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Air Lift 57410

Air Lift LoadLifter 5000 Air Suspension Kit (Model 57410) Instruction Manual

1. Introduction

The Air Lift LoadLifter 5000 Air Suspension Kit, Model 57410, is designed to enhance your vehicle's suspension by providing adjustable air helper springs. These springs work with your existing suspension to level your load, improve ride comfort, and increase stability when towing or hauling heavy loads. This manual provides essential information for the proper installation, operation, and maintenance of your air suspension kit.

Air Lift adjustable air helper springs are engineered to eliminate common issues such as vehicle sag, sway, and bottoming out. They are constructed with rugged, durable components for long-lasting, reliable service.



Figure 1.1: This diagram illustrates common vehicle suspension problems when loaded (sag, sway, bounce) and how Air Lift air springs provide a level solution.

2. Product Overview

The LoadLifter 5000 kit is one of Air Lift's heaviest-rated kits, offering up to 5,000 pounds of load-leveling capacity. The air springs

are adjustable from 5 to 100 PSI, allowing you to fine-tune your suspension for various load and road conditions. The kit features superior 2-ply fabric reinforced air springs, similar in construction to a tire, and ultra high-strength Zytel nylon end caps for durability and corrosion resistance.
Each kit includes exclusive upper and lower roll plates, which not only increase load capacity by 10 percent but also protect the air springs from sharp edges of brackets and other components.

2.1. Benefits of Air Springs:

Factory suspensions often balance ride comfort with load hauling capacity. Air springs offer a solution by allowing you to adjust your suspension for optimal performance under all load and road conditions. Key benefits include:

- **Eliminates Sag:** Improves steering, braking, and tire wear by maintaining proper weight distribution.
- **Corrects Headlight Aim:** Ensures safe and proper headlight aiming for night driving.
- **Reduces Rough Ride:** Progressive spring rate absorbs bumps, keeping tires on the road for better handling.
- **Prevents Bottoming Out:** Restores normal ride height when heavily loaded, reducing suspension wear.
- **Minimizes Sway and Body Roll:** Increases spring rate for improved vehicle stability, especially when towing.
- **Reduces Porpoising:** Dramatically decreases vertical bouncing when towing heavy trailers.



Figure 2.3: A single Air Lift LoadLifter 5000 air spring, designed for heavy-duty load support.



Figure 2.4: The complete Air Lift LoadLifter 5000 Air Suspension Kit, including two air springs, mounting brackets, hardware, and air lines.

3. Compatibility

This LoadLifter 5000 kit (Model 57410) is specifically designed to fit the **1998 to 2008 Ford F-53 Class "A" Motorhome**. Please note that this kit **does not fit 26,000 GVWR** models. Ensure your vehicle's specifications match these requirements before installation.

4. Installation

The LoadLifter 5000 kit is engineered for straightforward installation, typically taking around 2 hours. A fully illustrated instruction manual is included with your kit to guide you through each step. It is crucial to follow these instructions carefully to ensure proper function and safety.

4.1. Included Components:

- 2 Air springs
- All necessary mounting brackets
- All hardware needed for installation
- Fully-illustrated installation guide

4.2. General Installation Steps:

1. Review the included instruction manual thoroughly before beginning.
2. Gather all required tools and ensure all kit components are present.
3. Safely raise and support the vehicle using a hoist or jack stands.
4. Remove the wheels as necessary for access.
5. Follow the detailed steps in the manual for attaching mounting brackets and installing the air springs between the existing springs and the vehicle frame.
6. Route and secure the air lines according to the manual's diagrams.
7. Ensure all connections are tight and leak-free.
8. Lower the vehicle and inflate the air springs to the recommended minimum pressure.

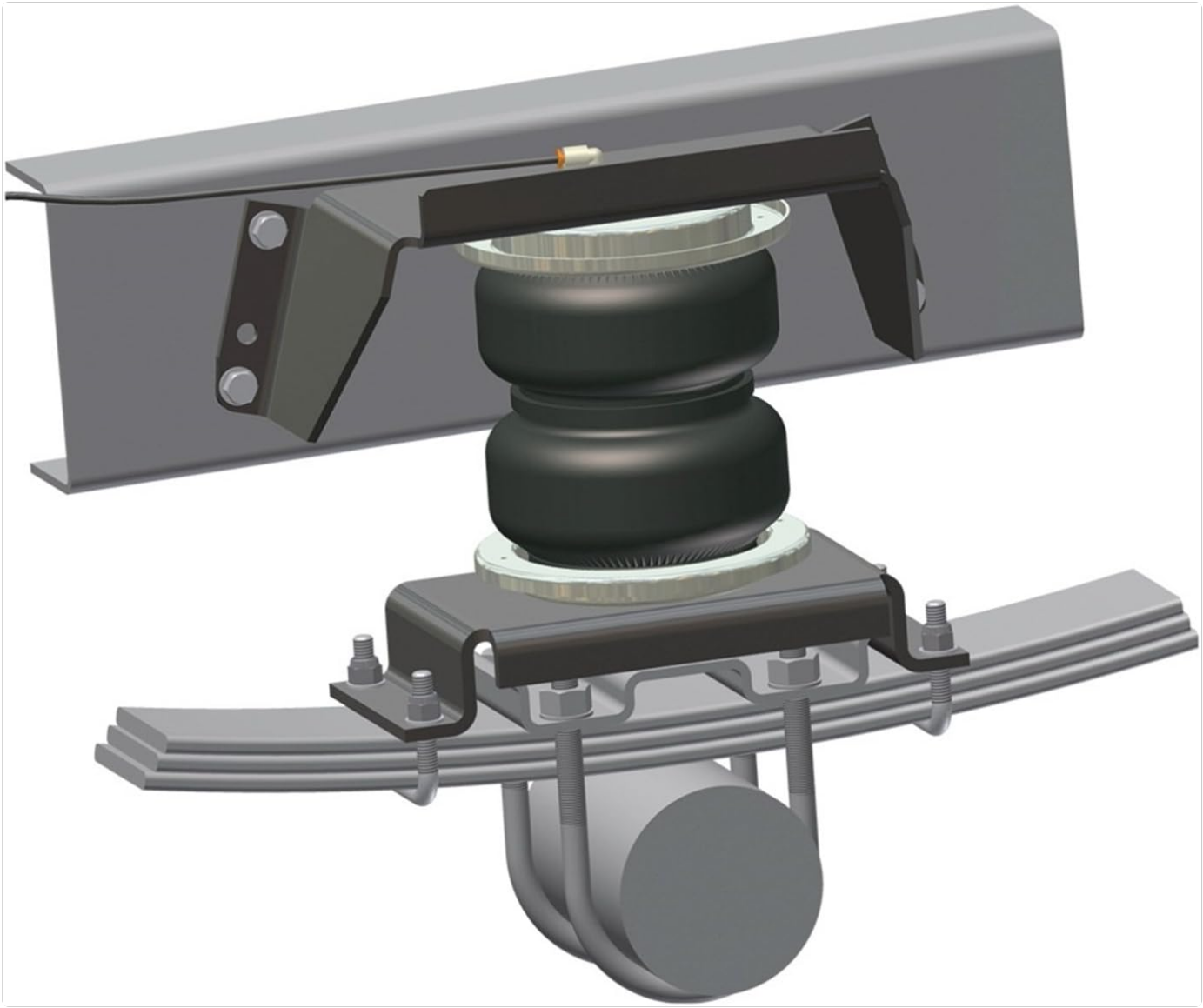


Figure 4.3: An Air Lift LoadLifter 5000 air spring installed between the vehicle's frame and leaf spring, illustrating its position in the suspension system.

5. Operation

Air Lift LoadLifter 5000 air springs are fully adjustable, allowing you to customize your vehicle's ride height and support based on your load. The air springs can be adjusted from 5 PSI (minimum unloaded pressure) to 100 PSI (maximum loaded pressure).

5.1. Adjusting Air Pressure:

- **When towing or hauling a heavy load:** Increase air pressure to level the vehicle, improve steering, braking, and tire wear, and reduce sag, sway, and bottoming out.
- **When unloaded:** Reduce air pressure for a softer, more comfortable ride. Always maintain a minimum of 5 PSI in the air springs.

Proper air pressure adjustment ensures optimal weight distribution, correct headlight aim, and a significant reduction in rough ride, bottoming out, sway, body roll, and porpoising.

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Video 5.1: This video demonstrates how Air Lift adjustable air springs help control trailer sag, ensuring a level and stable towing experience.

6. Maintenance

Regular inspection and maintenance of your Air Lift LoadLifter 5000 system will ensure its longevity and optimal performance. Check air pressure regularly, especially before and after towing or hauling. Inspect air lines and connections for any signs of wear or leaks. Keep the air springs clean from debris.
The durable construction of the air springs, including 2-ply fabric reinforcement and Zytel nylon end caps, is designed for long-term reliability. If you notice any issues, refer to the troubleshooting section or contact Air Lift support.

7. Troubleshooting

This section addresses common issues you might encounter with your Air Lift LoadLifter 5000 Air Suspension Kit. For more detailed troubleshooting, refer to the comprehensive guide included with your product.

7.1. Air Leakage:

- **Symptom:** Air springs lose pressure over time.
- **Possible Cause:** Loose air line connections, damaged air line, or a compromised air spring.
- **Solution:**
    a. Check all air line connections for tightness.
    b. Inspect air lines for cuts, kinks, or abrasions.
    c. Apply a soapy water solution to connections and the air spring surface to identify bubbles indicating a leak.
    d. Replace any damaged components.

7.2. Uneven Ride Height:

- **Symptom:** One side of the vehicle is lower than the other.
- **Possible Cause:** Unequal air pressure in the air springs, or a leak in one air spring system.
- **Solution:**
    a. Verify and adjust air pressure in each air spring independently to ensure they are equal.
    b. Check for leaks in the lower side's air spring system as described above.

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Video 7.1: This video provides detailed information on replacement bellows, which can be useful for maintenance and troubleshooting air spring issues.

8. Specifications

Brand	Air Lift
Model Number	57410
Set Name	LoadLifter 5000
Auto Part Position	Rear
Material	Alloy Steel
Load Leveling Capacity	Up to 5,000 pounds
Air Pressure Adjustment	5 to 100 PSI
Item Weight	39 pounds
UPC	729199574108

9. Warranty & Support

9.1. Lifetime Warranty:

Air Lift Company warrants that the LoadLifter 5000 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 parts.

9.2. 60-Day Ride Satisfaction Guarantee:

Air Lift offers an exclusive 60-day ride satisfaction guarantee. If you are not satisfied with the improvement in road comfort and load handling, 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.

9.3. Quality Assurance:

As of February 2007, Air Lift Company is ISO 9001:2000 certified, demonstrating a commitment to rigorous quality standards and continuous improvement in manufacturing suspension products that fit, work, and last.

10. Suggested Accessories

For enhanced convenience and on-the-go leveling, consider an Air Lift onboard air compressor system. These systems, available in automatic or dash-mounted configurations, allow for quick adjustments to your vehicle's air springs based on changes in load or road conditions. Air Lift compressor systems are compatible with all brands of air springs.

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Video 10.1: This video provides an overview of the Air Lift WirelessAir Advanced Remote Control, an accessory for convenient air spring adjustment.

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