

SSR-313-54

Generic SSR-313-54 Suspension Air Helper Spring Kit Instruction Manual

For Ram ProMaster 1500/2500/3500 (2003-2021)

1. INTRODUCTION

This manual provides detailed instructions for the installation and use of the Generic SSR-313-54 Suspension Air Helper Spring Kit. This kit is designed to enhance the rear suspension of compatible Ram ProMaster vehicles, improving stability and load-carrying capabilities.

2. PACKAGE CONTENTS

- 2 x Suspension Air Helper Springs
- 2 x Screws

Please verify all components are present before beginning installation.

3. COMPATIBILITY

This suspension air helper spring kit (replaces part number SSR-313-54) is compatible with the following Ram ProMaster models:

- Ram ProMaster 1500 (2003-2021)
- Ram ProMaster 2500 (2003-2021)
- Ram ProMaster 3500 (2003-2021)

4. FEATURES

- **Material:** Yellow urethane with -54 density, designed to trap a smaller amount of air for a stronger air spring suitable for medium and heavy-duty applications.
- **Design:** One-piece units attached on one side, serving as a replacement/upgrade to factory bump stops. When attached on top and bottom, allows up to 50 percent expansion of original body height.
- **Flexibility:** Two-piece units attached on top and bottom using separate male and female pieces allow unlimited travel.

5. INSTALLATION GUIDE

Safety First: Always ensure the vehicle is securely supported on jack stands before working underneath. Wear appropriate personal protective equipment.

5.1. Preparing the Suspension Air Helper Springs

1. The air helper springs come with two pucks. For some applications, it may be necessary to remove one puck to achieve the desired rigidity. To do this, use a 17mm extension socket to loosen the nut inside the spring.

Your browser does not support the video tag.

Video: Demonstrates how to adjust the spring length by removing a puck. This video is from SuperSprings International Inc., a seller of similar products, and provides relevant visual guidance for adjusting the spring length.

2. Remove the extra puck and re-tighten the nut with the remaining puck. Do not use threadlocker on this nut, as it may need to be adjusted again in the future.



Image: Two new yellow and black suspension air helper springs, along with two screws, ready for installation.

5.2. Rear Suspension Installation

1. **Remove Existing Bump Stops:** If your vehicle is empty, you may not need to jack it up. Otherwise, jack

up the rear of the vehicle and support it safely. Use a screwdriver and hammer to carefully remove the existing bump stops. Ensure not to damage any brake lines or other components.



Remove the factory-made springs



Put our springs there to see
how much space need

Image: A person using a screwdriver and hammer to remove a red factory-made spring from the vehicle's undercarriage.

2. **Apply Threadlocker:** Apply the provided threadlocker to the threads of the new suspension air helper springs.

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Video: Shows the process of applying threadlocker to the new spring and installing it. This video is from SuperSprings International Inc., a seller of similar products, and provides relevant visual guidance for the installation process.

3. **Install New Springs:** Carefully screw the new suspension air helper springs into place. Ensure they are tightened securely. Once installed, lower the vehicle.

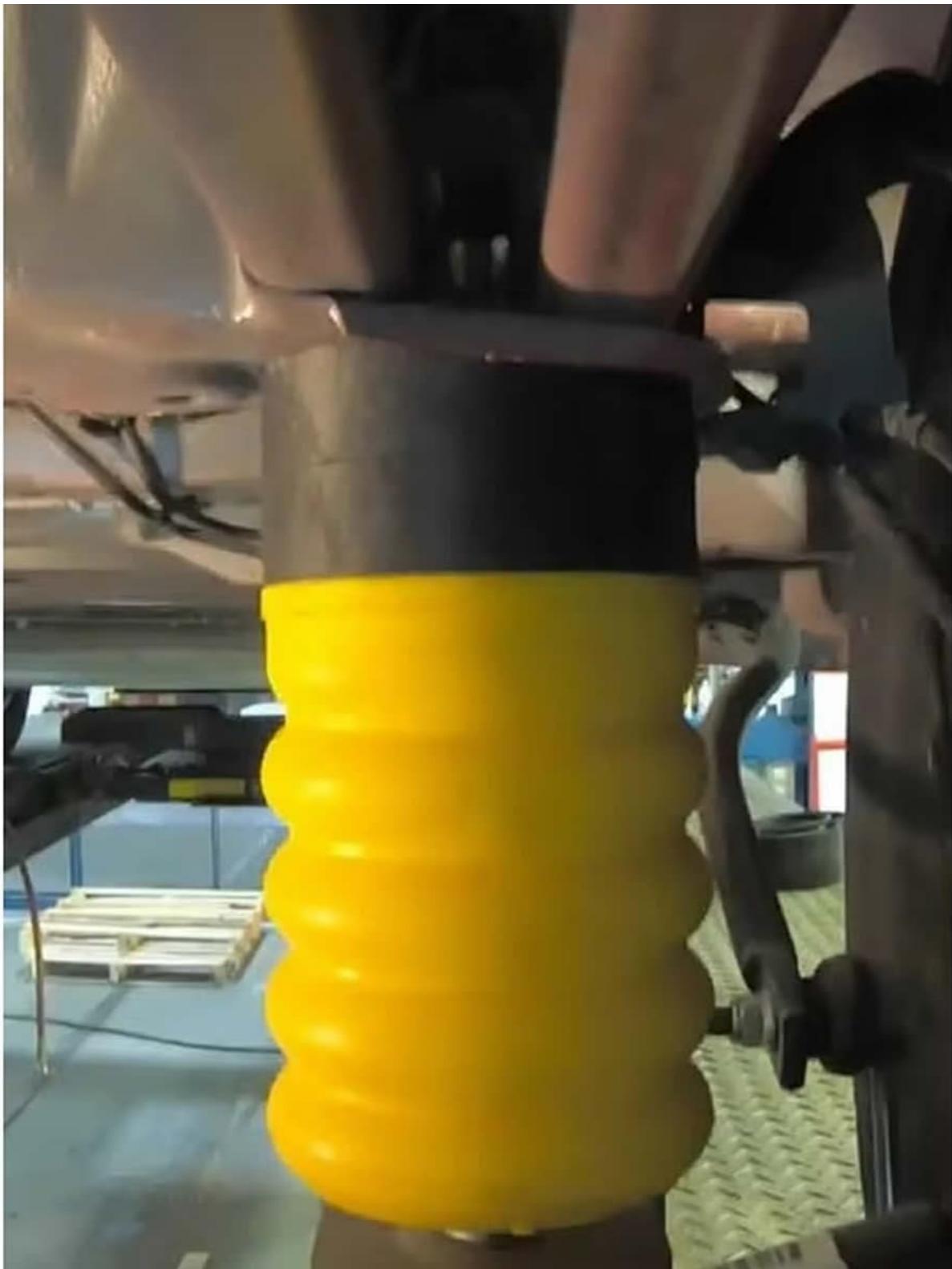


Image: A yellow and black suspension air helper spring installed on the rear suspension of a vehicle.

5.3. Front Suspension Installation (General Guidance)

While this kit is primarily for rear suspension, general steps for front suspension work often involve:

- 1. Vehicle Preparation:** Securely jack up the front of the vehicle and place it on jack stands. Chock the rear tires for added safety. Ensure the parking brake is engaged.

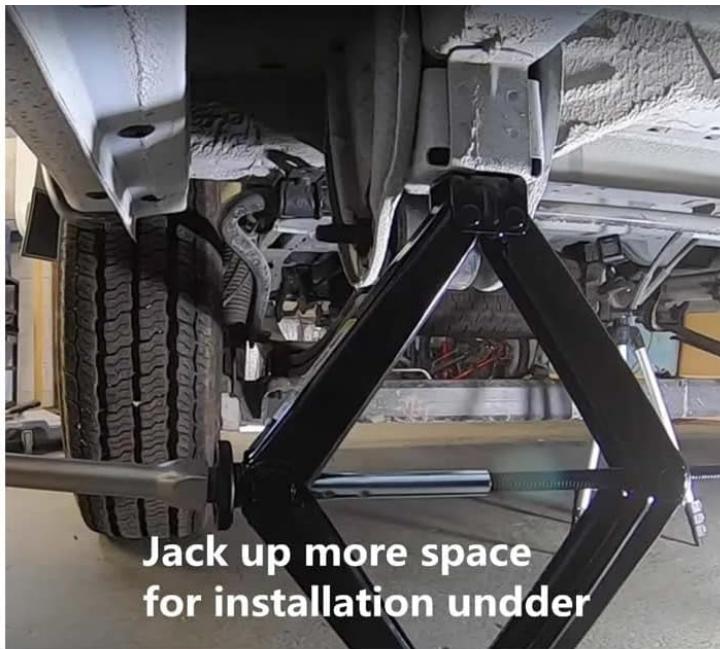


Image: The front end of a vehicle lifted by a jack and secured with jack stands, with the rear tires chocked.

2. **Clean Coil:** Wipe the coil spring with soapy water to remove grime and facilitate easier installation of any new components.



Image: A person cleaning a vehicle's coil spring with a wet paper towel, preparing it for new suspension components.

3. **Install Front Components:** If installing front suspension components, ensure proper alignment and secure fastening. Some components may require zip ties for initial positioning before final tightening.

Your browser does not support the video tag.

Video: Demonstrates the installation of front suspension components, including cleaning and positioning. This video is from SuperSprings International Inc., a seller of similar products, and provides relevant visual guidance for the installation process.

6. OPERATING

Once installed, the suspension air helper springs operate automatically to provide enhanced support and stability. No manual adjustments are typically required during normal operation.

7. MAINTENANCE

Regularly inspect the suspension air helper springs for any signs of wear, damage, or loose connections. Ensure the mounting hardware remains tight. Clean the springs periodically to prevent dirt and debris buildup.

8. TROUBLESHOOTING

- Excessive Stiffness:** If the ride feels too stiff, consider adjusting the number of pucks in the spring (if applicable to your model) or verifying the correct spring density for your load.
- Reduced Support:** Check for proper installation and ensure all mounting hardware is secure. Verify the springs are not damaged.

9. SPECIFICATIONS

Attribute	Value
Manufacturer	Beauty-Life
Brand	Generic
Model Number	BTL-SS04-31354 (Replaces SSR-313-54)
Item Weight	5.05 pounds
Package Dimensions	9.06 x 8.66 x 4.72 inches
Exterior	Machined
Date First Available	August 28, 2024

10. WARRANTY & SUPPORT

Information regarding warranty and customer support for this product is not provided in the available data. Please refer to the product packaging or contact the seller directly for details.