maXpeedingrods QV573GU

maXpeedingrods 5000 lbs Rear Air Suspension Bags Kit

For Ford F-150 2WD/4WD (2021-2025) - Installation and Operation Manual

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your maXpeedingrods 5000 lbs Rear Air Suspension Bags Kit. Adherence to these instructions is crucial for optimal performance and safety. This kit is designed to enhance vehicle stability and load-carrying capacity.

2. Compatibility

This air suspension kit is compatible with the following vehicles:

- **Make:** Ford
- **Model:** F-150 2WD/4WD
- **Years:** 2021, 2022, 2023, 2024, 2025

Note: This kit is NOT compatible with Ford F-150 PowerBoost or Raptor models.



Image: Compatibility chart indicating the kit is suitable for Ford F-150 Pickup RWD and 4WD models.

3. Package Contents

Please verify that all components listed below are present in your package before beginning installation. If any parts are missing or damaged, contact customer support immediately.



Image: Visual representation of all components included in the kit, such as air bags, mounting brackets, air line, and hardware.

- Air Spring Bags (2)
- Upper and Lower Mounting Brackets
- Roll Plates
- Air Line
- All necessary Hardware Kits (bolts, nuts, washers, air fittings, zip ties)
- Internal Jounce Bumpers (pre-installed in air springs)

4. Safety Information

Always prioritize safety during installation and operation. Failure to follow safety guidelines can result in injury or damage to the vehicle.

- **Professional Installation Recommended:** Due to the complexity of vehicle suspension systems, professional installation by a qualified mechanic is highly recommended.
- **Vehicle Support:** Always use appropriate jack stands or a vehicle lift to securely support the vehicle during

installation. Never work under a vehicle supported only by a jack.

- **Eye Protection:** Wear safety glasses to protect your eyes from debris.
- **Gloves:** Wear appropriate gloves to protect your hands.
- **Air Pressure:** Never exceed the maximum recommended air pressure of 100 PSI. Maintain a minimum of 5 PSI at all times, even when unloaded.
- **Torque Specifications:** Ensure all fasteners are tightened to the vehicle manufacturer's recommended torque specifications.

5. Installation Guide

This section provides a general overview of the installation process. Refer to a detailed service manual for your specific vehicle model for precise steps and torque specifications.

5.1 Preparation

1. Park the vehicle on a level surface and engage the parking brake.
2. Raise the rear of the vehicle and support it securely with jack stands. Allow the axle to hang freely.
3. Remove the rear wheels for easier access.

5.2 Mounting the Air Springs

1. Locate the mounting points on the vehicle frame and axle.
2. Assemble the air springs with the upper and lower mounting brackets as per the kit instructions. Ensure the internal jounce bumper is correctly seated within the air spring.
3. Position the assembled air spring and bracket assembly onto the vehicle's frame and axle. Secure with the provided hardware.
4. Tighten all bolts to the manufacturer's specified torque.



Image: Detail of the air spring, highlighting the internal jounce bumper designed to prevent bottoming out and provide additional stability.

5.3 Air Line Connection

1. Route the air line from the air springs to a convenient location for the inflation valves, avoiding sharp edges, heat sources, and moving parts.
2. Cut the air line to the appropriate length and connect it to the air springs and inflation valves using the provided fittings. Ensure all connections are secure and leak-free.
3. Install the inflation valves in an accessible location, such as the bumper or fender well.

5.4 Post-Installation Check

1. Reinstall the wheels and lower the vehicle.
2. Inflate the air springs to approximately 20-30 PSI.
3. Check for any air leaks using a soapy water solution on all connections. Bubbles indicate a leak.
4. Verify proper clearance around all components, ensuring no rubbing or interference.

6. Operation

The maXpeedingrods air suspension kit allows for adjustable air pressure to optimize your vehicle's ride height and load support.

6.1 Adjusting Air Pressure

- **Minimum Pressure:** Always maintain a minimum of 5 PSI in the air springs, even when the vehicle is unloaded. This prevents damage to the air springs.
- **Maximum Pressure:** Do not exceed 100 PSI.
- **Load Leveling:** Inflate the air springs to achieve a level ride height when carrying heavy loads or towing. This helps to restore proper steering, braking, and headlight aim.
- **Ride Comfort:** Adjust pressure within the recommended range to achieve desired ride comfort and stability based on road conditions and load.



Image: Illustration demonstrating how the air suspension kit helps level a truck when towing a trailer, improving stability and headlight aim.

7. Maintenance

Regular inspection and maintenance will prolong the life of your air suspension system.

- **Monthly Inspection:** Check air lines and connections for wear, cracks, or leaks. Ensure all mounting hardware is secure.
- **Cleanliness:** Keep the air springs free from dirt, debris, and corrosive materials.
- **Pressure Check:** Periodically check and maintain the recommended air pressure (5-100 PSI).

8. Troubleshooting

If you encounter issues with your air suspension kit, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Air Leak	Loose fittings, damaged air line, punctured air spring	Check all connections with soapy water. Tighten fittings. Inspect air lines and air springs for damage. Replace damaged components.
Uneven Ride Height	Unequal air pressure in bags, uneven load distribution	Check and adjust air pressure in each bag individually. Redistribute load evenly.
Air Springs Not Inflating	Blocked air line, faulty inflation valve, severe leak	Inspect air lines for kinks or blockages. Check inflation valve for proper function. Check for major leaks.

If problems persist after attempting these solutions, contact maXpeedingrods customer support.

9. Specifications

- **Load Leveling Capacity:** Up to 5,000 pounds
- **Adjustable Air Pressure:** 5 PSI to 100 PSI
- **Material:** Multi-ply rubber (4-4.5mm thickness)
- **Internal Feature:** Jounce Bumper
- **Product Dimensions:** Approximately 17.44 x 14.84 x 8.43 inches (packaged)
- **Item Weight:** Approximately 32.3 pounds
- **Model Number:** QV573GU



Image: Illustration detailing the 5000 lbs total load capacity of the air springs and their key dimensions (diameter and height).

10. Warranty and Support

maXpeedingrods is committed to product quality and customer satisfaction.

- **Warranty:** This product includes a 12-month warranty for quality issues. Replacement is available within this period.

- **Technical Support:** Lifetime technical support and customer service are provided.
- **Contact:** For warranty claims, technical assistance, or any inquiries, please contact maXpeedingrods customer service through their official channels or the retailer where the product was purchased.

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