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SuperSprings SSR-114-54

SuperSprings SSR-114-54 SumoSprings Rear Instruction Manual

Model: SSR-114-54

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your SuperSprings SSR-114-54 SumoSprings Rear. These suspension products are designed to enhance your vehicle's load carrying ability, stabilize sway, and improve overall driver control and ride comfort. Please read these instructions thoroughly before proceeding with installation or use.

2. PRODUCT OVERVIEW

The SuperSprings SSR-114-54 SumoSprings are a patented suspension product manufactured from proprietary closed micro-cellular urethane. They are engineered to provide a smooth and progressive spring rate with superior damping properties.



Image 1: A pair of yellow SuperSprings SSR-114-54 SumoSprings Rear, shown with their black mounting brackets and hardware. These units are designed to be installed on the rear suspension of compatible vehicles.

Key Features:

- Sold as a pair (left and right) for balanced suspension enhancement.
- Maintenance-free design, eliminating the need for air lines or compressors.
- Enhances load carrying ability, supporting up to 2800 lbs. at 50% compression.
- Reduces and stabilizes vehicle sway for improved handling.
- Manufactured from proprietary closed micro-cellular urethane for durability and performance.

3. VEHICLE COMPATIBILITY

The SuperSprings SSR-114-54 SumoSprings Rear are specifically designed for the following vehicles:

- Ford F-250 Super Duty (1999-2016) 2WD
- Ford F-350 Super Duty (1999-2016) 2WD

Ensure your vehicle matches these specifications for proper fitment and optimal performance.

SSR-114-54



Vehicle Compatibility

1999-2016 F250/F350 Superduty 2WD



SuperSprings®

Image 2: An illustration showing a Ford F-Series Super Duty truck, indicating compatibility for 1999-2016 F250/F350 Superduty 2WD models with the SSR-114-54 SumoSprings.

4. INSTALLATION (SETUP)

Installation of the SumoSprings SSR-114-54 is designed to be straightforward. These units replace or upgrade existing factory bump stops.

General Installation Steps:

- Safety First:** Ensure the vehicle is safely supported on a level surface using appropriate jacks and jack stands. Engage the parking brake.
- Locate Factory Bump Stops:** Identify the existing bump stops on the rear suspension.
- Remove Old Bump Stops:** Carefully remove the factory bump stops. This may require specific tools depending on the vehicle model and condition of the existing components.
- Install SumoSprings:** Position the new SumoSprings SSR-114-54 units and secure them using the provided hardware. Ensure they are correctly aligned and tightened to manufacturer specifications.
- Verify Installation:** Double-check all connections and ensure the SumoSprings are securely mounted before lowering the vehicle.

Note: For detailed, vehicle-specific instructions, always refer to the official SuperSprings installation guide

provided with your product or available on the manufacturer's website. Professional installation is recommended if you are unfamiliar with vehicle suspension systems.



Designed for straightforward installation
with no special tools or ongoing
maintenance required.



Image 3: An image highlighting the design of SumoSprings for easy installation, suggesting no special tools or ongoing maintenance are required.

5. OPERATION

Once installed, the SumoSprings SSR-114-54 operate passively with your vehicle's existing suspension system. They engage as needed to provide additional support and stability.

- **Load Carrying:** As the vehicle's load increases, the SumoSprings compress, providing progressive resistance to prevent excessive squatting and maintain a level stance.
- **Sway Stabilization:** During turns or when encountering uneven road surfaces, the SumoSprings help to reduce body roll and improve vehicle stability.
- **Ride Comfort:** The proprietary micro-cellular urethane material absorbs road shock and vibrations, contributing to a smoother and more controlled ride, even when unloaded.



Works alongside existing suspension components to provide a smoother and more controlled ride.



Image 4: A visual representation of SumoSprings integrated with a vehicle's existing suspension components, illustrating how they work together to provide a smoother and more controlled ride.



Helps improve vehicle stability by minimizing sway, especially during turns or when carrying heavy loads.



Image 5: An image depicting how SumoSprings help improve vehicle stability by minimizing sway, particularly during turns or when carrying heavy loads.

6. MAINTENANCE

The SuperSprings SSR-114-54 SumoSprings are designed to be maintenance-free. They do not require air, nor do they leak air, eliminating the need for regular checks or adjustments associated with air bag systems.

Periodically inspect the SumoSprings and their mounting hardware for any signs of wear, damage, or loosening. Ensure that no debris is lodged around the units that could impede their function.



Made from tough, long-lasting materials
built to withstand harsh driving
conditions and heavy use.



Image 6: This image emphasizes that SumoSprings are made from tough, long-lasting materials designed to withstand harsh driving conditions and heavy use, contributing to their maintenance-free nature.

7. TROUBLESHOOTING

If you experience any issues after installing your SumoSprings, consider the following:

- **Reduced Performance:** Verify that the SumoSprings are correctly installed and securely fastened. Check for any obstructions or damage to the units.
- **Unusual Noises:** Inspect all mounting points for proper torque. Ensure no components are rubbing against each other.
- **Vehicle Sag:** Confirm that the load on the vehicle does not exceed the SumoSprings' capacity (2800 lbs. at 50% compression) or the vehicle's gross vehicle weight rating (GVWR).

If problems persist, contact SuperSprings customer support for assistance.

8. SPECIFICATIONS

| Feature | Specification |
|--------------|---------------|
| Model Number | SSR-114-54 |

| Feature | Specification |
|-----------------------------|--|
| Brand | SuperSprings |
| Load Capacity | 2800 lbs. at 50% compression |
| Material | Proprietary Closed Micro-Cellular Urethane |
| Color | Yellow |
| Item Dimensions (L x W x H) | 14 x 9 x 5 inches |
| Item Weight | 7.98 pounds (per pair) |
| Mounting Type | Hitch or U-Bolt (vehicle specific) |
| UPC | 814699006096 |

9. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation included with your purchase or visit the official SuperSprings website.

If you require technical assistance, have questions about installation, or need to report an issue, please contact SuperSprings customer support directly.

SuperSprings Contact Information:

Please visit www.supersprings.com for the most current support contact details.