

## Focal 165 V20

# Focal 165 V20 6.5" 70W RMS Polyglass Series 2-Way Component Speakers System User Manual

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Focal 165 V20 6.5" 70W RMS Polyglass Series 2-Way Component Speakers System. Please read this manual thoroughly before attempting installation or use to ensure optimal performance and longevity of your product.

## SAFETY INSTRUCTIONS

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Observe the following safety precautions to prevent damage to the speakers or injury to yourself:

- **Professional Installation Recommended:** For best results and to avoid damage, professional installation is highly recommended.
- **Power Handling:** Do not exceed the maximum power handling of 140W (70W RMS) to prevent speaker damage.
- **Wiring:** Ensure all wiring is correctly connected according to the diagrams provided. Incorrect wiring can lead to malfunction or damage.
- **Environment:** Avoid exposing speakers to excessive moisture, extreme temperatures, or direct sunlight. This product is not waterproof.
- **Secure Mounting:** Ensure all components are securely mounted to prevent detachment during vehicle operation.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume responsibly.

## PACKAGE CONTENTS

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Verify that all components are present in the package:

- Speaker drivers (woofers and tweeters)
- Crossovers
- Grilles
- Mounting hardware



Image: Complete Focal 165 V20 component speaker system, including woofers, tweeters, crossovers, and grilles.

## SETUP AND INSTALLATION

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Proper installation is crucial for optimal sound quality. Consider professional installation if you are unfamiliar with car audio wiring and mounting.

### 1. Mounting the Woofers

- The 6.5-inch woofers require a mounting depth of approximately 2.8 inches.
- Choose a suitable location in your vehicle, typically door panels, ensuring adequate clearance and structural integrity.
- Use the provided mounting hardware to secure the woofers firmly.



Image: Close-up view of the Focal 165 V20 6.5-inch woofer with its protective grille.

## 2. Tweeter Installation

- The tweeters feature an Aluminum/Magnesium Inverted Dome design.
- Install tweeters in a location that provides optimal sound staging, such as dashboard corners or A-pillars.
- Utilize the included mounting hardware for flush or surface mounting options.





Image: Two Focal 165 V20 inverted dome tweeters, showing their compact design.

### 3. Connecting the Crossovers

- The system includes 2-way separate crossovers with a 6/12 dB/Octave slope at 4.5kHz.
- Connect the input from your amplifier to the 'INPUT' terminals on the crossover.
- Connect the woofer to the 'WOOFER' terminals and the tweeter to the 'TWEETER' terminals.
- Ensure correct polarity (+ to + and - to -) for all connections.
- Mount the crossovers in a dry, accessible location, away from heat sources.



Image: The Focal 165 V20 2-way separate crossover, showing input and output terminals for woofer and tweeter.

## OPERATING INSTRUCTIONS

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Once installed, connect your Focal 165 V20 speakers to a compatible amplifier. The system is designed to handle a nominal power of 70W RMS and a maximum power of 140W. Adjust amplifier settings, such as gain and equalization, to achieve desired sound quality. Start with low volume and gradually increase to prevent damage to the speakers or your hearing.

## MAINTENANCE

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To ensure the longevity and performance of your speakers:

- **Cleaning:** Use a soft, dry cloth to clean the speaker grilles and cones. Avoid using harsh chemicals or abrasive materials.
- **Inspection:** Periodically check all connections for tightness and ensure no wires are frayed or exposed.
- **Environmental Protection:** Protect speakers from direct exposure to water, dust, and extreme temperatures.

## TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

- **No Sound:**
  - Check all wiring connections from the amplifier to the crossovers and speakers.
  - Verify the amplifier is powered on and functioning correctly.
  - Ensure the audio source is active and properly connected.
- **Distorted Sound:**
  - Reduce the volume level; distortion often occurs at excessively high volumes.
  - Check amplifier gain settings; ensure they are not set too high.
  - Inspect speaker cones for any physical damage.
- **One Speaker Not Working:**
  - Check the specific speaker's wiring and crossover connections.
  - Swap the non-working speaker with a working one (if possible) to determine if the issue is with the speaker or the wiring/amplifier channel.

## SPECIFICATIONS

Feature	Detail
Brand	Focal
Model Number	165 V20
Speaker Type	Component
Speaker Size	6.5 Inches
Nominal Power (RMS)	70 Watts
Maximum Output Power	140 Watts
Woofer Diameter	6.5 Inches
Mounting Depth	2.8 Inches
Tweeter Type	Aluminum/Magnesium Inverted Dome
Crossover Type	2-Way Separate Crossover: 6/12 dB/Oct (4.5kHz)
Connectivity Technology	Coaxial (for connection type, though speakers are component)
Included Components	Speaker drivers, crossovers, grilles, mounting hardware
Item Weight	8 Pounds
Water Resistance Level	Not Water Resistant

## WARRANTY AND SUPPORT

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The Focal 165 V20 Component Speakers System comes with a limited warranty provided by the manufacturer, Focal. For specific warranty terms, duration, and conditions, please refer to the documentation included with your purchase or visit the official Focal website. For technical support, service, or warranty claims, please contact Focal customer service directly.

**Manufacturer:** Focal