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› maXpeedingrods Suspension Enhancement Rear Kit User Manual

maXpeedingrods RA86HD

maXpeedingrods Suspension Enhancement Rear Kit User Manual

Model: RA86HD | Brand: maXpeedingrods

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your maXpeedingrods Suspension Enhancement Rear Kit. This rubber helper spring kit is designed to provide additional support for your vehicle's rear suspension, enhancing load handling and ride stability.



Image 1.1: maXpeedingrods Suspension Enhancement Rear Kit components and packaging.

The kit features hollow rubber springs that act as a progressive spring rate system, meaning the more weight applied, the harder the springs work to level your load. This design eliminates the need for air lines or compressors, simplifying installation and maintenance.

2. VEHICLE COMPATIBILITY

This suspension enhancement kit is compatible with the following vehicle models:

- For Dodge Ram 1500 2WD 4WD: 2002-2005
- For Dodge Ram 1500 Mega Cab 2WD 4WD: 2006-2008
- For Dodge Ram 2500 Laramie 2WD 4WD: 2003-2013
- For Dodge Ram 2500 Power Wagon 4WD: 2006-2013
- For Ram 2500 Tradesman 2WD 4WD: 2013

Compatible with The Following Models

Make	Model	Drive	Year	Trim
For Dodge	Ram 1500	2WD 4WD	2002–2005	/
	Ram 1500	2WD 4WD	2006–2008	Mega Cab
	Ram 2500	2WD 4WD	2003–2010	ST, STL, SXT, Laramie
	Ram 2500	4WD	2006–2013	Power Wagon
For Ram	2500	2WD 4WD	2011–2013	Laramie
	2500	2WD 4WD	2013	Tradesman

Image 2.1: Detailed compatibility chart for various Dodge Ram models and years.

3. KIT COMPONENTS

The maXpeedingrods Suspension Enhancement Rear Kit typically includes:

- Two (2) Rubber Helper Springs
- Mounting Hardware (specific to vehicle application)

Please inspect all components upon receipt to ensure no parts are missing or damaged.

Natural Rubber Construction

The more weight applied, the harder
the springs work to level your load



Progressive
spring rate



Self-damping
properties

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Image 3.1: A single rubber helper spring, highlighting its natural rubber construction and self-damping properties.

4. SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Adhere to the following guidelines:

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands before beginning any work. Never rely solely on a jack.
- Work in a well-lit and clear area.
- If you are unsure about any step of the installation process, consult a qualified mechanic.
- Do not exceed the vehicle's Gross Vehicle Weight Rating (GVWR) or the kit's maximum load capacity of 6,000 lbs.

5. INSTALLATION INSTRUCTIONS

The maXpeedingrods Suspension Enhancement Rear Kit is designed for straightforward installation, typically requiring only basic hand tools. No drilling or specialized equipment is needed as these springs are direct replacements for the original bump stops.



Image 5.1: Illustration of the quick and easy installation process, showing the helper spring integrated with the leaf spring assembly.

5.1. Preparation

1. Park the vehicle on a level, firm surface.
2. Engage the parking brake.
3. Loosen the lug nuts on the rear wheels.
4. Raise the rear of the vehicle using a floor jack and support it securely with jack stands under the frame.
5. Remove the rear wheels.
6. Locate the factory bump stops on the rear axle.

5.2. Removal of Factory Bump Stops

1. Depending on your vehicle model, the factory bump stops may be bolted or pressed into place. Remove them using appropriate tools (e.g., wrench, pry bar).
2. Clean the mounting area to ensure a proper fit for the new helper springs.

5.3. Installation of Helper Springs

1. Position the new maXpeedingrods rubber helper spring into the bump stop mounting location.
2. Align any mounting holes with the vehicle's frame or axle bracket.
3. Secure the helper spring using the provided hardware. Ensure all bolts are tightened to the manufacturer's specifications.
4. Repeat the process for the other side of the vehicle.



Image 5.2: Visual guide demonstrating the simple bolt-on installation of the helper springs without specialized tools.

5.4. Post-Installation

1. Reinstall the rear wheels and tighten lug nuts to the vehicle manufacturer's torque specifications.
2. Lower the vehicle carefully from the jack stands.
3. Perform a visual inspection to ensure all components are correctly installed and secured.
4. It is recommended to leave a ½" to 1½" gap between the rubber spring and the vehicle's frame when unloaded for optimal performance.

6. OPERATION AND BENEFITS

Once installed, the maXpeedingrods Suspension Enhancement Rear Kit operates automatically without any user intervention. The hollow rubber springs provide a progressive spring rate, meaning they adapt to the load placed on the vehicle.

- **Automatic Leveling:** The springs automatically adjust when riding on uneven roads, helping to keep the vehicle level at all times, whether loaded or unloaded.
- **Enhanced Load Support:** Provides up to 6,000 lbs of additional support, significantly improving the vehicle's ability to handle heavy loads.
- **Improved Ride Comfort:** Each rubber spring works independently, contributing to a smoother and more stable

ride, especially when hauling off-center loads.

- **Reduced Sag and Sway:** Minimizes rear-end sag and body roll, leading to improved stability and control.

Excellent Performance After Replacing



Enhanced ride
comfort



Improved load
handling



Decreased
trailer sway



Reduced sag
and sway



Improved stability



Silent operation

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Image 6.1: Visual representation of the performance benefits after installing the suspension enhancement kit.

7. MAINTENANCE

The maXpeedingrods Suspension Enhancement Rear Kit is designed to be largely maintenance-free due to its robust rubber construction and passive operation.

- **No Air Leaks:** Unlike air springs, these hollow rubber springs do not require air pressure, eliminating concerns about air leaks and the need for air line maintenance.
- **Periodic Inspection:** It is recommended to periodically inspect the rubber springs for any signs of wear, cracking, or damage. Check that all mounting hardware remains secure.
- **Cleaning:** Clean the springs as needed with mild soap and water to remove dirt and debris.

Maintenance Free

No air leaks as there's no need
to run air line



Hollow design

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Image 7.1: The maintenance-free design of the rubber helper springs, highlighting their hollow construction.

8. TROUBLESHOOTING

If you experience issues with your vehicle's suspension after installing the kit, consider the following:

8.1. Common Symptoms and Solutions

- **Excessive Sag or Bottoming Out:**
 - Ensure the vehicle's load does not exceed the kit's 6,000 lbs capacity or the vehicle's GVWR.
 - Verify that the springs are correctly installed and securely fastened.
 - Inspect the springs for any visible damage or degradation.
- **Increased Body Roll or Trailer Sway:**
 - Confirm that both helper springs are installed and functioning correctly.

- Check for uneven loading of the vehicle.

- **Unusual Noises:**

- Re-check all mounting hardware for proper torque.
- Ensure there is no interference between the springs and other suspension components.



Image 8.1: Common vehicle symptoms that indicate a need for suspension enhancement or inspection.

If problems persist after troubleshooting, contact maXpeedingrods customer support for further assistance.

9. SPECIFICATIONS

Feature	Specification
Product Name	Suspension Enhancement Rear Kit
Brand	maXpeedingrods
Model Number	RA86HD
Load Capacity	Up to 6,000 lbs
Material	Natural Rubber
Installation Type	Direct replacement for bump stops, bolt-on
Drilling Required	No
Air Lines/Compressor Needed	No
Item Weight	10.8 pounds
Product Dimensions	13.39 x 9.06 x 5.91 inches

Load Capacity

UP TO
6,000
LBS



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Image 9.1: The load capacity of the maXpeedingrods rubber helper springs.

10. WARRANTY AND SUPPORT

maXpeedingrods is committed to providing high-quality automotive parts. For specific warranty details, please refer to the warranty information provided with your purchase or visit the official maXpeedingrods website.

For technical support, installation assistance, or any product-related inquiries, please contact maXpeedingrods customer service. When contacting support, please have your product model number (RA86HD) and purchase information readily available.

Buy With Confidence

As a seller and manufacturer, maXpeedingrods has been tirelessly researching and producing high-performance auto parts.



Thorough
quality control
standard



Innovative
Technology



Experienced
Engineers
and Skilled
Technicians

Image 10.1: maXpeedingrods commitment to quality and customer support.