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Focal 165AS

Focal 165AS 6.5" 2-Way Component Kit User Manual

Model: 165AS

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Focal 165AS 6.5" 2-Way Component Kit. Please read these instructions carefully before proceeding with installation to ensure optimal performance and longevity of your audio system. This component kit is designed to deliver high-fidelity sound in automotive environments.

2. PRODUCT OVERVIEW

2.1. Components Included

Your Focal 165AS 2-Way Component Kit includes the following:

- Two (2) 6.5-inch Woofers
- Two (2) TN44 Tweeters
- Two (2) Passive Crossovers

2.2. Key Features

- TN44 Tweeter for clear high-frequency reproduction.
- Woofers with 20% Fiberglass filled ABS chassis for durability.
- Maximum Power Handling: 120W.
- Nominal Power Handling: 60W.
- High Sensitivity: 92 dB.

2.3. Product Diagram

Below is a diagram illustrating the main components of the Focal 165AS kit and their key characteristics.

ACCESS 165 AS3

- [DFS®] Dual Fiberglass Structure cone
High resistance (Power, climatic conditions, humidity...)
- Grilles new design
Profiled

- Butyl surround
Longlife

- Adjustable tweeter level
(3 positions : -3 / 0 / +3dB/oct)
- Soundstage positionning
- Air core inductors
- **Insensitive to parasite interferences**



This diagram highlights the DFS Dual Fiberglass Structure cone, adjustable tweeter level, ABS basket, 85mm magnet, and aluminum inverted dome tweeter.

3. SETUP AND INSTALLATION

Professional installation is highly recommended for optimal performance and to prevent damage to your vehicle's electrical system or the speakers. Ensure the vehicle's battery is disconnected before beginning any installation work.

3.1. Mounting the Woofers

The 6.5-inch woofers are designed for car mount applications. Ensure the mounting location provides adequate depth and clearance. Use appropriate mounting hardware to secure the woofers firmly to prevent vibrations and ensure sound quality.



The 6.5-inch woofer features a durable cone and robust terminal connections.

3.2. Tweeter Installation

The TN44 tweeters should be mounted in a location that provides optimal soundstage positioning, typically at ear level or slightly above. Consider the vehicle's interior acoustics for best results. The tweeters are designed for accurate treble reproduction.

3.3. Crossover Connection

The passive crossovers are crucial for directing the correct frequency ranges to the woofers and tweeters. Connect the amplifier output to the input terminals of the crossover. Then, connect the woofer and tweeter to their respective output terminals on the crossover. Pay close attention to polarity (+/-) to ensure proper phase alignment.



The complete Focal 165AS kit, including the woofer, tweeter, and passive crossover, ready for installation.

3.4. Wiring Considerations

Use high-quality speaker wire of appropriate gauge for your amplifier's power output. Ensure all connections are secure and insulated to prevent short circuits. Route wires away from moving parts and heat sources within the vehicle.

4. OPERATION

Once installed, your Focal 165AS component kit will operate as part of your car's audio system. Ensure your amplifier is properly configured and tuned to match the speakers' power handling capabilities (60W Nominal, 120W Max). Avoid overdriving the speakers, which can lead to distortion and potential damage. Adjust your head unit's settings and amplifier gains for a balanced and clear stereo audio output.

5. MAINTENANCE

The Focal 165AS component kit requires minimal maintenance. Keep the speaker cones and grilles free from dust and debris. Use a soft, dry cloth for cleaning. Avoid using harsh chemicals or abrasive materials, which can damage the speaker components. Periodically check all wiring connections to ensure they remain secure.

6. TROUBLESHOOTING

If you experience issues with your Focal 165AS component kit, refer to the table below for common problems and their potential solutions.

Problem	Possible Cause	Solution
No Sound from Speakers	Loose or incorrect wiring; Amplifier off or faulty; Head unit issue.	Check all speaker and amplifier connections; Verify amplifier power; Test head unit functionality.
Distorted Sound	Amplifier gain too high; Speaker overdriven; Poor quality audio source.	Reduce amplifier gain; Lower volume; Use a higher quality audio source.
One Speaker Not Working	Loose connection to that speaker/crossover; Damaged speaker wire; Faulty speaker.	Check specific speaker/crossover connections; Inspect speaker wire for damage; Test speaker with another known good source if possible.
Lack of Bass	Incorrect crossover setting; Phase issue; Insufficient amplifier power.	Verify crossover connections and settings; Check speaker polarity; Ensure amplifier provides adequate power.

7. TECHNICAL SPECIFICATIONS

Detailed specifications for the Focal 165AS 6.5" 2-Way Component Kit:

Specification	Value
Model Name	165AS
Speaker Type	Component
Recommended Use	Car Audio
Woofer Diameter	6.5 Inches

Specification	Value
Tweeter Type	TN44
Nominal Power Handling	60 Watts RMS
Maximum Power Handling	120 Watts
Sensitivity (2.83V/1m)	92 dB
Surround Sound Channel Configuration	2.0 (Stereo)
Included Components	2 Speakers, 1 Crossover
Mounting Type	Car Mount
Manufacturer	Focal

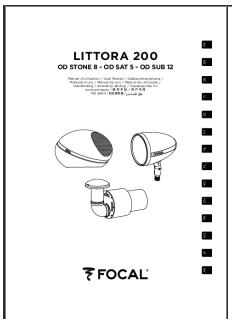
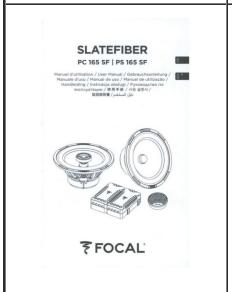
8. WARRANTY INFORMATION

The Focal 165AS 6.5" 2-Way Component Kit comes with a Limited Warranty. For specific details regarding the terms, conditions, and duration of your warranty, please refer to the official Focal website or the warranty card included with your product. Retain your proof of purchase for any warranty claims.

9. SUPPORT

For further assistance, technical support, or service inquiries regarding your Focal 165AS component kit, please visit the official Focal website or contact their customer support directly. You can find contact information and additional resources on their website.

Related Documents - 165AS

	<p>Focal Littora 200 Outdoor Speakers: User Manual & Specifications</p> <p>Discover the Focal Littora 200 series of outdoor speakers (OD Stone 8, OD Sat 5, OD Sub 12). This user manual provides essential guidance on installation, connections, specifications, and safety for high-fidelity outdoor audio experiences, featuring IP55 durability.</p>
	<p>Focal PC 165 SF PS 165 SF User Manual and Specifications</p> <p>User manual and technical specifications for Focal PC 165 SF and PS 165 SF car speakers, featuring Slatefiber cones and high-efficiency design.</p>

	<p><u>Focal T3Y Series Car Speakers: User Manual, Specifications, and Installation Guide</u></p> <p>Comprehensive user manual, technical specifications, and installation guide for the Focal T3Y series car speakers, including IW T3Y 200, ICC T3Y 100, IS T3Y 100, and IC T3Y 100. Features safety instructions, product details, and compatibility information.</p>
	<p><u>Focal FLAX EVO™ Car Speaker Systems: User Manual & Specifications</u></p> <p>Explore the Focal FLAX EVO™ series car audio speakers with this comprehensive guide. It includes user manuals, installation instructions, safety guidelines, and detailed technical specifications for models like PS 165 FE, PS 165 FSE, and more. Learn about Focal's 'Listen Beyond' philosophy and product features.</p>
	<p><u>Focal Kanta Series Loudspeakers User Manual</u></p> <p>User manual for Focal Kanta series loudspeakers, providing essential information on safety, connections, positioning, usage, maintenance, and warranty for optimal high-fidelity audio performance.</p>
	<p><u>Focal K2 Power Series Car Audio Speakers and Subwoofers: Quick Start & User Manual</u></p> <p>Quick start guide and user manual for Focal K2 Power car audio speakers and subwoofers. Includes installation, wiring, adjustments, safety, and technical specifications for models like ES 100 KE, ES 165 KE, SUB 25 KXE, and more.</p>