

Focal R-690C

Focal R-690C 6"x9" 160 Watts RMS 3-Way Auditor Series Coaxial Speakers User Manual

Model: R-690C | Brand: Focal

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1. INTRODUCTION

Thank you for choosing Focal R-690C 3-Way Coaxial Speakers. These high-quality car audio speakers are designed to deliver superior sound performance in your vehicle. Featuring a 6"x9" polypropylene woofer cone, Mylar dome mid-range driver, and tweeter, they provide a balanced and dynamic audio experience. This manual provides essential information for the proper installation, operation, and maintenance of your new speakers.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installing and operating the speakers. Failure to follow these guidelines may result in injury or damage to the product or vehicle.

- Always disconnect the vehicle's battery before beginning any electrical work to prevent short circuits.
- Ensure proper wiring polarity to avoid damage to the speakers and amplifier.
- Do not expose speakers to excessive moisture or extreme temperatures.
- Mount speakers securely to prevent them from becoming loose during vehicle operation.
- Consult a professional car audio installer if you are unsure about any installation steps.
- Avoid listening to audio at excessively high volumes for prolonged periods, as this can cause hearing damage.

3. WHAT'S IN THE BOX

Verify that all components are present before proceeding with installation:

- Pair of Focal R-690C 6"x9" Coaxial Speakers

- Speaker Grilles (Pair)
- Mounting Hardware (Screws, clips, etc. - specific items may vary)
- Instruction Manual (This document)



Image 3.1: Focal R-690C speakers with included grilles.

This image displays the two Focal R-690C coaxial speakers, one with its protective grille installed and the other showing the speaker cone and tweeter assembly. The grilles are designed to protect the speaker components while allowing sound to pass through.



Image 3.2: Focal R-690C retail packaging.

This image shows the retail box for the Focal R-690C speakers, highlighting the product name, model, and key features. The packaging ensures the speakers are protected during transit.

4. SETUP AND INSTALLATION

4.1. Mounting the Speakers

The Focal R-690C speakers are designed for standard 6"x9" openings. Ensure the mounting location in your vehicle provides sufficient depth and clearance for the speaker magnet and basket. The mounting depth is approximately 3-3/16 inches (81mm).

1. Carefully remove the existing speakers or trim panels from the desired mounting location.
2. Test fit the new Focal R-690C speakers to ensure proper alignment and clearance.
3. Use the provided mounting screws to secure the speakers firmly in place. Do not overtighten.
4. Install the protective grilles over the speakers if desired.



Image 4.1: Rear view of Focal R-690C speakers.

This image shows the rear view of two Focal R-690C speakers, revealing the robust steel basket and the large magnet structure. This view is important for understanding the speaker's mounting depth and terminal connections.

4.2. Wiring Connections

Proper wiring is crucial for optimal performance and to prevent damage. These speakers have an impedance of 4 ohms.

1. Identify the positive (+) and negative (-) terminals on the speakers and your vehicle's wiring harness or amplifier.
2. Connect the positive terminal of the speaker to the positive output of your amplifier/head unit.
3. Connect the negative terminal of the speaker to the negative output of your amplifier/head unit.
4. Ensure all connections are secure and insulated to prevent short circuits.
5. It is recommended to use high-quality speaker wire of appropriate gauge for your power requirements.

5. OPERATING YOUR SPEAKERS

Once installed and wired correctly, your Focal R-690C speakers are ready for use. These speakers are designed to handle a power range of 2-80 watts RMS (160 watts peak) each.

- **Power Matching:** Ensure your amplifier or head unit's power output is within the recommended RMS power range of the speakers to prevent underpowering or overpowering, both of which can cause damage.
- **Volume Control:** Start with a low volume and gradually increase it to a comfortable listening level. Avoid pushing the speakers to distortion, as this indicates they are being overdriven.
- **Break-in Period:** Like all new speakers, the Focal R-690C may benefit from a break-in period of several hours of normal use. This allows the speaker's suspension components to loosen up, potentially improving sound quality.
- **Audio Settings:** Adjust the equalizer and other audio settings on your head unit or amplifier to fine-tune the sound to your preference.

6. MAINTENANCE AND CARE

Proper care will ensure the longevity and continued performance of your Focal R-690C speakers.

- **Cleaning:** Use a soft, dry cloth to gently wipe down the speaker grilles and surrounds. Avoid using harsh chemicals, solvents, or abrasive cleaners, as these can damage the materials.
- **Protection:** Keep the speakers free from dust, dirt, and debris. If installed in an exposed location, consider using the provided grilles for protection.
- **Environmental Factors:** While designed for automotive use, avoid prolonged exposure to extreme temperatures or direct sunlight, which can degrade speaker components over time.
- **Professional Inspection:** If you notice any unusual sounds or performance issues, it is advisable to have the speakers inspected by a qualified car audio technician.

7. TROUBLESHOOTING

If you experience issues with your speakers, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
No sound from speakers	Loose or incorrect wiring; Amplifier off or in protect mode; Head unit issue.	Check all speaker wire connections for proper polarity and tightness. Verify amplifier power and status. Check head unit settings.
Distorted sound	Overdriving speakers (volume too high); Incorrect amplifier gain settings; Damaged speaker.	Reduce volume. Adjust amplifier gain to match head unit output. Inspect speaker cone for physical damage.
Weak or no bass	Incorrect wiring polarity; Phase issue; Speaker not sealed properly in enclosure.	Double-check wiring polarity. Ensure speakers are securely mounted and sealed.
Intermittent sound	Loose connections; Damaged wiring.	Inspect all wiring and connections for looseness or damage.

8. SPECIFICATIONS

Detailed technical specifications for the Focal R-690C speakers:

Feature	Detail
Speaker Type	3-Way Coaxial
Woofer Size	6"x9" (164x235mm)
Woofer Cone Material	Polypropylene
Surround Material	Butyl Rubber
Mid-range Driver	Mylar Dome
Tweeter	Mylar Dome
RMS Power Handling	2-80 Watts per speaker
Peak Power Handling	160 Watts per speaker
Frequency Response	50-20,000 Hz
Sensitivity	92 dB
Impedance	4 Ohms
Mounting Depth	3-3/16" (81mm)
Basket Type	Rigid Steel
Included Components	Pair of Speakers, Grilles
Product Dimensions (D x W x H)	9.25"D x 6.46"W x 3.35"H
Item Weight	10.2 Pounds

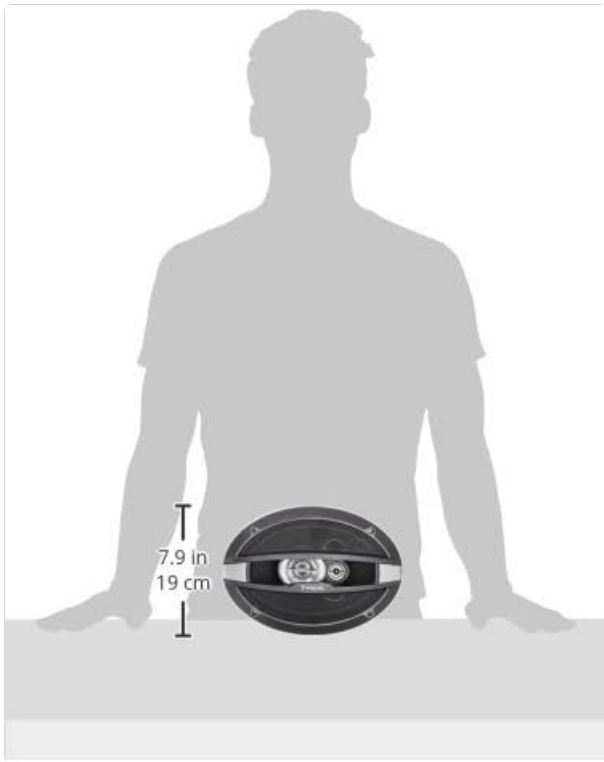


Image 8.1: Dimensional diagram of the Focal R-690C speaker.

This diagram illustrates the key dimensions of the Focal R-690C speaker, including its length and width, which are crucial for determining fit in a vehicle's speaker openings. The diagram shows a measurement of 7.9 inches (19 cm) across the shorter axis of

the oval speaker.

9. WARRANTY AND SUPPORT

9.1. Limited Warranty




Focal products are manufactured to the highest standards. The Focal R-690C speakers come with a Limited Warranty. Please refer to the warranty card included with your product or visit the official Focal website for detailed terms and conditions regarding coverage, duration, and claims procedures. Typically, this warranty covers defects in materials and workmanship under normal use.




9.2. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Focal customer support. You can usually find contact information (phone, email, or support portal) on the official Focal website or through your authorized dealer. When contacting support, please have your product model number (R-690C) and proof of purchase readily available.
For more information, visit the [Focal Store on Amazon](#).

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Related Documents - R-690C

	<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 T3Y Series Car Speakers: User Manual, Specifications, and Installation Guide</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>Focal FLAX EVO™ Car Speaker Systems: User Manual & Specifications</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>SLATEFIBER PC 165 SF PS 165 SF</p> <p>Manuel d'installation / User Manual / Installationsanleitung Manuale d'installazione / Manual de instalación / Instruções de instalação Manual de instalación / Manual de instalación / Instruções de instalação Manual de instalación / Manual de instalación / Instruções de instalação</p> <p>FOCAL</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>K2 POWER M</p> <p>FRANK 1.000 6.5 CM - 100 W MAX</p> <p>Carveraggio medio / Small Size</p> <p>FOCAL</p>	<p>Focal K2 Power M Series Car Audio Speakers</p> <p>Explore the Focal K2 Power M series, featuring the FRAK tweeter and other models like 3 KM, 6.5 KM, and SUB 5. This guide provides an overview of their advanced features, technical specifications, installation diagrams, and recommended active filter settings for high-fidelity car audio systems.</p>
 <p>KANTA™</p> <p>Manuel d'installation / User Manual / Installationsanleitung Manuale d'installazione / Manual de instalación / Instruções de instalação Manual de instalación / Manual de instalación / Instruções de instalação</p> <p>FOCAL</p>	<p>Focal Kanta Series Loudspeakers User Manual</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>