

MOOG K150410

MOOG K150410 Leaf Spring Shackle Bracket User Manual

For Ford F-250 Applications

1. INTRODUCTION AND PRODUCT OVERVIEW

The MOOG K150410 Leaf Spring Shackle Bracket is an automotive component designed for Ford F-250 vehicles. This product is part of MOOG's Problem Solver line, engineered to provide enhanced steering and handling performance, ease of installation, and extended service life. MOOG is a recognized brand among professional technicians for chassis and suspension components.

Key features of the K150410 include:

- Incorporates proven design and engineering features for reliable performance.
- Engineered for straightforward installation.
- Aims to restore original steering and handling characteristics.
- Designed for long life and dependability.
- Construction and design validated by MOOG engineers.
- Features a greaseable socket to inhibit corrosion and wear by allowing new lubricant to flush debris.

2. PRODUCT COMPONENTS

The MOOG K150410 package typically includes the following components:

- One (1) K150410 Leaf Spring Shackle Bracket assembly.



Figure 2.1: Front view of the MOOG K150410 Leaf Spring Shackle Bracket assembly, showing the main bracket and shackle components with bolts and nuts.



Figure 2.2: Rear view of the MOOG K150410 Leaf Spring Shackle Bracket, illustrating the reverse side of the bracket and shackle components.

3. SAFETY INFORMATION

Automotive repair and maintenance can be hazardous. Always follow proper safety procedures and use appropriate personal protective equipment (PPE) when working on vehicles. If you are not confident in your ability to perform this installation, seek assistance from a qualified professional.

- Always wear safety glasses to protect your eyes from debris.
- Use gloves to protect your hands.
- Ensure the vehicle is securely supported on jack stands or a lift before beginning any work. Never rely solely on a jack.
- Disconnect the vehicle's battery before working on electrical components, though not directly applicable to this part, it's a good general practice.
- Be aware of potential pinch points and hot surfaces.
- Refer to your vehicle's service manual for specific torque specifications and procedures.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning). Handle with care and wash hands after handling.

4. SETUP AND INSTALLATION

The MOOG K150410 Leaf Spring Shackle Bracket is designed for direct replacement on compatible Ford F-250 models. Installation typically involves removing the old shackle bracket and installing the new one. Professional installation is recommended.

Required Tools and Materials:

- Vehicle jack and jack stands
- Socket/wrench set (metric and/or standard, depending on vehicle)
- Torque wrench
- Penetrating oil (optional, for rusted bolts)
- Wire brush (optional, for cleaning mounting surfaces)
- Grease gun and appropriate grease (for greaseable fittings)

Installation Steps:

1. **Prepare the Vehicle:** Park the vehicle on a level, firm surface. Engage the parking brake. Loosen the lug nuts on the rear wheels.
2. **Lift and Secure:** Using a jack, lift the rear of the vehicle until the wheels are off the ground. Place jack stands securely under the frame rails, ensuring the vehicle is stable. Remove the rear wheels.
3. **Support Axle:** Place a jack under the rear axle to support its weight and allow for slight adjustments during shackle removal/installation.
4. **Remove Old Shackle Bracket:**
 - Locate the leaf spring shackle bracket to be replaced.
 - Carefully remove the bolts securing the shackle to the leaf spring and the frame. Penetrating oil may be needed for rusted fasteners.
 - Once all fasteners are removed, carefully detach the old shackle bracket. Note its orientation for correct installation of the new part.
5. **Inspect and Clean:** Inspect the mounting surfaces on the frame and leaf spring for corrosion or damage. Clean as necessary with a wire brush.
6. **Install New Shackle Bracket:**
 - Position the new MOOG K150410 shackle bracket in the correct orientation.
 - Insert the bolts through the shackle, leaf spring, and frame mounting points. Do not fully tighten at this stage.
7. **Tighten Fasteners:** Refer to your vehicle's service manual for the correct torque specifications for the shackle bolts. Tighten all fasteners to the specified torque. Proper torque is critical for safety and component longevity.
8. **Grease (if applicable):** If the K150410 features greaseable fittings, apply appropriate chassis grease using a grease gun until new grease purges from the joint.
9. **Reassemble:** Reinstall the wheels and lower the vehicle. Tighten lug nuts to vehicle manufacturer specifications.
10. **Final Check:** After installation, perform a visual inspection to ensure all components are correctly installed and tightened. Test drive the vehicle at low speeds to confirm proper function before normal operation.

Note:

- An alignment may be necessary after suspension component replacement to ensure proper vehicle handling and tire wear.

5. OPERATING PRINCIPLES

The leaf spring shackle bracket is a critical component of a vehicle's rear suspension system. It connects the leaf spring to the vehicle's frame, allowing the leaf spring to change length as the suspension compresses and extends. This movement is essential for absorbing road shocks and maintaining tire contact with the road surface, contributing to ride comfort and vehicle stability.

The MOOG K150410 is designed to facilitate this articulation smoothly and reliably, ensuring the leaf spring can function optimally. Its robust construction and design features aim to prevent premature wear and maintain proper suspension geometry.

6. MAINTENANCE

Regular inspection and maintenance can extend the life of your MOOG K150410 Leaf Spring Shackle Bracket and associated suspension components.

- **Periodic Inspection:** During routine vehicle maintenance, visually inspect the shackle bracket for signs of wear, corrosion, cracks, or damage. Check for loose or missing fasteners.
- **Lubrication:** If your K150410 features greaseable fittings, lubricate them periodically according to your vehicle's service schedule or at least during every oil change. Use a high-quality chassis grease. This helps flush out contaminants and reduces friction and wear.
- **Cleaning:** Keep the area around the shackle bracket free from excessive dirt, mud, and road salt, which can accelerate corrosion.

7. TROUBLESHOOTING

While the MOOG K150410 is designed for durability, issues can arise from improper installation, extreme operating conditions, or the wear of other suspension components.

Symptom	Possible Cause	Solution
Squeaking or creaking noises from rear suspension	<ul style="list-style-type: none">• Lack of lubrication in greaseable fittings.• Worn bushings in the shackle or leaf spring.• Loose fasteners.	<ul style="list-style-type: none">• Lubricate greaseable fittings.• Inspect and replace worn bushings.• Check and tighten all fasteners to specifications.
Excessive rear end sway or instability	<ul style="list-style-type: none">• Severely worn shackle bushings.• Damaged or bent shackle bracket.• Other worn suspension components (e.g., shocks, leaf springs).	<ul style="list-style-type: none">• Inspect and replace the shackle bracket if damaged.• Replace worn bushings.• Have a professional inspect the entire suspension system.
Uneven ride height at the rear	<ul style="list-style-type: none">• Damaged or bent shackle bracket.• Worn or broken leaf spring.	<ul style="list-style-type: none">• Inspect and replace the shackle bracket if damaged.• Inspect and replace leaf springs if necessary.

If troubleshooting steps do not resolve the issue, it is recommended to consult a certified automotive technician.

8. SPECIFICATIONS

The following specifications apply to the MOOG K150410 Leaf Spring Shackle Bracket:

- **Manufacturer:** MOOG Chassis Products
- **Model Number:** K150410
- **Item Weight:** 1.3 pounds (approx. 0.59 kg)

- **Product Dimensions (L x W x H):** 19.3 x 6 x 5 inches (approx. 49.0 x 15.2 x 12.7 cm)
- **Finish Type:** Black
- **Exterior:** Machined
- **UPC:** 080066084916
- **ASIN:** B07TFRY6W6
- **Compatibility:** Designed for specific Ford F-250 applications. Verify fitment before purchase.

9. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the official MOOG website or contact MOOG customer service directly. Warranty terms and conditions may vary.

For technical support, installation assistance, or further inquiries, please visit the official MOOG website or contact their customer support channels. You can also visit the [MOOG Store on Amazon](#) for additional product information and resources.



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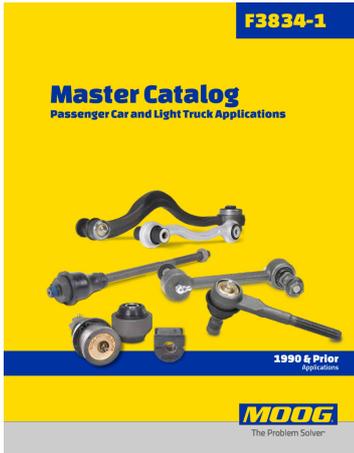
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