

Manuals.plus /

› Focal /

› Focal RSE-165 Auditor Series 6.5" 2-Way Component Speakers User Manual

Focal RSE-165

Focal RSE-165 Auditor Series 6.5" 2-Way Component Speakers

Model: RSE-165

INTRODUCTION

The Focal RSE-165 Auditor Series 6.5" 2-Way Component Speakers are designed to deliver high-quality audio performance in your vehicle. This system includes 6.5-inch woofers, tweeters, and external crossover filters, providing a balanced and dynamic sound experience. This manual provides essential information for the proper installation, operation, and maintenance of your new speaker system.

WHAT'S IN THE BOX

Your Focal RSE-165 package should contain the following components:

- Two (2) 6.5-inch Woofers (RSE-165)
- Two (2) Tweeters
- Two (2) External Crossover Filters
- Two (2) Speaker Grilles
- Mounting Hardware

KEY FEATURES

- **Silk/Aluminum Tweeter:** Provides clear and detailed high-frequency sound reproduction.
- **Polypropylene Cone:** Ensures robust and responsive mid-bass performance.
- **Separated Pre-wired Crossover (12dB/oct):** Optimizes sound distribution between the woofer and tweeter for enhanced clarity.

- **Max Power 100W:** Capable of handling up to 100 Watts of peak power.
- **Nominal Power 50W RMS:** Designed for continuous power handling of 50 Watts RMS.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. It is recommended that installation be performed by a qualified professional. Always disconnect the vehicle's battery before beginning any electrical work.

Woofer Installation



Image: A single Focal RSE-165 6.5-inch woofer, showing the polypropylene cone and the central phase plug. This is the main speaker driver for mid-range and bass frequencies.

Mount the 6.5-inch woofers securely in the designated speaker locations in your vehicle's doors or panels. Ensure a tight fit to prevent vibrations and rattles. Use the provided mounting hardware.

Tweeter Installation



Image: A Focal RSE-165 tweeter, featuring a black housing with a silver-colored grille over the silk/aluminum dome. This component reproduces high-frequency sounds.

Install the tweeters in a location that provides optimal sound imaging, typically at ear level or slightly above. Various mounting options (flush, surface, or angle) may be available depending on your vehicle and the tweeter's design. Connect the tweeter wires to the crossover.

Crossover Connection

The external crossover filters are essential for directing the correct frequency ranges to the woofers and tweeters. Connect the input terminals of the crossover to your amplifier or head unit's speaker outputs. Then, connect the woofer output from the crossover to the 6.5-inch woofer and the tweeter output to the tweeter. Ensure correct polarity (+ to + and - to -) for all connections.

Speaker Grilles



Image: A circular black metal mesh speaker grille with the 'FOCAL' logo at the bottom. This grille protects the woofer from physical damage.

Once the woofers are installed, attach the protective speaker grilles. These grilles protect the speaker cones from accidental damage.

Magnet Boot Cover



Image: A black rubber magnet boot cover, designed to fit over the magnet structure of a speaker. This cover provides protection and a clean finish.

The protective magnet boot cover should be placed over the woofer's magnet structure. This provides additional protection and a clean aesthetic finish.

OPERATING YOUR SPEAKERS

After installation, ensure all connections are secure before powering on your audio system. Start with the volume at a low level and gradually increase it to your desired listening level. Adjust the audio settings (bass, treble, balance, fader) on your head unit or amplifier to fine-tune the sound to your preference. Avoid excessive volume levels for prolonged periods to prevent speaker damage and hearing loss.

MAINTENANCE

Your Focal RSE-165 speakers require minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Gently wipe the speaker grilles and surrounds with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners, as these can damage the speaker components.
- **Inspection:** Periodically check all wiring connections to ensure they remain secure. Loose connections can lead to poor sound quality or intermittent operation.
- **Environment:** While designed for automotive use, avoid exposing the speakers to extreme moisture or direct sunlight for extended periods, as this can degrade materials over time.

TROUBLESHOOTING

If you experience issues with your Focal RSE-165 speakers, refer to the following common troubleshooting steps:

- **No Sound:**

- Check all wiring connections from the head unit/amplifier to the crossover, and from the crossover to the speakers. Ensure no wires are loose or disconnected.
- Verify the amplifier or head unit is powered on and functioning correctly.
- Check the audio source and volume settings.

- **Distorted Sound:**

- Reduce the volume level. Distortion often occurs when the amplifier or speakers are overdriven.
- Check for loose speaker cones or damaged surrounds.
- Ensure the amplifier gain settings are not set too high.

- **One Speaker Not Working:**

- Inspect the wiring for the non-working speaker, including connections at the speaker, crossover, and amplifier.
- Swap the non-working speaker with a known good one (if possible) to determine if the issue is with the speaker or the wiring/source.

- **Lack of Bass or Treble:**

- Check the polarity of the speaker connections. Incorrect polarity can cause phase cancellation, leading to reduced bass response.
- Adjust the bass and treble settings on your head unit or amplifier.
- Ensure the crossover is correctly wired and functioning.

If these steps do not resolve the issue, contact Focal customer support or a professional car audio technician.

SPECIFICATIONS

Feature	Specification
Brand	Focal
Model Number	RSE-165
Speaker Type	Component
Woofer Diameter	6.5 Inches
Tweeter Diameter	1 Inches
Nominal Power (RMS)	50 Watts
Maximum Power	100 Watts
Impedance	4 Ohms
Frequency Response	Not fully specified (21 KHz listed as upper limit)
Sensitivity (Signal-to-Noise Ratio)	70 dB
Enclosure Material	Plastic
Item Weight	2.7 Kilograms
Connectivity Technology	Coaxial (Note: This is a component system, not coaxial speakers)
Number of Audio Channels	2.0

WARRANTY INFORMATION

The Focal RSE-165 Auditor Series speakers are covered by a **2-Year Manufacturer Warranty**. This warranty typically covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or visit the official Focal website.

SUPPORT

For further assistance, technical support, or warranty inquiries, please contact Focal customer service through their official website or the contact information provided in your product packaging. You may also consult authorized Focal dealers for professional advice and service.