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Monroe Magnum 66458 Suspension Shock Absorber User Manual

Model: 66458

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Monroe Magnum 66458 Suspension Shock Absorber. Designed for hardworking commercial vehicles, this shock absorber ensures consistent ride quality and enhanced handling. Please read this manual thoroughly before installation and use to ensure safety and optimal performance.

PRODUCT OVERVIEW



Image: The Monroe Magnum 66458 Suspension Shock Absorber, shown in its distinctive yellow finish. This image displays the full length of the shock absorber, highlighting its robust construction and design.

The Monroe Magnum 66458 is a heavy-duty suspension shock absorber engineered for demanding commercial vehicle applications. It features advanced valving and durable components to provide reliable performance and extended service life.

COMPATIBILITY

The Monroe Magnum 66458 Suspension Shock Absorber is compatible with the following vehicles:

- 2018-2022 Freightliner Cascadia

- 2018-2020 Freightliner Cascadia

Important: Before purchasing and installing, it is crucial to verify compatibility with your specific vehicle. Always enter all vehicle information (year, make, model, engine, and trim) to ensure the correct part fitment and check any qualifier notes provided by the manufacturer.

KEY FEATURES

- **Commercial Vehicle Design:** Engineered to meet the rigorous demands of high-mileage and severe-use Class 3-6 trucks and buses.
- **Consistent Ride:** Features all-weather fluid with special additives to resist extreme temperatures and reduce oil breakdown. A 2-inch or 2-1/4-inch reserve tube (where applicable) holds more fluid for improved performance.
- **Exceptional Handling:** Equipped with 10-stage valving, specifically tuned for each vehicle, to adapt to varying road conditions. A larger 1-3/8-inch bore (most applications) provides efficient damping control for consistency and a smooth ride.
- **Strength and Durability:** Shouldered bushing and bonded bushing with sleeve protect against bushing walkout. Arc welds up to 360° enhance overall durability.
- **Extended Service Life:** A bearing with PTFE coating reduces friction between the rod and rod guide. A nitrocarburized piston rod further contributes to durability and a longer service life (most applications).
- **Hydraulic Lock-Out:** Robust hydraulic lock-out prevents over-extension of air bags, piston top-out, and damage to the seal assembly (on most applications).
- **Reduced NVH:** Delivers superior control and isolates impact-related noise, vibration, and harshness under most driving conditions.
- **Improved Performance:** Nitrogen gas-charge helps maintain tire-to-road contact, enhancing ride quality and handling by reducing aeration and shock fade.

SETUP AND INSTALLATION

Installation of the Monroe Magnum 66458 Suspension Shock Absorber requires specialized tools and automotive knowledge. It is highly recommended that installation be performed by a qualified professional mechanic.

General Installation Guidelines:

1. **Safety First:** Always ensure the vehicle is securely supported on jack stands or a lift. Wear appropriate personal protective equipment, including safety glasses and gloves.
2. **Consult Vehicle Manual:** Refer to your vehicle's specific service manual for detailed instructions on shock absorber removal and installation procedures, torque specifications, and any special tools required.
3. **Inspect Components:** Before installation, inspect all mounting hardware, bushings, and surrounding suspension components for wear or damage. Replace any worn parts as necessary.
4. **Proper Orientation:** Ensure the new shock absorber is installed in the correct orientation as specified by the vehicle manufacturer.
5. **Torque Specifications:** Tighten all fasteners to the vehicle manufacturer's specified torque values. Overtightening or undertightening can lead to component failure or reduced performance.
6. **Post-Installation Check:** After installation, perform a thorough check of all connections and ensure there is no interference with other vehicle components.

Note: The shock absorber may be shipped with a strap or band to keep it compressed. Remove this only after the shock is properly mounted and ready for extension.

OPERATION

The Monroe Magnum 66458 Suspension Shock Absorber is a passive component designed to control spring oscillations and maintain tire contact with the road surface. It operates continuously while the vehicle is in motion.

How it Works:

When the vehicle encounters bumps or dips, the suspension springs compress and rebound. The shock absorber dampens these movements by converting kinetic energy into heat through the resistance of fluid flowing through internal valves. This controlled damping prevents excessive bouncing and swaying, contributing to vehicle stability, handling, and passenger comfort.

No user interaction is required for the operation of the shock absorber itself once installed correctly.

MAINTENANCE

Regular inspection of your Monroe Magnum 66458 Suspension Shock Absorbers is recommended to ensure continued performance and safety.

Inspection Schedule:

- **Every 12,000 miles or annually:** Visually inspect the shock absorbers for signs of wear or damage.

What to Look For:

- **Fluid Leaks:** Check for any signs of oil leakage around the piston rod seal. A light film is normal, but excessive wetness or dripping indicates a seal failure.
- **Physical Damage:** Inspect the shock body for dents, bends, or corrosion. Check the piston rod for pitting or scoring.
- **Bushing Wear:** Examine the rubber bushings at the mounting points for cracks, deterioration, or excessive play. Worn bushings can lead to noise and reduced effectiveness.
- **Mounting Hardware:** Ensure all mounting bolts and nuts are secure and free from corrosion.

If any significant wear or damage is observed, it is recommended to have the shock absorber inspected and potentially replaced by a qualified mechanic.

TROUBLESHOOTING

While Monroe Magnum shock absorbers are built for durability, certain symptoms may indicate a need for inspection or replacement.

Common Symptoms of Worn Shock Absorbers:

- **Excessive Bouncing:** The vehicle continues to bounce after hitting a bump, rather than quickly settling.
- **Poor Handling:** Reduced steering response, vehicle sway during turns, or a general feeling of instability.
- **Nose Dive/Squat:** Excessive front-end dive during braking or rear-end squat during acceleration.
- **Uneven Tire Wear:** Scalloped or cupped wear patterns on tires can indicate inadequate damping.

- **Fluid Leaks:** Visible oil leaks from the shock absorber body.
- **Noise:** Clunking or rattling sounds coming from the suspension, especially over rough roads.

If you experience any of these symptoms, it is advisable to have your vehicle's suspension system, including the shock absorbers, inspected by a professional mechanic.

SPECIFICATIONS

Attribute	Value
Brand	Monroe
Model	MAGNUM SHOCK (66458)
Auto Part Position	Lower
Vehicle Service Type	Car, Truck
Exterior Finish	Machined
Extended Length	20.74 Inches
Item Weight	5 pounds
Product Dimensions	23.25 x 4 x 2.62 inches
UPC	048598228789
Manufacturer Part Number	66458

WHAT'S IN THE BOX

The Monroe Magnum 66458 Suspension Shock Absorber package typically includes:

- Monroe Magnum 66458 Suspension Shock Absorber
- Dust Shield
- Parts Pack(s) (containing necessary bushings and hardware)

Note: Contents may vary slightly. Always check the packaging upon receipt.

WARRANTY AND SUPPORT

Monroe stands behind the quality of its products. The Monroe Magnum 66458 Suspension Shock Absorber comes with:

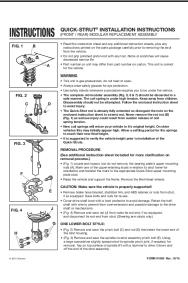
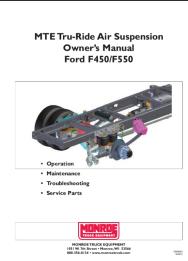
- **Monroe's 90-day Risk Free Ride Offer:** Consult Monroe's official website for full details and terms of this offer.
- **Limited Commercial Warranty:** This product is covered by a limited commercial warranty. Specific terms and conditions apply; please refer to the official Monroe warranty documentation for complete information.

Additionally, purchases made through Amazon may be eligible for a **30-day refund/replacement return policy**. Please refer to Amazon's return policy for details.

For technical assistance, warranty claims, or further product information, please visit the official Monroe

website or contact their customer support directly.

Related Documents - 66458

	<p><u>Monroe Shock Absorber and Strut Catalogue 2024-2025</u> Comprehensive 2024-2025 Monroe catalogue featuring shock absorbers, struts, and mounting/protection kits for a wide range of passenger and commercial vehicles. Find part numbers and application details.</p>
	<p><u>Monroe Quick-Strut Installation Instructions</u> Comprehensive installation guide for Monroe Quick-Strut modular replacement assemblies, covering removal and installation procedures for various vehicle strut configurations.</p>
	<p><u>Monroe 2019 Master Catalogue - Shock Absorbers & Suspension Parts</u> Explore the comprehensive Monroe 2019 Master Catalogue featuring a wide range of shock absorbers and suspension components for numerous vehicle makes and models. Find part numbers and technical information.</p>
	<p><u>Monroe Shock Absorber and Strut Catalogue 2024-2025</u> Comprehensive 2024-2025 Monroe catalogue featuring shock absorbers, struts, and mounting/protection kits for a wide range of passenger and commercial vehicles. Find part numbers and application details.</p>
	<p><u>MTE Tru-Ride Air Suspension Owner's Manual for Ford F450/F550</u> Comprehensive owner's manual for the Monroe Truck Equipment (MTE) Tru-Ride Air Suspension system designed for Ford F450 and F550 trucks. Covers installation, operation, maintenance, troubleshooting, and service parts.</p>
	<p><u>Monroe Quick-Strut Installation Instructions</u> Comprehensive installation guide for Monroe Quick-Strut modular replacement assemblies, covering removal and installation procedures for various vehicle strut configurations.</p>



[\[pdf\] Catalog](#)

PowerPoint Presentation Kennet Pipe SHOCK CATALOG RIDEFOX Year Model Front Rear 08 19
Xpeditor 4x2 w Hendrickson Primaax EX 232 Air Suspensions 8 5 10 Ride Height 980 31 019 Fox CSPG
Current Offerings and Cross References ridefox dl commercial |||
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