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Air Lift 59508

Air Lift 59508 RideControl Air Spring Kit Instruction Manual

For 1987-2002 Dodge Dakota RWD Models

1. Product Overview

The Air Lift 59508 RideControl Air Spring Kit is a suspension enhancement system designed to improve the ride quality and load-carrying capabilities of your vehicle. It prevents vehicle squat when transporting heavy loads, ensuring optimal stance and a smoother journey. This system offers air-adjustable settings from 5 to 100 PSI, providing up to 2,000 lbs. of load-leveling capacity.
Key benefits include:

- Eliminates vehicle squat, maintaining optimal stance.
- Reduces trailer sway for improved stability.
- Minimizes rough rides and bottoming out.
- Enhances steering, braking, and tire wear by ensuring proper weight distribution.
- Allows for customizable suspension settings for various loads and conditions.

2. Vehicle Compatibility

This RideControl kit, model number 59508, is specifically designed for and compatible with:

- **Vehicle:** 1987 to 2002 Dodge Dakota
- **Drive Type:** 2-wheel drive (RWD)
- **Requirement:** Requires a minimum of 6 inches of clearance between the tire and frame for proper installation and operation.

3. What's in the Box

The Air Lift 59508 RideControl kit includes all necessary components for installation:

- 2 Air springs
- Mounting Brackets
- All hardware needed for installation (bolts, washers, nuts, air lines, etc.)
- Fully-illustrated installation guide



Figure 1: Contents of the Air Lift 59508 RideControl kit, showing the air springs, mounting brackets, air lines, and various hardware components.

4. Installation Guide

This RideControl kit can typically be installed in approximately 2 hours. Please read the fully-illustrated installation

guide provided in your kit completely before proceeding.

General Steps:

1. **Preparation:** Unpack your kit and verify all required parts and tools are present.
2. **Vehicle Lift:** Raise the vehicle using a hoist or jack stands to allow access to the rear suspension. Remove the wheels.
3. **Bracket Installation:** Attach the upper bracket to the vehicle frame. Use the provided alignment tool to ensure correct positioning. Pay careful attention to the details provided in the installation manual for proper alignment and tightening.
4. **Air Spring Assembly:** Assemble the air spring components according to the manual.
5. **Air Spring Installation:** Position the assembled air spring between the leaf spring and the frame. Secure the lower bracket to the leaf spring using the U-bolts and other hardware.
6. **Air Line Routing:** Install and route the air lines from the air springs to a convenient inflation valve location (e.g., near the license plate or bumper). Ensure air lines are protected from heat, sharp edges, and moving parts.
7. **Final Tightening:** Once aligned, tighten all attachment bolts on the air spring and brackets to the specified torque values in the manual.
8. **Inflation:** Add air to your springs according to the pressure recommendations in the manual.





Figure 2: An Air Lift RideControl air spring installed on a vehicle's rear suspension, showing the air bag and mounting brackets.

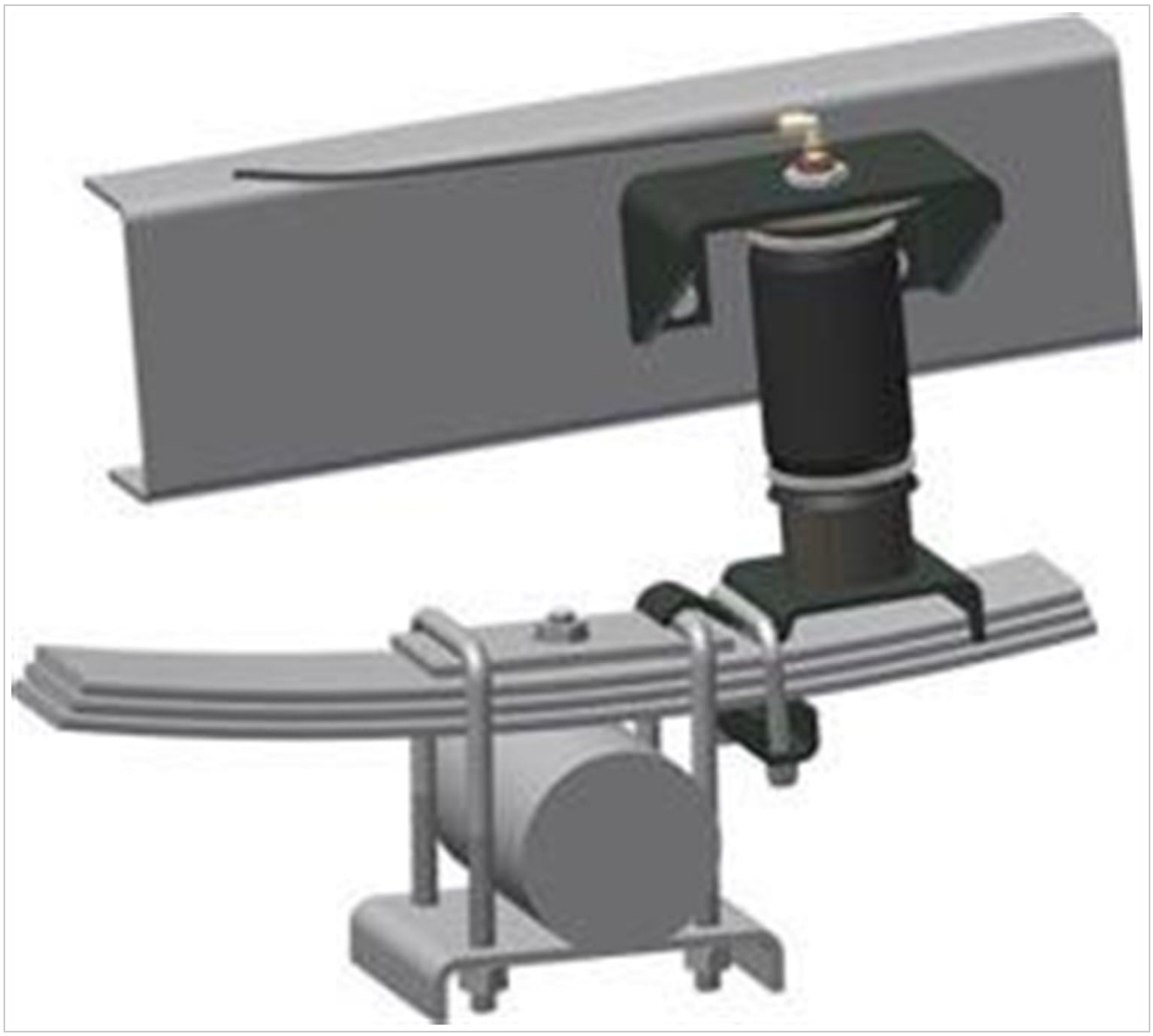


Figure 3: Detailed diagram illustrating the components and their placement during the installation of the RideControl kit on a leaf spring suspension.

Your browser does not support the video tag.

Video 1: This video demonstrates general installation steps for Air Lift air springs, including raising the vehicle, removing wheels, attaching brackets, and routing air lines. While the video may feature a different specific model, the core installation principles are applicable.

5. Operating Your RideControl System

The Air Lift RideControl system is air-adjustable, allowing you to customize your suspension for varying loads and driving conditions. You can adjust the air pressure from 5 to 100 PSI.

Adjusting Air Pressure:

- **When Hauling/Towing:** Increase air pressure to prevent vehicle squat, maintain proper headlight aim, and improve overall stability.
- **When Unloaded:** Reduce air pressure for a softer, more comfortable ride.

- **Onboard Air Compressor (Optional):** For maximum convenience, consider installing an Air Lift onboard air compressor system. This allows for quick adjustments to your vehicle's suspension for changes in load or road conditions, even while driving.

Your browser does not support the video tag.

Video 2: This video illustrates how Air Lift adjustable air springs help control trailer sag, demonstrating the benefits of maintaining a level vehicle when towing heavy loads.

6. Maintenance and Operations

To ensure optimal performance and longevity of your Air Lift RideControl system, adhere to the following pressure guidelines:

- **Minimum Air Pressure:** 5 p.s.i.
- **Maximum Air Pressure:** 100 p.s.i.

Always maintain correct minimum pressure (or pressure proportional to load). Bottoming out, over-extension, or rubbing against another component will void the warranty.

7. Troubleshooting Common Issues

The Air Lift RideControl system is designed to address and prevent several common suspension problems:

- **Sag:** Proper weight distribution to all tires improves steering, braking, and tire wear. Adjust air springs to accept the tongue weight of a trailer or other heavy loads.
- **Headlight Aim:** Level and stable vehicles provide safe and proper headlight aiming, critical for night driving safety.
- **Rough Ride:** Air Lift's progressive spring rate absorbs bumps, keeping tires on the road for better handling.
- **Bottoming Out:** Air Lift springs restore normal ride height when heavily loaded or towing, reducing suspension wear and eliminating crashing on bumps.
- **Sway and Body Roll:** Air springs increase spring rate and vastly improve vehicle stability. When towing, precise vehicle height adjustment reduces trailer sway.
- **Porpoising:** Progressive rate air springs dramatically reduce vertical bouncing in pickup trucks when towing heavy trailers, leading to a safer, more comfortable ride.

8. Product Specifications

Feature	Specification
Manufacturer	Air Lift

Model Number	59508
Item Weight	17 pounds
Manufacturer Part Number	59508
OEM Part Number	59508
Position	Rear
Load Leveling Capacity	Up to 2,000 pounds
Air Adjustable Range	5 to 100 PSI

9. Warranty and Support

Lifetime Warranty:

Air Lift Company warrants that the RideControl air spring system will be free from defects in workmanship or materials for the lifetime of the vehicle of original installation. This warranty does not cover installation or other service charges for replacement.

60-Day Ride Satisfaction Guarantee:

Air Lift guarantees your satisfaction with the improvement in road comfort and load handling. If you are not satisfied, you may remove the product and return it to your dealer for a full refund of your purchase price within the first 60 days after your purchase.

Customer Support:

Air Lift has a dedicated team of highly trained customer service representatives available five days a week to assist with product, order, or installation questions. For comprehensive information, support documents, and warranty registration, please visit the official Air Lift website.

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