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## maXpeedingrods BE57SU

# maXpeedingrods 5000 lbs Air Suspension Bags Kit Installation Manual

Brand: maXpeedingrods | Model: BE57SU

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your maXpeedingrods 5000 lbs Air Suspension Bags Kit. This kit is designed to enhance the stability and comfort of your vehicle, particularly when hauling or towing heavy loads. Proper installation and adherence to safety guidelines are crucial for optimal performance and longevity of the product.

## 2. SAFETY INFORMATION

Always prioritize safety during installation and operation. It is recommended that installation be performed by qualified personnel. Failure to follow these instructions may result in property damage, personal injury, or product malfunction.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift before beginning any work.
- Never exceed the maximum recommended air pressure of 100 PSI or the minimum of 5 PSI.
- Do not operate the vehicle with deflated air springs.
- Regularly inspect the air springs and associated components for wear or damage.
- Ensure all connections are tight and free of leaks.

## 3. PACKAGE CONTENTS

Verify that all components listed below are present in your kit before beginning installation:

- Air Spring Bags (2)
- Upper Mounting Brackets (2)
- Lower Mounting Brackets (2)
- Roll Plates (2)
- Air Line
- Hose Clamps
- Heat Shield
- Hardware Kit (bolts, nuts, washers)
- Installation Manual

## PACKAGE CONTENTS



Upper and Lower mounting brackets



Roll plates

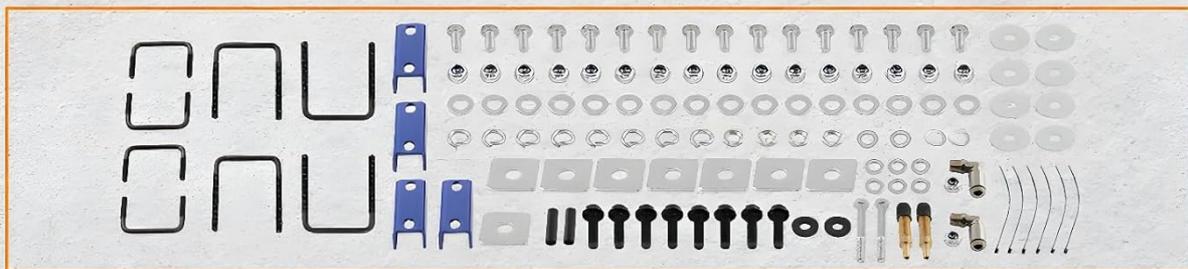


Air line



Air bags

Installation manual



Hardware kit

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Figure 3.1: This image displays the complete package contents: upper and lower mounting brackets, roll plates, air line, air bags, hardware kit, and the installation manual.

## 4. INSTALLATION GUIDE

This section outlines the steps for installing the maXpeedingrods Air Suspension Bags Kit. For a visual guide, please refer to the embedded video below.

Your browser does not support the video tag.

*Video 4.1: This video provides a detailed installation guide for the maXpeedingrods Air Helper Spring Kit for Dodge Ram 1500 models from 2009 to 2018. It covers assembling the air spring, removing the factory jounce bumper, installing brackets, and connecting the air lines.*

## 4.1. Pre-Installation Steps

1. **Prepare Vehicle:** Lift the vehicle to an appropriate height using a hoist or jack stands. Ensure the vehicle is stable and secure.
2. **Remove Rear Wheels:** Carefully remove the rear wheels to gain access to the suspension components.
3. **Remove Factory Jounce Bumper:** Locate and remove the factory jounce bumper. This may involve cutting welds and grinding the surface flat.
4. **Remove Shock Absorber:** Disconnect the lower bolt of the shock absorber to allow the suspension to drop, facilitating spring removal.
5. **Mark Spring Position:** Before removing the coil spring, mark its original position on the lower spring seat for correct reinstallation.
6. **Remove Coil Spring:** Carefully remove the factory coil spring.

## 4.2. Air Spring Assembly

1. **Assemble Air Spring:** Attach the upper and lower brackets to the air spring bag using the provided hardware. Ensure all bolts are tightened securely.
2. **Install Upper Bracket:** Position the upper bracket on the vehicle's frame. Use an indexing bolt to mark the drilling points for the remaining bolts.
3. **Drill Holes:** Using a 1/4-inch drill bit, drill the marked holes for the self-tapping screws that secure the upper bracket.
4. **Secure Upper Bracket:** Install the upper bracket to the frame using the self-tapping screws and tighten all hardware.

## 4.3. Air Spring Installation

1. **Install Coil Spring:** Reinstall the factory coil spring, aligning it with the marks made earlier.
2. **Install Air Spring Bag:** Place the assembled air spring bag into the coil spring.
3. **Bolt Lower Bracket:** Raise the axle to align the lower bracket with the mounting points and bolt it securely using the provided hardware.
4. **Install Heat Shield:** On the passenger side, install the heat shield around the exhaust pipe before connecting the air line to protect the air spring from excessive heat.

## 4.4. Air Line Connection

1. **Route Air Line:** Securely route the provided air line from the air spring bag through the vehicle's frame to the desired inflation valve location. Use hose clamps to secure the line.
2. **Install Inflation Valve:** Drill two holes (if not already present) in the rear bumper or a suitable location for the inflation valves. Install the inflation valves.
3. **Connect Air Line to Valves:** Measure and cut the air line to the appropriate length. Connect the air line to the inflation valves.
4. **Check for Leaks:** Inflate the air springs to approximately 50 PSI. Spray a soapy water solution on all connections and the air spring bags to check for air leaks. Bubbles indicate a leak.

## 4.5. Post-Installation

1. **Reinstall Wheels:** Reattach the rear wheels and tighten lug nuts to manufacturer specifications.
2. **Lower Vehicle:** Carefully lower the vehicle.

## 5. OPERATING INSTRUCTIONS

The maXpeedingrods Air Suspension Bags Kit allows for adjustable air pressure to optimize your vehicle's ride and load-carrying capabilities.

### 5.1. Air Pressure Adjustment

- **Minimum PSI:** Maintain a minimum of 5 PSI in the air springs at all times, even when unloaded, to prevent damage.
- **Maximum PSI:** Do not exceed 100 PSI.
- **Adjusting for Load:** Increase air pressure when carrying heavy loads or towing to level the vehicle, reduce squat, and improve handling. Decrease pressure when unloaded for a softer ride.
- **Monitoring:** Use a reliable air pressure gauge to monitor and adjust the air pressure accurately.

# ADJUSTABILITY

Air adjustable from 10 to 100 PSI



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Figure 5.1: The air springs are adjustable from 5 to 100 PSI, allowing users to customize the ride height and stiffness based on load conditions for optimal safety and comfort.

Your browser does not support the video tag.

Video 5.1: This video demonstrates the benefits of air bag suspension, showing how it helps maintain a level ride when towing, improving stability and comfort.

## 6. MAINTENANCE

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

- **Periodic Inspection:** Inspect the air springs, air lines, and all mounting hardware every 3 months or 5,000 miles for signs of wear, damage, or leaks.
- **Cleanliness:** Keep the air springs free from dirt, debris, and corrosive materials. Clean with mild soap and water if necessary.

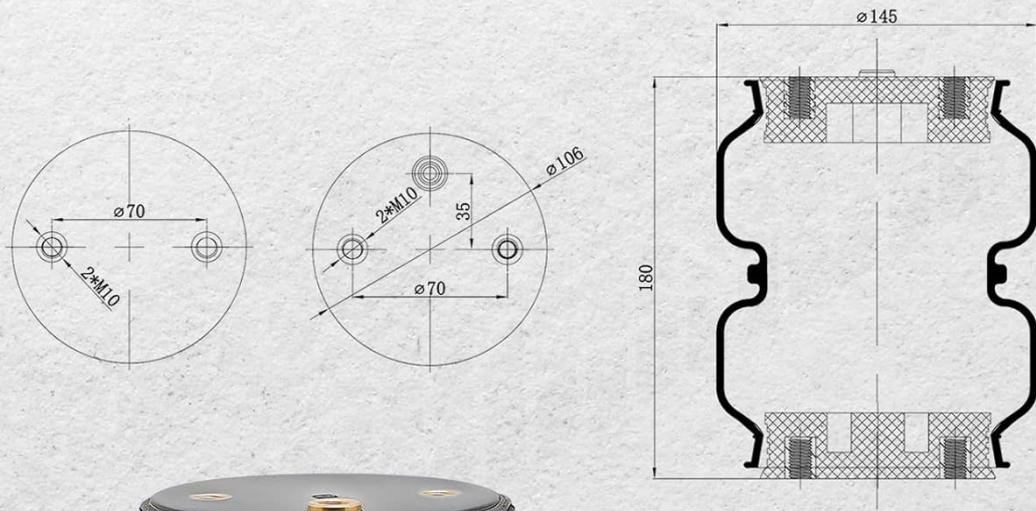
- **Air Pressure Check:** Check air pressure regularly, especially before and after hauling or towing.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Air spring loses pressure	Loose air line connection, damaged air line, punctured air bag	Check all connections for tightness. Inspect air lines for cuts or kinks. Check air bag for punctures (use soapy water). Replace damaged components.
Vehicle remains low after inflation	Insufficient air pressure, excessive load	Increase air pressure to recommended levels. Reduce load if it exceeds the kit's capacity.
Uneven ride height	Uneven air pressure in bags, uneven load distribution	Adjust air pressure in individual bags to level the vehicle. Redistribute load evenly.

## 8. SPECIFICATIONS

- **Load Capacity:** Up to 5,000 lbs
- **Adjustable Air Pressure:** 5 PSI (Minimum) to 100 PSI (Maximum)
- **Internal Jounce Bumper:** Included
- **Placement:** Rear left and right
- **Design Height:** 180 mm
- **Stroke:** 100 mm
- **Max. Extended:** 200 mm
- **Min. Compressed:** 100 mm
- **Material:** Multi-ply rubber with 4-4.5mm thickness



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Figure 8.1: Detailed view of the air spring bag, showing its design height of 180 mm, stroke of 100 mm, maximum extended length of 200 mm, and minimum compressed length of 100 mm.

# INTERNAL JOUNCE BUMPER

Prevent the abrupt bottoming-out of the suspension at full compression



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*Figure 8.2: This image highlights the internal jounce bumper designed to prevent bottoming-out of the suspension at full compression, enhancing durability and stability.*

# LOAD-LEVELING CAPACITY

UP TO  
**5000**  
LBS



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*Figure 8.3: The air suspension kit provides up to 5,000 lbs of load-leveling capability, crucial for maintaining vehicle stability and comfort when towing or hauling heavy loads.*

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please refer to the contact details provided with your purchase or visit the official [maxpeedingrods](https://www.maxpeedingrods.com) website. Keep your proof of purchase for warranty claims.