

[Manuals.plus](#) /

› [Monroe](#) /

› Monroe Gas-Matic Truck Shock Absorber 59013 User Manual

Monroe 59013

Monroe Gas-Matic Truck Shock Absorber 59013 User Manual

Model: 59013

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Monroe Gas-Matic Truck Shock Absorber, model 59013. Designed for trucks, this gas-charged shock absorber is engineered to deliver improved ride comfort and control. Please read this manual thoroughly before proceeding with installation or use.

SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Improper installation or handling of suspension components can lead to serious injury or vehicle damage. It is highly recommended that installation be performed by a qualified automotive technician.

- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift before beginning any work. Never rely solely on a jack.
- Do not attempt to disassemble the shock absorber. Gas-charged units are under high pressure.
- Refer to your vehicle's specific service manual for detailed instructions and torque specifications.
- Keep hands and clothing clear of moving parts.

PACKAGE CONTENTS

Your Monroe Gas-Matic Truck Shock Absorber package should contain the following:

- 1 x Monroe Gas-Matic Truck Shock Absorber (Model 59013)
- Necessary mounting hardware (bushings, washers, nuts) - *may vary by application*

Inspect all components for damage or missing parts upon receipt. Contact your supplier immediately if any issues are found.

INSTALLATION

The following steps provide a general guide for installing the Monroe Gas-Matic Truck Shock Absorber. Always consult your vehicle's specific service manual for precise instructions and torque specifications.

Tools and Materials Required:

- Vehicle jack and jack stands or automotive lift
- Wrench set (metric/standard as required)
- Socket set and ratchet
- Torque wrench
- Penetrating oil (optional, for rusted bolts)
- Wire brush (optional, for cleaning mounting surfaces)

Procedure:

1. **Prepare the Vehicle:** Park the vehicle on a level, firm surface. Engage the parking brake. Loosen the lug nuts on the wheels corresponding to the shocks being replaced.
2. **Lift and Secure:** Using a jack, carefully lift the vehicle until the wheels are off the ground. Place sturdy jack stands under the vehicle's frame at appropriate points, ensuring the vehicle is stable. Remove the wheels.
3. **Remove Old Shock Absorber:** Locate the shock absorber. Depending on your vehicle, there will be upper and lower mounting points. Apply penetrating oil to rusted bolts if necessary. Using appropriate wrenches or sockets, carefully remove the upper and lower mounting bolts. Once the bolts are removed, the old shock absorber can be taken out.
4. **Prepare New Shock Absorber:** Before installation, ensure the new Monroe Gas-Matic shock absorber is fully extended. If it has a retaining strap, cut it only after the shock is ready to be installed.
5. **Install New Shock Absorber:** Position the new shock absorber into its mounting locations. Install the new bushings, washers, and nuts as per your vehicle's service manual. Insert the upper and lower mounting bolts. Hand-tighten all fasteners.
6. **Torque Fasteners:** Using a torque wrench, tighten all mounting bolts to the specifications provided in your vehicle's service manual. Proper torque is critical for safety and performance.
7. **Final Steps:** Reinstall the wheels and tighten lug nuts to factory specifications. Carefully lower the vehicle to the ground. After a short drive, re-check all mounting bolts for proper tightness.



This image displays the Monroe Gas-Matic Truck Shock Absorber, model 59013. It is a single, yellow cylindrical unit designed for truck suspension systems.

OPERATING PRINCIPLES

The Monroe Gas-Matic Truck Shock Absorber 59013 is a gas-charged, hydraulic shock absorber. It functions by converting kinetic energy (motion) into thermal energy (heat) through the resistance of fluid flow. The gas charge helps to maintain consistent fluid pressure, reducing aeration and foaming of the hydraulic fluid, which can lead to 'fade' or reduced damping performance. This design provides a quicker response and improved control, especially in demanding truck applications, by effectively dampening spring oscillations and maintaining tire contact with the road surface.

MAINTENANCE

Regular inspection of your shock absorbers can help ensure optimal performance and safety. While Monroe Gas-Matic shocks are designed for durability, periodic checks are recommended.

- **Visual Inspection:** Periodically inspect the shock absorbers for signs of fluid leaks, bent rods, or damaged mounting points.
- **Bushings:** Check the rubber bushings at the mounting points for cracks, wear, or deterioration. Worn bushings can lead to noise and reduced effectiveness.
- **Mounting Hardware:** Ensure all mounting bolts and nuts are securely tightened. Re-torque if necessary according to vehicle specifications.
- **Cleaning:** Keep the shock absorbers free from excessive dirt and debris, which can accelerate wear.

If any significant damage or wear is observed, replacement of the shock absorber is recommended.

TROUBLESHOOTING

If you experience issues with your vehicle's suspension after installing or while using the Monroe Gas-Matic Truck Shock Absorber, consider the following common problems and potential solutions:

Problem	Possible Cause	Solution
Excessive Bouncing or Sway	Worn shock absorber, incorrect installation, or other suspension component issues.	Inspect shocks for leaks or damage. Verify proper installation and torque. Check other suspension components (springs, control arms).
Clunking or Rattling Noise	Loose mounting hardware, worn bushings, or contact with other components.	Check all mounting bolts for tightness. Inspect bushings for wear and replace if necessary. Ensure shock absorber is not contacting other parts of the vehicle.
Uneven Ride Height	Not typically caused by shock absorbers alone; more likely related to springs or vehicle load.	Inspect vehicle springs for damage or sagging. Ensure vehicle is not overloaded.
Fluid Leaks from Shock	Seal failure or damage to the shock body.	Replace the shock absorber. A small amount of oil film is normal, but active dripping indicates a leak.

If troubleshooting steps do not resolve the issue, consult a professional automotive technician.

SPECIFICATIONS

Key specifications for the Monroe Gas-Matic Truck Shock Absorber, model 59013:

Specification	Detail
Brand	Monroe
Model Number	59013
Manufacturer Part Number	59013
Auto Part Position	Front
Vehicle Service Type	Truck
Material	Metal

Specification	Detail
ASIN	B007BO6AFW
Date First Available	December 30, 2018

WARRANTY AND SUPPORT

For information regarding the warranty of your Monroe Gas-Matic Truck Shock Absorber 59013, please refer to the documentation included with your purchase or visit the official Monroe website. For technical support or further assistance, contact Monroe customer service through their official channels.

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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

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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