

Focal SUB 25A4

Focal SUB 25A4 10" 400W 4-Ohm Subwoofer User Manual

Model: SUB 25A4

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1. INTRODUCTION

Thank you for choosing the Focal SUB 25A4 10" 400W 4-Ohm Subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your new subwoofer. Please read this manual thoroughly before attempting to install or use the product to ensure optimal performance and safety.

The Focal SUB 25A4 is designed to deliver powerful and precise bass reproduction, enhancing your car audio system's overall sound quality. It features a durable construction with a fiberglass structure cone and a robust motor assembly for reliable performance.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the product and vehicle:

- **Professional Installation Recommended:** Installation of car audio components can be complex. If you are unsure about any aspect of the installation, seek assistance from a qualified professional installer.
- **Disconnect Battery:** Before beginning any wiring or installation, disconnect the vehicle's negative battery terminal to prevent electrical shorts and damage.
- **Proper Wiring:** Ensure all wiring connections are secure and correctly polarized. Incorrect wiring can damage the subwoofer, amplifier, or vehicle's electrical system.
- **Ventilation:** Ensure the subwoofer enclosure has adequate ventilation to prevent overheating, especially if used with a high-power amplifier.
- **Avoid Obstruction:** Do not install the subwoofer in a location that obstructs the driver's view or interferes with the safe operation of the vehicle.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Always listen at moderate levels.
- **Secure Mounting:** Ensure the subwoofer and its enclosure are securely mounted to prevent movement during vehicle operation, which could cause injury or damage.

3. SETUP & INSTALLATION

Proper installation is crucial for the performance and longevity of your subwoofer. Follow these guidelines for a successful setup.

3.1. Enclosure Requirements

The Focal SUB 25A4 is designed for use in sealed or ported enclosures. Refer to the specifications for recommended enclosure volumes:

- **Sealed Box Volume:** 0.52 - 0.88 cubic feet
- **Ported Box Volume:** 0.71 - 1.23 cubic feet

Ensure the enclosure is robust, airtight (for sealed), and properly braced to prevent rattles and maximize sound quality.

3.2. Mounting Dimensions

Before cutting, verify the dimensions to ensure a proper fit:

- **Subwoofer Diameter:** 10 inches
- **Top-Mount Depth:** 5 inches
- **Cutout Diameter:** Approximately 9.06 inches

Always measure your specific subwoofer and enclosure before making any cuts.

3.3. Wiring Connections

The SUB 25A4 is a 4-ohm subwoofer. Ensure your amplifier is stable at a 4-ohm load and provides adequate power within the subwoofer's recommended range.

- **Power Range:** 50-200 watts RMS (400 watts peak)
- **Impedance:** 4-Ohm

Connect the positive (+) terminal of the subwoofer to the positive (+) output of your amplifier and the negative (-) terminal of the subwoofer to the negative (-) output of your amplifier. Use appropriate gauge speaker wire for the power levels involved.



Figure 1: Focal SUB 25A4 Subwoofer. This image displays the 10-inch subwoofer from an angled perspective, highlighting its black cone with a checkered pattern, the durable rubber surround, and the gold-plated speaker terminals (red for positive, black for negative) at the base. The "FOCAL" branding is visible on the side of the basket.

4. OPERATION

Once installed, proper tuning of your amplifier and head unit settings will optimize the subwoofer's performance.

- **Gain Setting:** Set the amplifier gain correctly to match the output voltage of your head unit. Avoid setting the gain too high, as this can lead to distortion and potential damage to the subwoofer.
- **Low-Pass Filter (LPF):** Use the low-pass filter on your amplifier or head unit to send only low frequencies to the subwoofer. A common starting point is 80-100 Hz, but this can be adjusted based on your system and listening preferences.
- **Subsonic Filter:** If your amplifier has a subsonic filter, enable it and set it slightly below the tuning frequency of your ported enclosure (if applicable) to protect the subwoofer from playing frequencies too low for its design.
- **Phase Control:** Experiment with the phase switch (0° or 180°) on your amplifier to find the setting that provides the most cohesive bass response with your front speakers.

Listen to various types of music to fine-tune your settings for balanced and impactful bass.

5. MAINTENANCE

The Focal SUB 25A4 is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to gently wipe down the subwoofer cone and surround. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically inspect the wiring connections to ensure they remain secure and free from corrosion. Check the subwoofer surround for any signs of cracking or damage.
- **Environmental Protection:** Protect the subwoofer from extreme temperatures, direct sunlight, and excessive moisture.

6. TROUBLESHOOTING

If you experience issues with your subwoofer, consult the following common problems and solutions before seeking professional assistance.

6.1. No Sound from Subwoofer

- **Check Power:** Ensure the amplifier powering the subwoofer is receiving power and is turned on. Check fuses and power connections.
- **Check Signal:** Verify that the RCA cables are securely connected from the head unit to the amplifier. Test with another audio source if possible.
- **Check Speaker Wires:** Ensure speaker wires are correctly connected to both the subwoofer and the amplifier, with no loose strands causing shorts.
- **Amplifier Settings:** Confirm the amplifier's gain is not set to minimum, and the low-pass filter is enabled and set appropriately.

6.2. Distorted or Unclear Bass

- **Gain Too High:** Reduce the amplifier's gain setting. Distortion often occurs when the amplifier is overdriven.
- **Clipping:** Ensure your amplifier is not clipping. If the amplifier's protection light is flashing or solid, it may indicate clipping.
- **Enclosure Issues:** Check the subwoofer enclosure for air leaks, loose panels, or inadequate bracing.
- **Incorrect LPF:** Adjust the low-pass filter frequency. If it's set too high, the subwoofer may be playing frequencies it's not designed for.
- **Phase Mismatch:** Experiment with the phase switch (0° or 180°) on your amplifier.

6.3. Subwoofer Overheating

- **Impedance Mismatch:** Ensure the subwoofer's impedance (4-ohm) matches the amplifier's stable load.
- **Underpowering/Overpowering:** Ensure the amplifier's RMS power output is within the subwoofer's recommended range (50-200W RMS).
- **Ventilation:** Ensure the amplifier and subwoofer have adequate airflow.

7. SPECIFICATIONS

Detailed technical specifications for the Focal SUB 25A4 Subwoofer:

Feature	Specification
Model Name	SUB 25A4
Speaker Type	Subwoofer

Feature	Specification
Subwoofer Diameter	10 Inches
RMS Power Handling	50-200 Watts
Peak Power Handling	400 Watts
Nominal Impedance	4-Ohm
Frequency Response	36-500 Hz
Sensitivity	85.4 dB (at 2.83 volts)
Top-Mount Depth	5 Inches
Cutout Diameter	9.06 Inches
Recommended Sealed Box Volume	0.52-0.88 cubic feet
Recommended Ported Box Volume	0.71-1.23 cubic feet
Cone Material	Dual Fiberglass Structure
Surround Material	Butyl Rubber
Magnet Size	4.75 Inches
Product Dimensions (Overall)	13"D x 12"W x 12"H
Item Weight	10 Pounds
Mounting Type	Top Mount
Audio Driver Type	Dynamic Driver
Specific Uses	Car Audio, Home Theater
Manufacturer	Focal
ASIN	B0BTV454XV
Date First Available	February 4, 2023
Warranty Type	Limited

8. WARRANTY & SUPPORT

8.1. Warranty Information

This product comes with a **Limited Warranty**. Please refer to the warranty card included with your purchase or contact Focal customer support for detailed terms and conditions regarding warranty coverage, duration, and claims procedures. Keep your proof of purchase for warranty validation.

8.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Focal customer support. Visit the official Focal website for the most up-to-date contact information, including phone numbers, email

addresses, and online support resources.
Note: Do not attempt to repair the subwoofer yourself, as this may void the warranty.

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