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Dayton Audio RSS265HF-4

Dayton Audio RSS265HF-4 10" Reference HF Subwoofer User Manual

Model: RSS265HF-4

Introduction

The Dayton Audio RSS265HF-4 10" Reference HF Subwoofer is engineered to deliver high-definition, low-distortion audio performance. Designed for versatility, it provides excellent results in compact single-driver subwoofer systems and multi-subwoofer configurations. This manual provides essential information for the proper installation, operation, and maintenance of your subwoofer to ensure optimal performance and longevity.



Front view of the Dayton Audio RSS265HF-4 10" Reference HF Subwoofer, showcasing its black anodized aluminum cone and durable surround.

Key Features

- **Extensively Vented Motor:** Designed to eliminate compression and allow for quiet excursion, ensuring clean bass reproduction.
- **Lightweight Black Anodized Aluminum Cone:** Provides rigidity and lower moving mass for accurate and responsive bass.
- **Versatile Enclosure Compatibility:** Suitable for both sealed and vented enclosure designs.
- **Triple Shorting Ring Motor:** Engineered for ultra-low distortion, delivering precise and faithful audio reproduction.
- **2-Layer Voice Coil:** Reduces back electromotive force (EMF) for improved linearity and power handling.

Setup and Installation

Proper installation is crucial for the performance and longevity of your subwoofer. Ensure all connections are secure and correctly polarized.

Enclosure Design

The RSS265HF-4 is designed to perform optimally in both sealed and vented (ported) enclosures. The choice of enclosure type will depend on your desired bass response and available space. Consult speaker design software or resources for recommended enclosure volumes and port tuning frequencies for this specific driver.

Wiring Connections

This subwoofer features a 4 Ohm impedance. Connect the subwoofer to an appropriate amplifier or subwoofer plate amplifier using high-quality speaker wire. Ensure correct polarity: connect the positive (+) terminal of the subwoofer to the positive (+) output of the amplifier, and the negative (-) terminal of the subwoofer to the negative (-) output of the amplifier.



Rear view of the RSS265HF-4 subwoofer, highlighting the gold-plated push terminals for secure wire connections. Note the positive (red) and negative (black) indicators.



Bottom view of the RSS265HF-4, illustrating the robust motor structure and the location of the speaker terminals for wiring.

Mounting

The subwoofer is designed for flush mounting. Ensure the mounting surface is rigid and provides an airtight seal around the driver to prevent air leaks that can degrade performance. Use appropriate screws and ensure they are tightened securely but not overtightened.

Operating Instructions

Once installed, the RSS265HF-4 subwoofer requires minimal operational adjustments, as its performance is primarily determined by the enclosure design and the amplifier's settings.

Amplifier Power

Ensure your amplifier can provide sufficient power (up to 700 Watts maximum output) to drive the subwoofer without

clipping or distortion. Operating the subwoofer with an underpowered or overdriven amplifier can lead to damage.

Crossover Settings

If your amplifier or receiver has adjustable crossover settings, set the low-pass filter to integrate smoothly with your main speakers. A typical starting point is between 80 Hz and 120 Hz, but this may vary based on your system and room acoustics.

Volume Level

Adjust the subwoofer's volume level to blend seamlessly with your main speakers, creating a balanced soundstage. Avoid setting the volume too high, which can result in boomy or unnatural bass.

Maintenance

The Dayton Audio RSS265HF-4 subwoofer is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to gently wipe the cone and surround. Avoid using harsh chemicals or abrasive cleaners, which can damage the materials.
- **Inspection:** Periodically inspect the speaker cone, surround, and dust cap for any signs of damage or wear. Check the wiring connections to ensure they remain secure.
- **Environment:** Keep the subwoofer in a stable environment, away from extreme temperatures, direct sunlight, and excessive moisture.

Troubleshooting

If you experience issues with your Dayton Audio RSS265HF-4 subwoofer, refer to the following common troubleshooting steps:

- **No Sound:**
  - Verify that the amplifier is powered on and functioning correctly.
  - Check all speaker wire connections at both the subwoofer and the amplifier for proper polarity and secure contact.
  - Ensure the audio source is active and sending a signal to the amplifier.
- **Distorted Sound:**
  - Reduce the volume level on your amplifier or receiver.
  - Check if the amplifier is being overdriven (clipping).
  - Inspect the subwoofer cone and surround for any physical damage.
  - Ensure the enclosure is airtight and free of rattles.
- **Weak or Muffled Bass:**
  - Confirm correct wiring polarity. Incorrect polarity can cause bass cancellation.
  - Review your amplifier's crossover settings to ensure the subwoofer is receiving the full low-frequency signal.
  - Verify the enclosure volume and tuning are appropriate for the driver.

Specifications

Specification	Value
Model Name	RSS265HF-4
Speaker Type	Subwoofer
Subwoofer Diameter	10 Inches
Impedance	4 Ohm
Speaker Maximum Output Power	700 Watts
Connectivity Technology	Wired
Material	Aluminum
Product Dimensions (L x W x H)	10.63 x 5.51 x 5.51 inches
Item Weight	16.76 pounds
Manufacturer	Dayton Audio
Included Components	1 x Speaker

Warranty Information

The Dayton Audio RSS265HF-4 10" Reference HF Subwoofer comes with a Full Warranty. For specific terms and conditions, please refer to the warranty documentation included with your purchase or contact Dayton Audio customer support.

Customer Support

For technical assistance, replacement parts, or further inquiries regarding your Dayton Audio RSS265HF-4 subwoofer, please contact Dayton Audio customer support. Visit the official Dayton Audio website for contact information and additional resources.

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