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Dayton Audio XO2W-3K

Dayton Audio XO2W-3K 2-Way Speaker Crossover Instruction Manual

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Dayton Audio XO2W-3K 2-Way Speaker Crossover. The XO2W-3K is designed with a second-order (12 dB/octave) Linkwitz-Riley alignment, utilizing Dayton Audio metallized polyester film capacitors in both high and low-pass sections for optimal performance.



Image: The Dayton Audio XO2W-3K 2-Way Speaker Crossover board, showcasing its components and layout.

SETUP AND INSTALLATION

The Dayton Audio XO2W-3K crossover is designed for integration into 2-way speaker systems. Proper wiring is

crucial for optimal audio performance and component protection.

Components Overview

The crossover board features input terminals, low-pass output for the woofer, and high-pass output for the tweeter. It is compatible with both 4-ohm and 8-ohm woofers due to a unique design feature in the low-pass section.

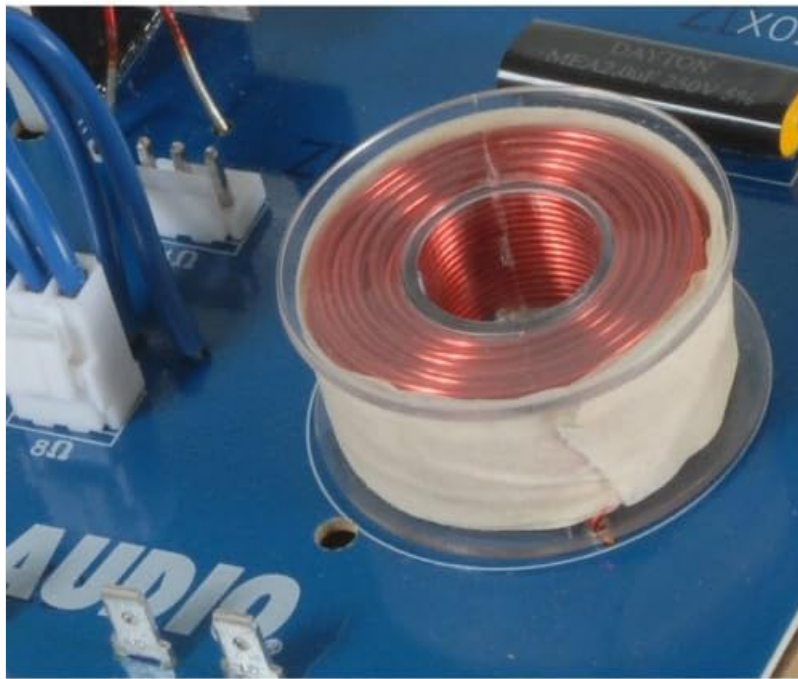


Image: A close-up view of the inductor coil on the Dayton Audio XO2W-3K crossover board, highlighting its construction.

Wiring Instructions

1. Identify the input terminals on the crossover board, typically marked 'IN +' and 'IN -'. Connect these to the positive and negative outputs of your amplifier.
2. Locate the low-pass output terminals, marked 'W +' and 'W -'. Connect these to the positive and negative terminals of your woofer.
3. Locate the high-pass output terminals, marked 'T +' and 'T -'. Connect these to the positive and negative terminals of your tweeter.
4. Ensure all connections are secure to prevent signal loss or short circuits. The 18-gauge inductors are designed to minimize DC resistance.

All components on the board are glued or fastened to eliminate buzzing and vibrations, ensuring stable performance.

OPERATION

As a passive component, the Dayton Audio XO2W-3K crossover requires no direct user operation. Once correctly installed, it automatically divides the audio signal into appropriate frequency ranges for your woofer and tweeter.

Ensure your amplifier's output power does not exceed the maximum recommended input for your speakers and the crossover to prevent damage. The crossover is rated for up to 300 Watts maximum output power.

MAINTENANCE

The Dayton Audio XO2W-3K crossover is designed for long-term reliability and requires minimal maintenance.

- Keep the crossover board free from dust and debris. Use a soft, dry cloth for cleaning.
 - Avoid exposing the unit to moisture or extreme temperatures.
 - Periodically check all wiring connections to ensure they remain secure.
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TROUBLESHOOTING

If you experience issues with your speaker system after installing the crossover, consider the following:

- **No Sound from a Speaker:** Check all wiring connections to the affected speaker and the crossover. Ensure correct polarity (+ to + and - to -).
 - **Distorted Sound:** Verify that the amplifier's output is not overdriving the speakers or the crossover. Check for loose connections or damaged speaker drivers.
 - **Incorrect Frequency Separation:** Double-check that the crossover is correctly matched to your speaker drivers' specifications. The XO2W-3K has a 3,000 Hz crossover point.
 - **Buzzing or Vibrations:** Ensure the crossover board is securely mounted and that no loose components are present. The high-quality blue PC board with a back plate is designed for added rigidity.
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SPECIFICATIONS

- **Model:** XO2W-3K
 - **Crossover Type:** 2-Way
 - **Crossover Frequency:** 3,000 Hz
 - **Slope:** 12 dB/octave (Linkwitz-Riley alignment)
 - **Woofers Impedance Compatibility:** 4 or 8 Ohm
 - **Inductors:** 18 gauge
 - **Capacitors:** Metallized polyester film
 - **Maximum Output Power:** 300 Watts
 - **Board Material:** High quality blue PC board with back plate
 - **Dimensions:** 7.4 x 4.72 x 1.89 inches (Package Dimensions)
 - **Item Weight:** 1 pound
 - **Included Components:** 2 speaker units (crossover boards)
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WARRANTY INFORMATION

The Dayton Audio XO2W-3K 2-Way Speaker Crossover comes with a Full Warranty. For specific terms and conditions, please refer to the official Dayton Audio warranty policy or contact customer support.

CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your Dayton Audio XO2W-3K crossover, please visit the official Dayton Audio website or contact their customer service department.

Brand: Dayton Audio

Manufacturer: Dayton Audio