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Dayton Audio DC130B-4

Dayton Audio DC130B-4 5-1/4" Classic Woofer Speaker Instruction Manual

Introduction

This manual provides detailed instructions for the proper installation, operation, and maintenance of your Dayton Audio DC130B-4 5-1/4" Classic Woofer Speaker. Please read this manual thoroughly before use to ensure optimal performance and longevity of your speaker.

Product Overview

The Dayton Audio DC130B-4 is a 5-1/4 inch classic series woofer designed for various audio applications. It features a sturdy round steel frame, a coated paper cone for smooth response, and an aluminum voice coil former with a vented pole piece for enhanced power handling. This 4-ohm impedance driver is suitable for custom speaker builds and replacements.



Figure 1: Front view of the Dayton Audio DC130B-4 woofer, showing the black coated paper cone and surround.



Figure 2: Rear view of the Dayton Audio DC130B-4 woofer, displaying the magnet structure, model label, and speaker terminals.

Setup and Installation

Proper installation is crucial for the performance of your woofer. Ensure all connections are secure and correct.

Unpacking and Inspection

Carefully remove the woofer from its packaging. Inspect the unit for any signs of damage during transit. If damage is found, contact your retailer immediately.

Mounting

The DC130B-4 features a sturdy, round steel frame designed for easy countersinking. Ensure the mounting surface is flat and rigid to prevent vibrations. Use appropriate screws to secure the woofer firmly into its enclosure. The woofer has a diameter of 5.25 inches, so ensure your enclosure cutout matches this dimension.

Wiring Connections

The woofer has a 4-ohm impedance. Connect the positive (+) terminal of the woofer to the positive output of your amplifier and the negative (-) terminal to the negative output. Ensure polarity is correct for all speakers in your system to maintain proper phase alignment.



Figure 3: Example of testing leads connected to speaker terminals, illustrating proper connection points.

Included Components

- 1 x Dayton Audio DC130B-4 Woofer Speaker

Operation

Once installed, the Dayton Audio DC130B-4 woofer is ready for operation. It is designed to deliver clean and articulate bass response.

Power Handling

This woofer has a maximum output power of 25 Watts. Ensure your amplifier's output power does not exceed this rating to prevent damage to the speaker. Overdriving the speaker can lead to distortion and premature failure.

Sound Characteristics

The coated paper cone provides a smooth frequency response and reduces cone breakup, contributing to clear audio reproduction. The aluminum voice coil former and vented pole piece enhance power handling and reduce compression, while the large diameter flat spider and good Xmax (maximum excursion) contribute to clean bass output.

Connectivity

The woofer connects via wired connections, typically using 3.5mm auxiliary cables from your amplifier or audio source. It supports a 2.1 surround sound channel configuration when integrated into a compatible system.

Control

The woofer itself is a passive component and does not have direct controls. Control of volume and audio settings will be managed by your connected amplifier or audio source, which may feature touch controls.

Maintenance

To ensure the longevity and optimal performance of your Dayton Audio DC130B-4 woofer, follow these simple maintenance guidelines.

Cleaning

Use a soft, dry cloth to gently wipe the cone and frame of the speaker. Avoid using harsh chemicals or abrasive materials, as these can damage the coated paper cone and other components. Do not apply excessive pressure to the cone.

Environmental Conditions

The DC130B-4 woofer is **not water resistant**. Avoid exposing the speaker to moisture, extreme temperatures, or direct sunlight for extended periods. Store and operate the speaker in a dry, temperate environment.

Inspection

Periodically inspect the speaker for any signs of wear or damage, particularly the cone and surround. Ensure all mounting screws remain tight.

Troubleshooting

If you encounter issues with your Dayton Audio DC130B-4 woofer, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
No sound or low volume	Incorrect wiring, loose connections, amplifier issues, incorrect source settings.	Check all wiring for correct polarity and secure connections. Verify amplifier is powered on and functioning. Confirm audio source is active and volume is up.
Distorted sound	Overdriving the speaker, damaged cone/voice coil, incorrect impedance match, poor signal quality.	Reduce amplifier volume. Inspect the speaker cone for visible damage. Ensure amplifier impedance matches the 4-ohm woofer. Check audio cables for damage.
Woofer does not fit enclosure	Incorrect measurement of speaker or enclosure cutout.	Carefully re-measure the woofer's mounting diameter (5.25 inches) and your enclosure cutout. Ensure compatibility before attempting installation.
Intermittent sound	Loose connections, faulty cable, amplifier issues.	Check and secure all wiring connections. Test with a different audio cable. Verify amplifier stability.

If these troubleshooting steps do not resolve the issue, please contact Dayton Audio customer support.

Specifications

Detailed technical specifications for the Dayton Audio DC130B-4 5-1/4" Classic Woofer Speaker.

Feature	Specification
Model Name	DC130B-4
Speaker Type	Woofer
Woofer Diameter	5.25 Inches
Impedance	4 Ohms
Speaker Maximum Output Power	25 Watts
Material	Coated paper
Special Feature	Aluminum VC former and vented pole piece
Connectivity Technology	Wired (3.5mm auxiliary)
Audio Output Mode	Surround
Control Method	Touch (via connected device)
Product Dimensions	5 x 5 x 3 inches
Item Weight	2.05 pounds
Water Resistance Level	Not Water Resistant

Feature	Specification
Compatible Devices	Desktop, Laptop, MP3 Player, Projector, Smartphone, Tablet, Television
UPC	844632093982
Item Model Number	PS-SWF072

Warranty Information

The Dayton Audio DC130B-4 5-1/4" Classic Woofer Speaker comes with a Limited Warranty. For specific terms and conditions, please refer to the warranty documentation included with your purchase or visit the official Dayton Audio website.

Customer Support

For further assistance, technical support, or warranty claims, please contact Dayton Audio customer service. You can find contact information and additional resources by visiting the official Dayton Audio store page:

Visit the Dayton Audio Store

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