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> Dorman 43-1851 Rear Leaf Spring Instruction Manual

Dorman 43-1851

Dorman 43-1851 Rear Leaf Spring Instruction Manual

Model: 43-1851 | Brand: Dorman

1. INTRODUCTION

This manual provides essential information for the Dorman 43-1851 Rear Leaf Spring. This component is designed as a direct replacement for original leaf springs on specific vehicles, ensuring proper fit and function. Leaf springs are critical for supporting the weight and payload of a vehicle or trailer, contributing significantly to suspension performance and passenger comfort. This product offers an ideal solution for replacing leaf springs that have been damaged by overloading, collision, cracking, or corrosion, or are simply due for replacement due to wear.

2. PRODUCT OVERVIEW

The Dorman 43-1851 Rear Leaf Spring is a durable component manufactured from quality materials to strict specifications. It is engineered to provide reliable performance and a long service life, reflecting Dorman's commitment as a premier aftermarket leaf spring provider.

2.1. What's Included

- 1 x Dorman 43-1851 Rear Leaf Spring

2.2. Product Features

- **Direct Replacement:** Designed to match the fit and function of original leaf springs.
- **Ideal Solution:** Replaces springs damaged by overloading, collision, cracking, or corrosion.
- **Durable Construction:** Made from quality materials for reliable performance and long service life.
- **Trustworthy Quality:** Engineered and manufactured by a leading aftermarket provider.



Figure 2.1: The Dorman 43-1851 Rear Leaf Spring, a direct replacement component for vehicle suspension systems.



Figure 2.2: Side view of the Dorman 43-1851 Rear Leaf Spring, showing its curvature and multi-leaf design.



Figure 2.3: Close-up view of the front eyelet and leaf pack of the Dorman 43-1851 Rear Leaf Spring, highlighting the robust construction.



Figure 2.4: Close-up view of the rear eyelet and leaf pack of the Dorman 43-1851 Rear Leaf Spring, showing the durable bushing and clamp design.

3. COMPATIBILITY AND FITMENT

To ensure this leaf spring fits your specific vehicle, it is essential to verify compatibility. This part is compatible with the following vehicles:

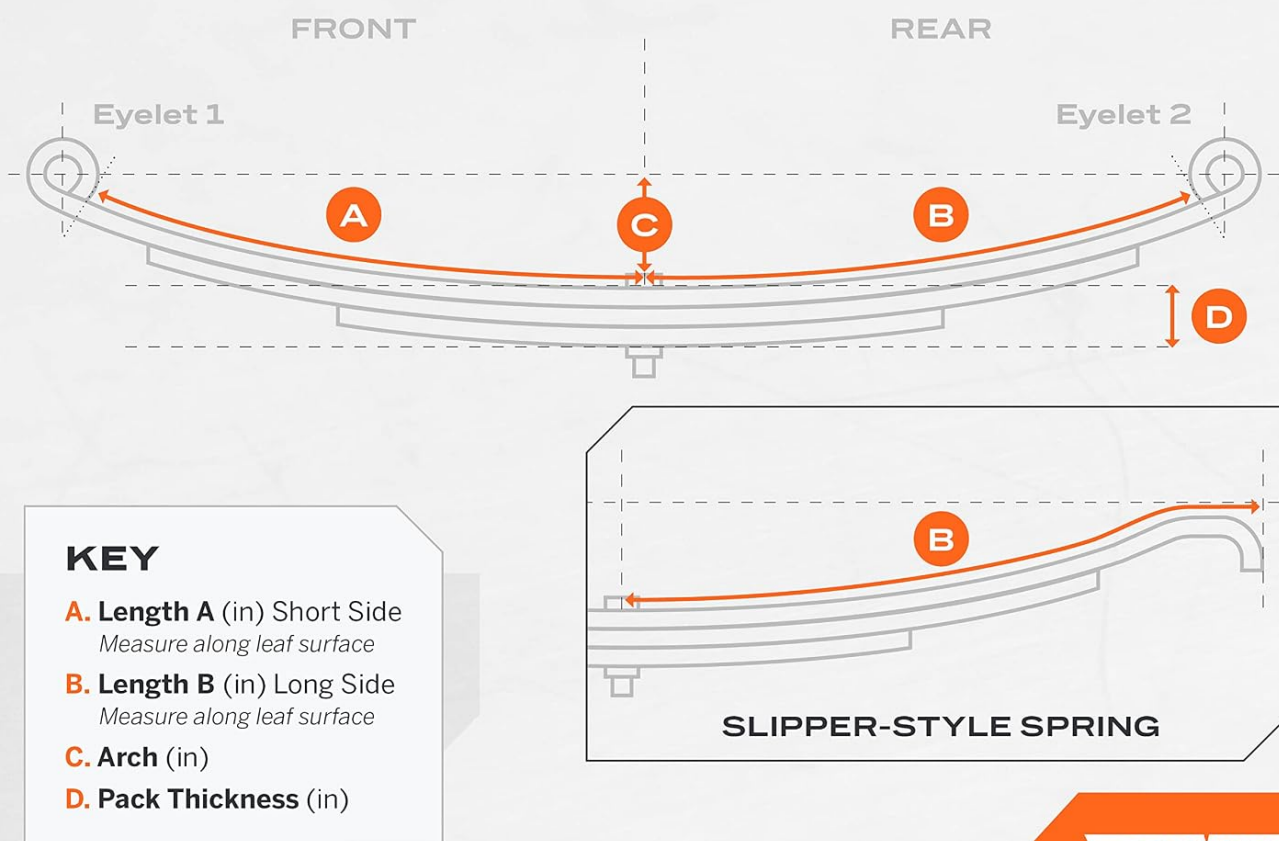
- **Ford F-250 Super Duty:** 2011, 2012, 2013, 2014, 2015, 2016

For precise fitment, it is recommended to use a vehicle compatibility tool or consult your vehicle's specifications. If the original equipment (OE) number of your spring is unavailable or vehicle application cannot be used, accurate measurements of the existing spring are necessary. Measurements should be taken on a relaxed spring, off the vehicle.

HOW TO MEASURE SPRINGS

Don't have the OE number of your original spring? Can't use vehicle application?

Use the following illustration to help obtain accurate measurements.
Take spring measurements on relaxed spring off the vehicle.



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Figure 3.1: Illustration detailing how to measure leaf springs, including Length A (short side), Length B (long side), Arch (C), and Pack Thickness (D). This diagram is crucial for selecting the correct replacement spring.

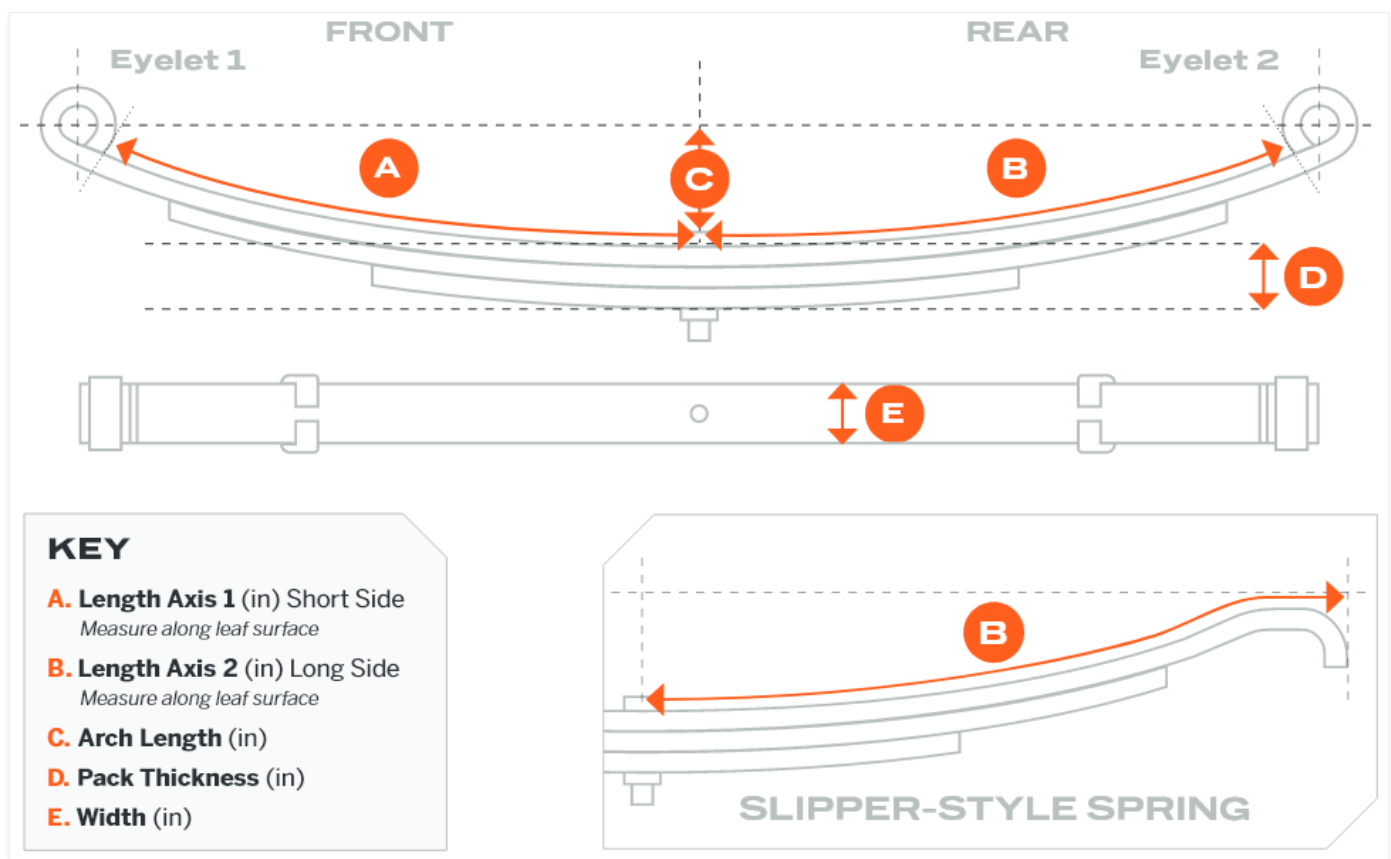


Figure 3.2: A more detailed diagram for measuring leaf springs, showing Length Axis 1 (short side), Length Axis 2 (long side), Arch Length, Pack Thickness, and Width. This ensures accurate selection for proper vehicle fitment.

4. INSTALLATION

Installation of automotive suspension components, including leaf springs, typically requires specialized tools and knowledge. It is highly recommended that installation be performed by a qualified automotive technician to ensure proper fitment, safety, and vehicle performance. Incorrect installation can lead to vehicle instability, premature wear of components, or safety hazards.

4.1. General Steps (Consult Service Manual for Specifics)

1. **Preparation:** Safely lift and support the vehicle using appropriate jacks and stands. Ensure the vehicle is stable.
2. **Removal of Old Spring:** Carefully unbolt and remove the existing leaf spring, noting the orientation and position of all components (U-bolts, shackles, hangers).
3. **Inspection:** Inspect surrounding components such as bushings, hangers, and shackles for wear or damage. Replace any worn parts as necessary.
4. **Installation of New Spring:** Position the new Dorman 43-1851 leaf spring, aligning it with the vehicle's mounting points. Install new U-bolts and other fasteners as required.
5. **Torque Specifications:** Tighten all bolts and nuts to the manufacturer's specified torque settings. Refer to your vehicle's service manual for precise values.
6. **Final Checks:** Lower the vehicle and perform a visual inspection to ensure all components are correctly installed and secured.

Always prioritize safety during any automotive repair. Wear appropriate personal protective equipment (PPE) and follow all safety guidelines.

5. MAINTENANCE

Proper maintenance can extend the life and performance of your Dorman 43-1851 Rear Leaf Spring and associated suspension components. Regular inspection is key.

- **Regular Inspection:** Periodically inspect the leaf springs for signs of wear, corrosion, cracks, or damage. Check for loose or missing U-bolts, shackles, and bushings.
- **Cleaning:** Keep the leaf springs free from excessive dirt, mud, and road salt, which can accelerate corrosion.
- **Lubrication:** While many modern leaf springs are designed to be maintenance-free, some designs may benefit from periodic lubrication of bushings or inter-leaf friction points. Consult your vehicle's service manual for specific recommendations.
- **Load Management:** Avoid consistently overloading your vehicle beyond its manufacturer-specified gross vehicle weight rating (GVWR), as this can prematurely wear out leaf springs and other suspension components.

6. TROUBLESHOOTING

If you experience issues with your vehicle's rear suspension after installing or while using the Dorman 43-1851 Rear Leaf Spring, consider the following common troubleshooting points:

- **Vehicle Sagging or Uneven Ride Height:**
 - Verify correct leaf spring part number and installation for your specific vehicle model and year.
 - Check for overloading of the vehicle.
 - Inspect for broken or fatigued leaves within the spring pack.
 - Ensure all mounting hardware (U-bolts, shackles) are properly torqued.
- **Excessive Noise (Squeaking, Clunking):**
 - Inspect bushings for wear or damage. Worn bushings can cause metal-on-metal contact.
 - Check for loose or improperly torqued fasteners.
 - Ensure there is no contact between the leaf spring and other vehicle components.
- **Poor Ride Quality (Harshness, Bounciness):**
 - Confirm the leaf spring is the correct type and rate for your vehicle's intended use (e.g., heavy-duty vs. standard).
 - Inspect shock absorbers, as they work in conjunction with leaf springs to control suspension movement.

For persistent issues or complex problems, it is advisable to consult a professional automotive technician.

7. SPECIFICATIONS

Attribute	Value
Manufacturer	Dorman Products
Brand	Dorman
Model	Dorman 43-1851
Item Weight	91.9 pounds
Product Dimensions	11 x 5 x 3.15 inches
Item Model Number	43-1851

Attribute	Value
Exterior	Ready To Paint If Needed
Manufacturer Part Number	43-1851
OEM Part Number	43-1851DAY; BC345560PB; BC3Z5560H
ASIN	B09HZJXP17
Date First Available	October 8, 2021

8. WARRANTY AND SUPPORT

Dorman products are known for their trustworthy quality, engineered and manufactured by a premier aftermarket leaf spring provider in the USA. For specific warranty information or technical support regarding the Dorman 43-1851 Rear Leaf Spring, please refer to the official Dorman website or contact Dorman customer service directly. Detailed warranty terms and conditions are typically available through the manufacturer's official channels.

For additional resources and product information, you may visit the [Dorman Store on Amazon](#).

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This manual is for informational purposes only. Always consult a qualified professional for vehicle repairs.

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Question

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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