

Rhino Rack RL150GMC

Rhino Rack RL150GMC Leg Brackets User Manual

Model: RL150GMC

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1. INTRODUCTION

The Rhino-Rack RL Leg Brackets (Model RL150GMC) are heavy-duty legs specifically designed for mounting roof rack systems to vehicle gutter mounts. These legs provide a secure and stable foundation for carrying various loads on your vehicle's roof. The RL150GMC model offers a 150mm height, suitable for vehicles requiring medium clearance. These legs are built for durability and compatibility with a wide range of Rhino-Rack accessories, including those for light off-road use.



Figure 1: Vehicle equipped with a Rhino-Rack roof rack system, demonstrating typical usage in an outdoor setting.

2. SAFETY INFORMATION

- Always ensure all components are securely fastened before driving.
- Do not exceed the maximum load capacity of your vehicle's roof or the roof rack system. Refer to your vehicle's owner's manual for specific load limits.
- Regularly check all bolts, nuts, and straps for tightness, especially after initial installation and before long trips.
- Distribute weight evenly across the roof rack to maintain vehicle stability.
- Be aware of increased vehicle height and width when carrying loads, especially when entering garages, car washes, or low-clearance areas.
- Avoid sudden maneuvers, hard braking, or sharp turns when carrying heavy or bulky items.
- For off-road use, reduce speed and exercise extreme caution.

3. PACKAGE CONTENTS

The Rhino Rack RL150GMC Leg Brackets package typically includes the following components:

- RL Leg Brackets (x2)
- Mounting Hardware (bolts, nuts, washers)
- Rubber Gaskets/Pads for protection
- End Caps for crossbars
- Rubber Strips for crossbar channels
- Necessary Tools (e.g., Allen key, wrench)
- Fitting Instructions (this manual)

4. SPECIFICATIONS

Feature	Detail
Brand	Rhino Rack
Model Number	RL150GMC
Color	Black
Material	Glass Filled Nylon
Finish Type	Powder Coated
Item Dimensions (L x W x H)	11 x 7 x 4 inches
Mounting Type	Roof Mount (Gutter Mount)
Manufacturer	Rhino-Rack USA, LLC

5. INSTALLATION GUIDE

Follow these steps carefully for proper installation of your Rhino Rack RL150GMC Leg Brackets. It is recommended to have a second person assist during installation.

5.1. Prepare the Crossbars and Brackets

1. Identify the front and rear crossbars. The pointed end of the crossbar should face towards the rear of your vehicle, and the round end towards the front.
2. Install the short screws onto the brackets, but do not tighten them fully at this stage.
3. Carefully pull out a section of the rubber strip from the back of the crossbar.
4. Slide the brackets onto the crossbar with the loosened screws.
5. Attach the sponge pad to the base foot of each bracket.
6. Insert the metal end caps into the ends of the crossbars and secure them with the provided screws.



Figure 2: A roof rack system installed on a vehicle, demonstrating its capacity to transport recreational equipment like bicycles and kayaks.

5.2. Marking and Drilling

Important: Before drilling, ensure there are no roof supports or cross braces where your holes will be. Measure carefully.

7. Position the assembled crossbars on your vehicle's roof to determine the desired locations for the leg brackets.

- Use a pen or marker to accurately draw the location of the holes to be drilled on the vehicle's roof, corresponding to the bracket positions.
- Using an appropriate drill bit, carefully drill holes at the marked locations.

5.3. Securing the Brackets

- Align each bracket above its drilled hole.
- Insert the long screw through the bracket and into the drilled hole in the roof.
- From the inside of the vehicle (or underside of the roof), install the nut and washer onto the screw.
- Apply waterproof caulking to all important spots around the drilled holes and screws to prevent water leakage.
- Adjust the position of the brackets as needed and then securely tighten all screws.

5.4. Installation Videos

For visual guidance, please refer to the following installation videos:

Installation Guidance for Camper Shell Ladder Rack

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This video provides a step-by-step guide on installing a camper shell ladder rack, demonstrating the general process of attaching crossbars and brackets to a vehicle's roof.

Truck Topper Rack Installation

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A visual demonstration of installing a truck topper rack, including component assembly and mounting procedures.

60" Pickup Truck Topper Ladder Rack Overview

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This video provides a brief overview of a 60-inch pickup truck topper ladder rack, showcasing its features and general appearance after installation.

6. OPERATING INSTRUCTIONS

Once the RL Leg Brackets and associated crossbars are securely installed, you can begin using your roof rack system.

- Loading Cargo:** Place items on the crossbars, ensuring even weight distribution. Use appropriate tie-downs or cargo straps to secure all items firmly.
- Accessory Compatibility:** The RL Leg Brackets are compatible with a wide range of Rhino-Rack accessories. Ensure any accessories used are correctly installed and rated for your intended load.
- Weight Limits:** Always adhere to the maximum load capacity of your roof rack system and your vehicle. Overloading can lead to damage or unsafe driving conditions.
- Driving with Load:** Drive cautiously, especially at higher speeds or in windy conditions. Increased drag and weight can affect vehicle handling and fuel efficiency.



Figure 3: A vehicle showcasing a roof rack system, ready for transporting gear.

7. MAINTENANCE

Proper maintenance will ensure the longevity and safe operation of your Rhino Rack RL150GMC Leg Brackets.

- **Regular Inspections:** Periodically check all bolts, nuts, and mounting points for tightness. Re-tighten as necessary.
- **Cleanliness:** Clean the leg brackets and crossbars regularly with mild soap and water to remove dirt, grime, and road salt. Avoid harsh chemicals that may damage the finish.
- **Rubber Components:** Inspect rubber gaskets and strips for wear, cracks, or damage. Replace if necessary to maintain proper sealing and friction.
- **Corrosion Prevention:** If operating in corrosive environments (e.g., coastal areas, salted roads), rinse the system frequently and apply a corrosion inhibitor to metal parts.
- **Seasonal Removal:** If the roof rack is not used for extended periods, consider removing it to reduce wear and tear and improve fuel efficiency.

8. TROUBLESHOOTING

Here are some common issues and their potential solutions:

- **Issue: Excessive Wind Noise**
Solution: Ensure all rubber strips are properly seated in the crossbar channels. Check that the crossbars are correctly positioned and tightened. Some wind noise is normal with roof rack systems.
- **Issue: Loose Components**
Solution: Re-check and tighten all mounting bolts and screws. Ensure the leg brackets are firmly seated on the vehicle's gutter mounts.
- **Issue: Water Leakage Around Mounting Points**
Solution: Verify that waterproof caulking was applied correctly during installation. Reapply or add more caulking if gaps are present. Ensure all washers and nuts are securely tightened.
- **Issue: Difficulty Attaching Accessories**
Solution: Ensure you are using compatible Rhino-Rack accessories. Check that the T-slots in the crossbars are clear of debris and that accessory mounting hardware is correctly aligned.

9. WARRANTY AND SUPPORT

The Rhino Rack RL150GMC Leg Brackets come with a **5-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use and service.

For warranty claims, technical support, or further assistance, please contact Rhino-Rack USA, LLC directly or visit their official website. Keep your proof of purchase for warranty validation.

For more information, visit the official [Rhino Rack Store](#).