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› Rough Country N3 Rear Shocks for 93-98 Jeep Grand Cherokee (4-6 inch Lift) Instruction Manual

Rough Country 23308_A

Rough Country N3 Rear Shocks for 93-98 Jeep Grand Cherokee (4-6 inch Lift) Instruction Manual

Model: 23308_A

Introduction Safety Information Setup &
Installation Maintenance Troubleshooting Specifications Warranty & Support

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Rough Country N3 Rear Shocks, Model 23308_A. These shocks are designed for 1993-1998 4WD Jeep Grand Cherokee vehicles with a 4-6 inch lift. Please read this manual thoroughly before proceeding with installation or use.

The N3 shocks feature 10-stage variable valving and are high-pressure Nitrogen charged, offering a balance of off-road performance and smooth highway ride quality. They are constructed with an 18mm spring-loaded piston rod and a 54mm shock body for durability and efficient vibration dampening.

2. SAFETY INFORMATION

WARNING: Professional installation is highly recommended.

Rough Country recommends that a certified technician install lift systems. Knowledge of Rough Country instructions, suspension procedures, and post-installation checks are required. Improper installation may impact the integrity and operating safety of the vehicle.

Important Safety Checks:

- All bolts and nuts must be checked for tightness after the first 500 miles of operation.
- Re-check all bolts and nuts every 1,000 miles thereafter.
- Wheel alignment, steering system, suspension, and driveline systems must be inspected by a qualified, professional mechanic at least every 3,000 miles.
- Always use appropriate personal protective equipment (PPE) during installation.
- Ensure the vehicle is properly supported on jack stands or a lift before working underneath it.

3. SETUP & INSTALLATION

This section outlines the general steps for installing the N3 Rear Shocks. Refer to the detailed installation instructions provided with your lift kit or consult a certified technician.

3.1 Unpacking and Inspection

Upon receiving your N3 Rear Shocks, carefully unpack the contents and inspect for any shipping damage or missing parts. The package should contain:

- (2) Premium N3 Shocks

If any items are damaged or missing, contact Rough Country customer service immediately.

3.2 General Installation Steps (Rear Shocks)

1. **Prepare Vehicle:** Park the vehicle on a level surface, engage the parking brake, and block the wheels. Lift the rear of the vehicle using a jack and support it securely with jack stands under the frame. Allow the axle to hang freely.
2. **Remove Old Shocks:** Locate the existing rear shocks. Using appropriate wrenches, remove the upper and lower mounting bolts. Carefully remove the old shocks from the vehicle.
3. **Install New Shocks:** Position the new Rough Country N3 Rear Shocks. Install the upper mounting bolt first, ensuring any bushings are correctly seated. Do not fully tighten at this stage.
4. **Connect Lower Mount:** Align the lower mount of the new shock with the axle mounting point. Insert the lower mounting bolt. Ensure all bushings are in place.
5. **Tighten Hardware:** Once both shocks are in place, lower the vehicle slightly so that the suspension is at ride height or under slight compression. This helps to properly seat the bushings. Fully tighten all upper and lower mounting bolts to the manufacturer's specified torque.
6. **Final Checks:** Remove jack stands and lower the vehicle completely. Bounce the vehicle a few times to settle the suspension. Visually inspect all connections to ensure they are secure and that there is no interference with other components.

Note: Specific torque values and detailed steps may vary based on the exact vehicle model and lift kit. Always refer to the comprehensive instructions provided with your lift kit.



Image: Rough Country N3 Rear Shock Absorber. This image displays the silver shock absorber with the Rough Country N3 branding, highlighting its robust construction.

3.3 Product Video Overview

Your browser does not support the video tag.

Video: Rough Country Premium N3 Shock Absorbers. This video provides a visual overview of the N3 shock absorbers, demonstrating their features, construction, and performance in various driving conditions, including off-road and highway use. It highlights the 35mm piston, 18mm piston rod, and 54mm shock body, showcasing the product's durability and design.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your N3 Rear Shocks.

- **Regular Inspection:** Periodically inspect the shocks for any signs of leaks, damage, or wear on the bushings.
- **Cleanliness:** Keep the shocks clean from excessive dirt, mud, and debris, especially around the piston rod and seals.
- **Fastener Checks:** As noted in the safety section, regularly check the tightness of all mounting bolts and nuts. Loose fasteners can lead to premature wear or failure.
- **Bushings:** If rubber bushings show signs of cracking, hardening, or excessive wear, they should be replaced to maintain proper dampening and prevent noise.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your N3 Rear Shocks.

Symptom	Possible Cause	Solution
Excessive Bouncing/Poor Ride Quality	Worn or damaged shocks; Incorrect installation; Overloaded vehicle.	Inspect shocks for leaks or damage. Verify correct installation and torque. Ensure vehicle is not overloaded beyond its capacity.
Clunking/Rattling Noise	Loose mounting hardware; Worn bushings; Shock contacting other components.	Check and tighten all mounting bolts. Inspect and replace worn bushings. Ensure proper clearance around the shock body.
Oil Leakage from Shock Body	Damaged seal; Internal component failure.	A small amount of oil residue is normal. Significant leakage indicates a failed seal. Replace the shock.

If you experience issues not listed here or if the suggested solutions do not resolve the problem, contact Rough Country customer support or a certified mechanic.

6. SPECIFICATIONS

- **Model:** 23308_A
- **Application:** 1993-1998 4WD Jeep Grand Cherokee (4-6 inch Lift)
- **Type:** N3 Premium Shock Absorber
- **Valving:** 10-stage variable valving
- **Charging:** High-pressure Nitrogen charged
- **Piston Rod:** 18mm chrome hardened
- **Piston:** 35mm
- **Shock Body:** 54mm large diameter
- **Fluid:** Military-spec fluid, rated for -40°C
- **Bushings:** Natural rubber
- **Finish:** Metallic silver paint
- **Item Weight:** Approximately 10 Pounds (per pair)
- **Included Components:** (2) Premium N3 Shocks

7. WARRANTY & SUPPORT

Rough Country N3 Rear Shocks are backed by Rough Country's Limited Lifetime Replacement Warranty. This warranty covers manufacturing defects and workmanship for the lifetime of the product to the original purchaser.

For warranty claims, technical support, or further assistance, please contact Rough Country customer service directly. Keep your proof of purchase for warranty validation.

Manufacturer Warranty Description: The product features a Limited Lifetime Replacement Warranty. Some documentation may refer to a 3-year manufacturer warranty, but the primary coverage is the Limited Lifetime Replacement Warranty.

For the most current warranty information and contact details, please visit the official Rough Country website or refer to the documentation included with your purchase.

