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› Dorman 949-531 Rear Air Spring to Coil Spring Conversion Kit Instruction Manual

## Dorman 949-531



# Dorman 949-531 Rear Air Spring to Coil Spring Conversion Kit

Instruction Manual

## 1. PRODUCT OVERVIEW

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The Dorman 949-531 Rear Air Spring to Coil Spring Conversion Kit provides a reliable and cost-effective solution for vehicles with failing or problematic air suspension systems. This kit allows for the conversion from an original air suspension to a conventional coil spring suspension, ensuring a consistent and smooth ride without the complexities and maintenance costs associated with air systems.

This conversion kit is engineered to meet specific vehicle requirements, offering a direct fit and maintaining proper ride height and handling characteristics. It includes all necessary components for a complete and straightforward conversion.



*Image 1.1: The Dorman 949-531 kit includes two robust coil springs and two durable shocks, designed for a complete rear suspension conversion.*

## 2. VEHICLE COMPATIBILITY

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This Dorman 949-531 Rear Air Spring to Coil Spring Conversion Kit is specifically designed for compatibility with select Lincoln models. To ensure proper fitment for your vehicle, please verify your make, model, and trim level before installation.

### Compatible Vehicles:

- **Lincoln Town Car:** 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011

*Note: Always confirm fitment using a vehicle compatibility tool or by consulting a qualified automotive professional.*

## 3. KEY FEATURES

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- **Alternative Replacement:** This kit directly replaces the original air suspension system with a conventional, reliable suspension.
- **Cost-Saving Solution:** Provides an economical alternative to repairing or maintaining complex and expensive original air suspension components, especially beneficial for older vehicles.
- **Complete Kit:** Includes all necessary hardware and components required for a comprehensive conversion, simplifying the installation process.
- **Thoroughly Tested:** Components have undergone rigorous ride handling testing to ensure optimal performance, durability, and a comfortable ride.
- **Engineered for Fit:** Designed for precise fitment to specific vehicle models, ensuring correct ride height and alignment.



**INNOVATION**  
**YOU CAN**  
**COUNT ON**

**ACTIVE SUSPENSION**



**100%**  
**NEW**

*Image 3.1: Dorman's commitment to innovation is reflected in its range of active suspension components, ensuring quality and performance.*

## 4. WHAT'S IN THE BOX

The Dorman 949-531 Rear Air Spring to Coil Spring Conversion Kit typically includes the following components:

- 2 x Coil Springs
- 2 x Shocks

*Note: Additional small hardware (e.g., bolts, nuts, washers) may be included as part of the complete kit. Always refer to the packaging for a precise list of contents.*



Image 4.1: A closer look at the primary components: two coil springs and two shocks, ready for installation.

## 5. SETUP AND INSTALLATION

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Installation of the Dorman 949-531 Rear Air Spring to Coil Spring Conversion Kit involves replacing the existing air suspension components with the new coil springs and shocks. Due to the complexity of vehicle suspension systems and the need for specialized tools and knowledge, **professional installation by a certified mechanic is highly recommended.**

### General Installation Steps (Consult Service Manual for Details):

1. Safely lift and support the vehicle on a level surface.
2. Disconnect and remove the existing air suspension components (air springs, shocks, air lines, and potentially the air compressor/module).
3. Install the new Dorman coil springs and shocks according to the vehicle's service manual specifications. Ensure all mounting hardware is properly torqued.
4. Lower the vehicle and perform a final inspection to confirm correct installation and proper ride height.
5. It may be necessary to disable or bypass the air suspension control module to prevent error codes on the dashboard. Consult your vehicle's service manual or a qualified technician for specific instructions on disabling the air suspension system.

**Safety Precaution:** Always wear appropriate personal protective equipment (PPE) during installation. Ensure the vehicle is securely supported before working underneath it. Improper installation can lead to vehicle damage or personal injury.



Image 5.1: Example of a complete coilover assembly, similar to the components in the conversion kit.

## 6. OPERATING CHARACTERISTICS AFTER CONVERSION

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After converting from an air suspension to a conventional coil spring system, you may notice changes in your vehicle's ride characteristics. The Dorman 949-531 kit is designed to provide a comfortable and stable ride comparable to a factory coil spring setup.

- **Consistent Ride Height:** Unlike air suspensions that can sag or fluctuate, coil springs provide a fixed and consistent ride height.
- **Predictable Handling:** The vehicle's handling will become more predictable as the suspension no longer adjusts dynamically.
- **Reduced Maintenance:** The converted system eliminates the need for air compressor, air line, and air spring maintenance.

It is recommended to drive cautiously after installation to familiarize yourself with the new suspension feel. If any unusual noises or handling issues occur, consult a qualified mechanic immediately.

## 7. MAINTENANCE

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The Dorman 949-531 Coil Spring Conversion Kit requires minimal maintenance compared to an air suspension system. However, regular inspection of your vehicle's suspension components is always recommended as part of routine vehicle maintenance.

### Recommended Maintenance Checks:

- **Visual Inspection:** Periodically inspect the coil springs and shocks for any signs of damage, corrosion, or leaks (from shocks).
- **Mounting Points:** Check all mounting bolts and nuts for tightness, especially after the initial installation period.
- **Alignment:** After any suspension work, it is advisable to have a wheel alignment performed to ensure proper tire wear and vehicle handling.

## 8. TROUBLESHOOTING

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While the Dorman 949-531 conversion kit is designed for reliable performance, certain issues may arise. This section provides general troubleshooting tips. For complex issues, always consult a qualified automotive technician.

Problem	Possible Cause	Solution
Dashboard Warning Light (Air Suspension)	Air suspension control module still active or not properly bypassed/disabled.	Ensure the air suspension system is fully disabled or bypassed according to vehicle-specific instructions. This may require a specialized bypass module or reprogramming.
Unusual Noises (Clunking, Squeaking)	Loose mounting hardware, incorrect component seating, or damaged components.	Inspect all installation points for proper torque. Verify that springs and shocks are correctly seated. If noise persists, have a mechanic inspect for damaged parts.
Uneven Ride Height	Incorrect installation of components, or damaged new components.	Re-check installation of both sides. Ensure correct parts were installed on the correct side (if applicable). If issues persist, consult a professional.

## 9. PRODUCT SPECIFICATIONS

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Specification	Detail
Manufacturer	Dorman Products
Brand	Dorman
Model Number	949-531
Product Name	Rear Air Spring to Coil Spring Conversion Kit
Item Weight	27 pounds
Product Dimensions	19.5 x 14 x 7.25 inches
OEM Part Number Cross-Reference	41F-30-KIT; 4J-1010K; 65993C; 90003; C-2615; C2615; CK-7841WS
First Available Date	February 24, 2018

## 10. WARRANTY AND SUPPORT

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Dorman Products stands behind the quality and performance of its automotive parts. For specific warranty information regarding the 949-531 Rear Air Spring to Coil Spring Conversion Kit, please refer to the warranty documentation included with your purchase or visit the official Dorman Products website.

For technical assistance, installation questions, or to report any issues, please contact Dorman customer support. Dorman is committed to providing solutions and support for repair professionals and vehicle owners.

**Dorman Customer Support:** Please visit [www.dormanproducts.com](http://www.dormanproducts.com) for contact information and further resources.



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This manual is for informational purposes only. Always consult a qualified professional for installation and repair.