage the speakers and your vehicle's audio system.
- **Avoid Water Exposure:** These speakers are not waterproof. Avoid exposing them to water or excessive moisture.
- **Secure Mounting:** Ensure speakers are securely mounted to prevent them from becoming loose during vehicle operation, which could cause injury or damage.
- **Power Handling:** Do not exceed the recommended power handling limits to prevent speaker damage.

WHAT'S IN THE BOX

Your AudioControl PNW Series 6x9" Coaxial Full Range Car Speakers package includes:

- One pair of AudioControl PNW Series 6x9" Coaxial Full Range Car Speakers
- High-quality mounting hardware

SETUP & INSTALLATION

Careful installation is crucial for optimal sound performance and speaker longevity. Refer to your vehicle's service manual for specific panel removal and wiring diagrams.

1. Mounting Considerations

These 6x9 inch speakers are designed to fit many modern factory speaker locations. Verify the available space in your vehicle before installation.

- **Overall Diameter with Grille:** 7.2 x 10.43 inches (183 x 265 mm)
- **Cut Out Diameter:** 5.74 x 8.34 inches (146 x 212 mm)
- **Mounting Depth:** 2.95 inches (75 mm)
- **Height with Grille:** 0.98 inches (25 mm)
- **Motor Diameter with Cover:** 4.6 inches (117 mm)

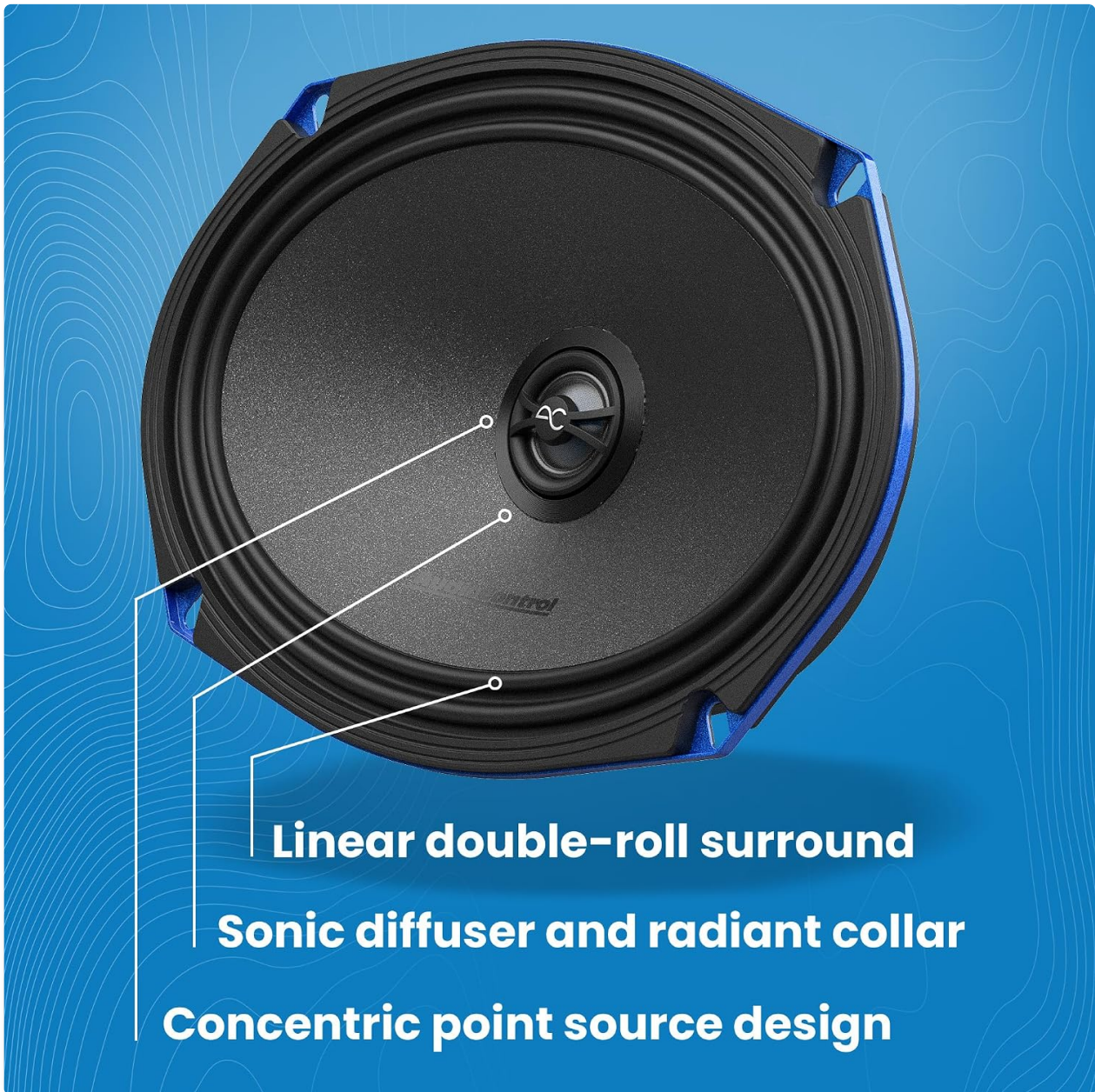


Image: Detailed dimensions for the AudioControl PNW Series 6x9 inch speaker, including cut-out diameter, mounting depth, and motor diameter.

2. Wiring

Connect the speaker wires from your amplifier or head unit to the speaker terminals. Ensure correct polarity (positive to positive, negative to negative) to avoid phase issues that can negatively impact sound quality. The speakers have a 3 Ohm impedance.

3. Component Overview

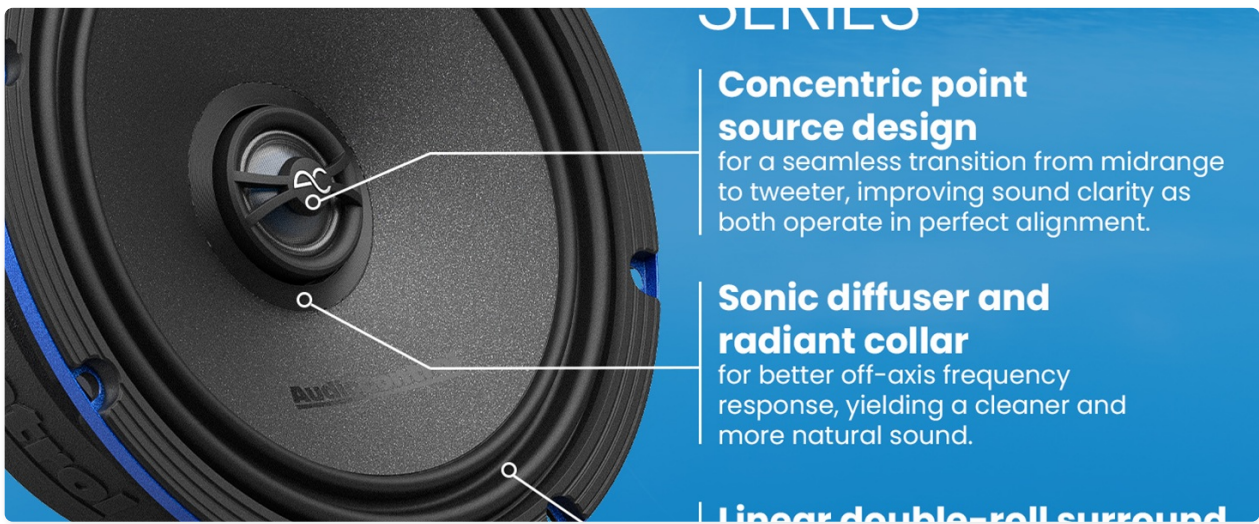
Understanding the speaker's components can aid in installation and troubleshooting.



Image: Exploded view of the AudioControl PNW Series speaker, highlighting its internal components such as the cone, voice coil, and motor structure.

<p>Complex FEA high-efficiency motor is designed to minimize internal losses and maximize efficiency, resulting in improved power handling and enhanced bass response.</p>	<p>Edge-enhanced steel frame for added structural strength, minimizing potential flexing or warping that could lead to sound distortion.</p>	<p>Black anodized voice coil former for superior heat dissipation, allowing for increased power handling and longer durability.</p>	<p>Rigid poly mica-coated cone optimizes sound reproduction by reducing unwanted flexing and vibrations, leading to less distortion at higher volumes.</p>
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Image: Diagram detailing the FEA high-efficiency motor, edge-enhanced steel frame, black anodized voice coil former, and rigid poly mica-coated cone.



Concentric point source design

for a seamless transition from midrange to tweeter, improving sound clarity as both operate in perfect alignment.

Sonic diffuser and radiant collar

for better off-axis frequency response, yielding a cleaner and more natural sound.

Linear double-roll surround

Image: Diagram illustrating the concentric point source design and the sonic diffuser with radiant collar for improved off-axis frequency response.



6.5" COAXIAL SPEAKER

Linear double-roll surround for precision cone movement, improving the overall control and accuracy of the sound reproduction.

Linkwitz-Riley high & low pass crossovers achieve a flat response and maintain phase coherence, ensuring a seamless transition between the frequencies sent to the different speakers.

Image: Diagram highlighting the linear double-roll rubber surround, which contributes to crisp and precise sound reproduction.

4. Installation Video

For a visual guide on the features and installation considerations for the PNW Series speakers, please watch the official product video below.

Your browser does not support the video tag.

Video: Official AudioControl PNW Series Speakers Feature Video. This video provides an overview of the speaker's design, components, and benefits, aiding in understanding the product and its installation.

OPERATING INSTRUCTIONS

Once installed, the AudioControl PNW Series speakers are designed for straightforward operation as part of your car audio system.

- **Power Handling:** These speakers are rated for 75W RMS recommended amplifier power, with a maximum power handling of 100W. Ensure your amplifier's output matches these specifications to prevent damage and achieve optimal sound.
- **Impedance:** The speakers have a 3 Ohm impedance. Verify that your amplifier is stable and compatible with a 3 Ohm load.
- **Sound Adjustment:** Use your head unit or amplifier controls to adjust volume, bass, treble, and balance

to your preference. Allow for a break-in period for new speakers to achieve their full sound potential.

MAINTENANCE

To ensure the longevity and performance of your AudioControl PNW Series speakers, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the speaker grilles and surrounds with a soft, dry cloth. Avoid using harsh chemicals, solvents, or abrasive cleaners, as these can damage the speaker materials.
- **Protection:** Keep the speakers free from dust, dirt, and debris. If your vehicle is often exposed to harsh environments, consider additional protection for the speakers.
- **Inspection:** Periodically check the speaker mounts and connections to ensure they remain secure.

TROUBLESHOOTING

If you encounter issues with your speakers, refer to the following common problems and solutions:

- **No Sound:**
 - Check all wiring connections for looseness or incorrect polarity.
 - Verify that the amplifier or head unit is powered on and functioning correctly.
 - Ensure the audio source is playing and not muted.
- **Distorted Sound:**
 - Reduce the volume level to see if distortion decreases. Overdriving the speakers or amplifier can cause distortion.
 - Check for loose speaker cones or damaged surrounds.
 - Inspect wiring for shorts or interference.
- **Uneven Sound (One Speaker Louder/Softer):**
 - Check the balance and fader settings on your head unit.
 - Inspect wiring connections for the affected speaker.
- **No Bass or Weak Bass:**
 - Ensure speaker polarity is correct. Incorrect polarity can cause bass cancellation.
 - Check bass boost or subwoofer settings on your head unit or amplifier.

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

SPECIFICATIONS

Feature	Specification
Brand	AudioControl
Model Number	PNW-69
Speaker Type	Coaxial Full Range

Feature	Specification
Speaker Size	6x9 inches
Maximum Output Power	100 Watts
Recommended RMS Power	75 Watts
Impedance	3 Ohms
Frequency Response	50 Hz - 20 KHz
Signal-to-Noise Ratio	88 dB
Audio Output Mode	Stereo
Connectivity Technology	Coaxial, Wired
Mounting Type	Screws
Enclosure Material	Steel
Color	Black
Water Resistance Level	Not Water Resistant
Item Dimensions (D x W x H)	2.95"D x 10.43"W x 7.2"H
Item Weight	6.43 Kilograms (for the pair)
Unit Count	2.0 Count (Pair)
UPC	850038647490
Additional Features	Black Anodized Voice Coil, Complex FEA Motor, Edge-Enhanced Steel Frame, Rear-Dampened Hybrid Silk Dome Tweeter, Rigid Poly Mica-Coated Cone

WARRANTY INFORMATION

AudioControl PNW Series speakers come with a manufacturer's warranty. For specific details regarding the warranty period, coverage, and terms, please refer to the warranty card included with your product or visit the official AudioControl website. Keep your proof of purchase for warranty claims.

SUPPORT

If you require further assistance with installation, operation, or troubleshooting that is not covered in this manual, please contact AudioControl customer support. You can typically find contact information on the product packaging, the official AudioControl website, or through your authorized dealer. It is also advisable to consult with a certified car audio installer for complex installations or persistent issues.