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› Rough Country N3 Rear Shock Absorbers Instruction Manual for Jeep Wrangler JK (23144_A)

Rough Country 23144_A

Rough Country N3 Rear Shock Absorbers Instruction Manual

Model: 23144_A for 2007-2018 Jeep Wrangler JK

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Rough Country N3 Rear Shock Absorbers. Designed for 2007-2018 Jeep Wrangler JK models with 0-3 inches of lift, these premium shock absorbers enhance vehicle performance and ride quality.

SAFETY INFORMATION

Important: 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.

Always wear appropriate personal protective equipment (PPE) during installation, including safety glasses and gloves.

LEGAL DISCLAIMER

It is the buyer's responsibility to ensure all bolts and nuts are checked for tightness after the first 500 miles, and then every 1,000 miles thereafter. The wheel alignment, steering system, suspension, and driveline systems must be inspected by a qualified, professional mechanic at least every 3,000 miles.

WHAT'S IN THE BOX

- (2) Rough Country N3 Premium Shock Absorbers



Image: Two Rough Country N3 Premium Shock Absorbers, silver in color, with red and black branding, ready for installation.

SPECIFICATIONS

Feature	Detail
Valving	10 Stage Variable Valving
Charging	High Pressure Nitrogen Charged
Piston Rod	Chromed Hardened 18mm Piston Rod
Shock Body	54mm Fast Cooling Shock Body
Tensile Strength	36kN
Piston Rod Seal	Spring Loaded
Fluid Rating	Military Spec. Fluid Rated To -40° C
Bushings	Rubber Bushings
Finish	Metallic Silver Paint
Extended Length	25 Inches
Material	Alloy Steel, Rubber, Zinc
Vehicle Fitment	2007-2018 Jeep Wrangler JK (0-3" Lift)



Image: A close-up of a Rough Country N3 shock absorber with a list of its key features, including 10-stage variable valving and nitrogen charging.

SETUP AND INSTALLATION

Note: Professional installation by a certified technician is strongly recommended due to the specialized nature of suspension components and the safety implications of improper installation.

1. **Preparation:** Park the vehicle on a level surface and engage the parking brake. Chock the front wheels. Lift the rear of the vehicle using a suitable jack and support it securely with jack stands. Remove the rear wheels.
2. **Remove Old Shocks:** Locate the upper and lower mounting bolts of the existing rear shock absorbers. Carefully remove these bolts. You may need to compress the old shock slightly to relieve tension. Remove the old shock absorber.
3. **Install New Shocks:** Position the new Rough Country N3 shock absorber into place. Ensure the bushings are correctly seated. Install the upper and lower mounting bolts. Do not fully tighten at this stage.
4. **Torque Bolts:** Once both shocks are in place, lower the vehicle until the suspension is at ride height. This allows the bushings to settle correctly before final tightening. Torque all mounting bolts to the vehicle manufacturer's specifications. Refer to your vehicle's service manual for exact torque values.
5. **Final Checks:** Reinstall the wheels and lower the vehicle completely. Perform a thorough inspection to ensure all components are securely fastened and there is no interference with other vehicle parts.



Image: A Rough Country N3 shock absorber visibly installed on the rear axle of a Jeep Wrangler JK, demonstrating its placement within the suspension system.

OPERATING PRINCIPLES

The Rough Country N3 Rear Shock Absorbers are designed to control suspension movement, providing a balanced and comfortable ride both on and off-road. Their 10-stage variable valving system adapts to various driving conditions, while the nitrogen charge helps prevent cavitation and maintains consistent performance.

The 54mm shock body is engineered for fast cooling, which contributes to prolonged shock life and consistent damping characteristics, especially during demanding use. The spring-loaded piston rod seal and military-spec fluid ensure durability and reliability in diverse environments.



Image: A cutaway view of the Rough Country N3 shock absorber, illustrating its internal piston, valving, and fluid chamber for damping control.

MAINTENANCE

- **Regular Inspection:** Periodically inspect the shock absorbers for any signs of leaks, damage, or wear. Check the condition of the rubber bushings for cracks or deterioration.
- **Bolt Tightness:** As per the legal disclaimer, regularly check and re-torque all mounting bolts to ensure they remain secure.
- **Cleaning:** Keep the shocks clean from excessive dirt, mud, and debris, especially around the piston rod, to prevent seal damage.
- **Professional Check-ups:** Adhere to the recommended professional inspections of your vehicle's suspension system every 3,000 miles.

TROUBLESHOOTING

- **Excessive Bouncing/Poor Ride Quality:** This could indicate worn-out shocks or improper installation. Inspect for leaks or damage. If shocks are old, consider replacement. If new, re-check installation and torque specifications.
- **Noises (Clunking/Squeaking):** Check all mounting points for looseness or worn bushings. Ensure no components are rubbing. Lubricate rubber bushings if squeaking persists.
- **Leaking Fluid:** A visible leak from the shock body indicates a failed seal. The shock absorber will need to be replaced.

For persistent issues, consult a certified automotive technician.

WARRANTY INFORMATION

Rough Country N3 Rear Shock Absorbers are backed by Rough Country's Limited Lifetime Replacement Warranty. For specific terms and conditions, please refer to the official Rough Country warranty documentation or contact Rough Country customer support.

SUPPORT

For further assistance, technical support, or to view additional products, please visit the official Rough Country website or contact their customer service department.
You can also visit the [Rough Country Store on Amazon](#).

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question