

DD Audio VO-XN6x9

DD Audio VO-XN6x9 6x9 300W 4-Ohm 2-Way Coaxial Speakers User Manual

Model: VO-XN6x9

1. INTRODUCTION

Thank you for choosing DD Audio VO-XN6x9 6x9 300W 4-Ohm 2-Way Coaxial Speakers. This manual provides essential information for the proper installation, operation, and maintenance of your new speakers. Please read this manual thoroughly before installation and retain it for future reference.

2. PRODUCT OVERVIEW

2.1 Features

- Neo Magnet Midrange and Tweeter Motors: Provides efficient and powerful sound reproduction.
- Moisture Resistant Polymer Infused Curvilinear Cone: Designed for durability and consistent performance in various environments.
- Rubber Voice Coil Gap Cover: Protects the voice coil from dust and debris.
- Kapton Voice Coil Former and Shorting Ring Equipped Motor: Decreases inductance for improved sound quality.
- CCA Voice Coil Wire: Increases efficiency for optimal power usage.
- Removable Rear Heatsink: Allows for increased mountability in tight spaces.

2.2 Package Contents

The package includes the following items:

- 2 x DD Audio VO-XN6x9 Coaxial Speakers

2.3 Component Identification

The VO-XN6x9 speakers feature a 6x9 inch woofer cone, a 1-inch tweeter, and a robust frame. The rear of the speaker houses the magnet structure and connection terminals.



Figure 1: Front view of two DD Audio VO-XN6x9 6x9 coaxial speakers. This image displays the oval-shaped speaker cones and the central tweeters.



Figure 2: Angled view of two DD Audio VO-XN6x9 6x9 coaxial speakers. This image highlights the side profile of the speakers, revealing the distinctive red heatsink at the rear.



Figure 3: Side view of two DD Audio VO-XN6x9 6x9 coaxial speakers. This perspective clearly shows the overall depth of the speaker, which is important for installation planning.



Figure 4: Rear view of two DD Audio VO-XN6x9 6x9 coaxial speakers. This image displays the magnet structure, the red heatsink, and the speaker terminals for wiring connections.

3. SAFETY INFORMATION

Please observe the following safety precautions during installation and operation:

- Always disconnect the vehicle's battery negative terminal before beginning any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated and secured to prevent damage and electrical hazards.
- Do not install speakers in locations that obstruct vehicle operation or safety features.
- Wear appropriate safety gear, such as eye protection, during installation.
- Avoid prolonged exposure to high volume levels, which can cause hearing damage.

4. SETUP AND INSTALLATION

4.1 Pre-Installation Checks

- Verify that the speaker size (6x9 inches) and mounting depth (3 inches / 77 mm) are compatible with your vehicle's speaker locations.
- Ensure you have all necessary tools: wire strippers, screwdrivers, drill, mounting screws, and speaker wire.

4.2 Mounting Instructions

1. Carefully remove the existing speakers or trim panels from the desired installation location.
2. Test fit the VO-XN6x9 speaker into the opening. The mounting diameter is 8.7 x 5.9 inches (220 x 150 mm).
3. If space is limited, the rear heatsink can be removed to facilitate mounting.
4. Secure the speaker using appropriate screws through the mounting holes. Do not overtighten.

4.3 Wiring Instructions

The VO-XN6x9 speakers have a 4-Ohm impedance. Ensure your amplifier or head unit is stable at this impedance.

1. Connect the positive (+) terminal of the speaker to the positive (+) output of your amplifier/head unit.
2. Connect the negative (-) terminal of the speaker to the negative (-) output of your amplifier/head unit.
3. Ensure all connections are secure and free from short circuits. Use high-quality speaker wire of appropriate gauge.

5. OPERATING INSTRUCTIONS

Once installed, your VO-XN6x9 speakers are ready for use. These speakers are rated for 75 Watts RMS and 300 Watts Peak power handling.

- Start with the volume low and gradually increase it to a comfortable listening level.
- Avoid driving the speakers with excessive power that causes audible distortion, as this can lead to damage.
- Adjust your amplifier's gain settings to match the output of your head unit, ensuring a clean signal to the speakers.

6. MAINTENANCE

The VO-XN6x9 speakers are designed for durability, including a moisture-resistant cone. Regular maintenance is minimal:

- Periodically inspect the speaker grilles and cones for any accumulation of dust or debris.
- Clean the speaker surfaces with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure all mounting screws remain tight and connections are secure.

7. TROUBLESHOOTING

If you experience issues with your speakers, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No sound from speakers	Loose or incorrect wiring; Amplifier off or in protect mode; Head unit issue	Check all speaker and amplifier connections; Verify amplifier power and status; Test head unit with another speaker.

Problem	Possible Cause	Solution
Distorted or unclear sound	Overpowering speakers; Amplifier gain set too high; Damaged speaker cone/voice coil	Reduce volume; Adjust amplifier gain settings; Inspect speaker for physical damage.
Intermittent sound	Loose wiring connection; Faulty speaker wire	Check and secure all wiring connections; Replace speaker wire if damaged.

8. SPECIFICATIONS

Detailed technical specifications for the DD Audio VO-XN6x9 speakers:

Specification	Value
Speaker Size	6 x 9 inches
Tweeter Size	1 inch
Watts RMS	75 Watts
Watts Peak	300 Watts
Impedance	4 Ohm
VCD (Voice Coil Diameter)	1.5 inches
Frequency Response	90 - 20,000 Hz
Fs (Resonant Frequency)	90 Hz
Qms (Mechanical Q)	10.644
Qes (Electrical Q)	0.764
Qts (Total Q)	0.713
Vas (Equivalent Volume)	14.368 liters
dB SPL (Sensitivity)	95 dB
Tweeter dB SPL (Sensitivity)	104 dB
Mounting Diameter	8.7 x 5.9 inches (220 x 150 mm)
Mounting Depth	3 inches (77 mm)
Waterproof	TRUE
Item Weight	8 pounds

9. WARRANTY INFORMATION

The DD Audio VO-XN6x9 speakers come with a Limited Warranty. For specific terms, conditions, and duration of the warranty, please refer to the warranty card included with your product or visit the official DD Audio website. Retain your proof of purchase for warranty claims.

10. SUPPORT

For technical assistance, installation questions, or further support regarding your DD Audio VO-XN6x9 speakers, please contact DD Audio customer service through their official website or the contact information provided with your product documentation. DD Audio Official Website: ddaudio.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question