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maXpeedingrods LV12IF

maXpeedingrods 7500 lbs Rear Air Suspension Bags Kit User Manual

Model: LV12IF

1. Product Overview

The maXpeedingrods 7500 lbs Rear Air Suspension Bags Kit is designed to enhance the stability and comfort of your vehicle, particularly when hauling or towing heavy loads. This kit helps to reduce wear and tear on your suspension, eliminate squat, minimize trailer sway, and prevent bottoming out. It offers up to 7,500 pounds of load leveling capability and is air adjustable from 5 to 100 PSI, allowing for customization based on road conditions and load requirements.

Image 1.1: Overview of the maXpeedingrods Air Suspension Kit, showing the air bags, mounting hardware, air line, and installation manual.

2. Compatibility

This air suspension kit is specifically designed for the following vehicle models:

Make	Model	Drive	Year
For Ram	2500	2WD / 4WD	2014-2025

Important Notes:

- Fits all models including Power Wagon.
- Fits for vehicles with factory in-bed hitch and most side-mount fifth wheel hitches.

- **Not fit for vehicles equipped with factory air suspension.**

Image 2.1: Guide on vehicle modification compatibility. Shows that if the rear is lifted, a spacer may be needed. If the front is lifted, it will fit. If both front and rear are lowered, it will not fit.

3. Package Contents

Please verify that all components listed below are present in your package before beginning installation:

- Air Suspension Bags (2)
- Upper and Lower Mounting Brackets
- Roll Plates
- Air Line
- Hardware Kits (bolts, nuts, washers, zip ties, air line cutter)

- Installation Manual

Image 3.1: All components included in the air spring kit, neatly laid out for inspection.

4. Product Features and Components

The maXpeedingrods air suspension kit is engineered with durability and performance in mind:

- **Enhanced Durability:** Features ST12 steel end caps for structural integrity, Q235 steel mounting brackets, and Dacromat anti-rust bolts for superior corrosion resistance and long-lasting performance.
- **Multi-Ply Natural Rubber:** Air springs are constructed with a multi-ply design and unique rubber formulation, with a 4.5-5mm thickness to enhance load support capabilities.

Image 4.1: Detailed view of the air spring's durable construction, highlighting high-strength ST12 steel end caps, thicker rubber air sleeves, and multi-ply rubber structure.

Image 4.2: Close-up of the plastic-sprayed Q235 steel brackets and Dacromat anti-rust treated bolts, ensuring reliable and corrosion-resistant mounting.

5. Setup and Installation

Installation of the air suspension kit is designed to be a bolt-on process. While specific steps are detailed in the included installation manual, here are general guidelines and important considerations:

General Installation Steps:

1. Safely lift and support the vehicle according to manufacturer guidelines.
2. Remove existing suspension components as necessary.
3. Position the air bags and mounting brackets according to the vehicle-specific instructions.
4. Secure all bolts and fasteners to the specified torque settings.

5. Route the air lines, ensuring they are free from kinks and protected from heat or sharp edges.
6. Connect the air lines to the air bags and inflation valves.
7. Inflate the air bags to a low pressure (e.g., 5 PSI) and check for leaks.
8. Lower the vehicle and adjust air pressure as needed.

Image 5.1: Diagram illustrating the bolt-on installation process of the air spring onto the vehicle's chassis.

Preventing Leaks:

Proper air line preparation and connection are crucial to prevent leaks:

- Ensure the air line is cut cleanly and squarely, leaving a perfectly smooth and tight seal.
- Verify that the air line is properly placed and routed into the fittings.
- After installation, use a spray bottle filled with soap and water to spray down all fittings and the air bag itself. Bubbles indicate a leak, allowing for immediate identification and correction.

Image 5.2: Visual guide on how to prevent leaks, showing correct air line cuts and the soap-and-water leak detection method.

6. Operation

The air suspension kit allows for adjustable load leveling to optimize your vehicle's performance and ride quality:

Adjusting Air Pressure:

- The air springs are adjustable from 5 PSI (minimum recommended pressure for unloaded vehicle) to 100 PSI (maximum pressure for heavy loads).
- Adjust the air pressure based on the load being carried and the desired ride comfort. Higher loads typically require higher pressure.
- Always ensure both air bags are inflated to the same pressure to maintain even load distribution and vehicle stability.

Image 6.1: Illustration demonstrating the 7500 lbs load leveling capacity of the air springs.

Benefits of Adjustable Air Springs When Towing:

Utilizing the adjustable air springs provides several advantages:

- **Protects Cargo:** Maintains a level ride, preventing cargo from shifting or being damaged.
- **Prevents Unbalanced Loads:** Ensures even weight distribution across the vehicle's axles.
- **Reduces Bottoming Out:** Provides additional suspension support to prevent the vehicle from hitting its bump stops.
- **Keeps Headlights Level:** Prevents the front of the vehicle from rising, maintaining proper headlight aim.
- **Increases Ride Comfort:** Absorbs road imperfections more effectively.
- **Improves Steering Control and Braking:** A level vehicle handles more predictably.
- **Preserves Tires:** Even load distribution reduces uneven tire wear.
- **Eliminates Sag:** Restores the vehicle's original ride height when under load.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your air suspension system:

- **Check Air Pressure Regularly:** Periodically check the air pressure in your air bags, especially before and after towing or hauling. Adjust as needed.
- **Inspect for Leaks:** Annually, or if you notice a drop in pressure, perform a soap and water leak test on all fittings and the air bags.
- **Examine Air Lines:** Check air lines for any signs of wear, chafing, kinks, or damage. Ensure they are securely fastened and away from hot or moving parts.
- **Inspect Air Bags:** Visually inspect the air bags for cracks, tears, or signs of dry rot. Clean off any accumulated dirt or debris.
- **Check Mounting Hardware:** Periodically verify that all bolts and nuts are tight and secure.

8. Troubleshooting

If you encounter issues with your air suspension kit, consider the following common problems and solutions:

Loss of Air Pressure:

- **Symptom:** Air bag deflates or does not hold pressure.
- **Possible Cause:** Leak in air line, fitting, or air bag.
- **Solution:** Perform a soap and water leak test (refer to Section 5). Tighten fittings, repair/replace damaged air lines, or replace a faulty air bag.

Uneven Vehicle Height:

- **Symptom:** One side of the vehicle is lower than the other.
- **Possible Cause:** Unequal air pressure in air bags, or a leak on one side.
- **Solution:** Check and equalize air pressure in both air bags. If pressure continues to drop on one side, check for leaks on that side.

Poor Ride Quality:

- **Symptom:** Ride is too stiff or too soft.
- **Possible Cause:** Incorrect air pressure for the load.
- **Solution:** Adjust air pressure. Increase pressure for a stiffer ride or heavier loads; decrease pressure for a softer ride or lighter loads. Ensure pressure remains above the minimum recommended PSI.

9. Specifications

Specification	Value

Specification	Value
Brand	maXpeedingrods
Model Number	LV12IF
Load Leveling Capacity	Up to 7,500 lbs
Adjustable Air Pressure	5 to 100 PSI
Item Weight	37.5 pounds
Product Dimensions	17.99 x 13.03 x 11.38 inches
Manufacturer	maXpeedingrods

The product undergoes rigorous factory testing to ensure quality and reliability:

- **100% Airtightness Test:** Ensures no air leakage.
- **Fatigue Testing:** Over 5,000,000 cycles to ensure durability and longevity.
- **Burst Pressure:** Withstands pressures of ≥2.0MPa, indicating high compressive strength.

Image 9.1: Overview of the quality control process, including airtightness, fatigue, and burst pressure testing.

10. Warranty and Support

maXpeedingrods is committed to providing high-quality automotive parts. For any questions, technical assistance, or warranty claims regarding your air suspension kit, please contact maXpeedingrods customer support through their official channels or the retailer where the product was purchased. Please refer to your purchase documentation for specific warranty terms and conditions.

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