

# Load**LIFTER** 5000™ **ULTIMATE**

ADJUSTABLE AIR HELPER SPRINGS

TOW AND HAUL WITH SAFETY AND COMFORT™



Kit Number  
**88298**

## INSTALLATION GUIDE

For maximum effectiveness and safety, please read these instructions completely before proceeding with installation.

*Failure to read these instructions can result in an incorrect installation.*





# TABLE OF CONTENTS

<b>Introduction</b> . . . . .	<b>2</b>
Important Safety Notice . . . . .	2
Notation Explanation . . . . .	2
<b>Installation Diagram</b> . . . . .	<b>3</b>
Hardware List . . . . .	3
Tools List . . . . .	4
<b>Installing the LoadLifter 5000 Ultimate System</b> . . . . .	<b>4</b>
Getting Started . . . . .	4
Raising the Vehicle . . . . .	5
Assembling the Air Spring . . . . .	5
Special Application Instructions . . . . .	6
Positioning the Brackets . . . . .	6
Attaching the Lower Bracket . . . . .	7
Attaching the Upper Bracket . . . . .	8
Checking the Air Spring Alignment . . . . .	8
Securing the Air Spring to the Brackets . . . . .	8
Installing the Air Lines . . . . .	9
Checking for Leaks . . . . .	10
Fixing Leaks . . . . .	10
<b>Before Operating</b> . . . . .	<b>11</b>
Installation Checklist . . . . .	11
Post-Installation Checklist . . . . .	11
<b>Product Use, Maintenance and Servicing</b> . . . . .	<b>12</b>
Minimum Recommended Pressure and Maximum Pressure . . . . .	12
Maintenance Guidelines . . . . .	12
Troubleshooting Guide . . . . .	12
Frequently Asked Questions . . . . .	13
Tuning the Air Pressure . . . . .	13
Guidelines for Adding Air . . . . .	14
<b>Choosing the Right On-Board Air Compressor System</b> . . . . .	<b>15</b>
<b>Limited Warranty and Return Policy</b> . . . . .	<b>16</b>
<b>Replacement Information</b> . . . . .	<b>17</b>
<b>Contact Information</b> . . . . .	<b>17</b>

# Introduction

The purpose of this publication is to assist with the installation, maintenance and troubleshooting of the LoadLifter 5000 Ultimate air spring kit. LoadLifter 5000 Ultimate utilizes sturdy, reinforced, commercial grade single or double, depending on the kit, convolute bellows. The bellows are manufactured like a tire with layers of rubber and cords that control growth. An internal jounce bumper inside the spring absorbs shock and eliminates harsh jarring on rough roads. The internal jounce bumper replaces the factory bumper and allows the air springs to safely be run at zero air pressure. LoadLifter 5000 Ultimate kits are recommended for most 3/4 and 1 ton pickups and SUVs with leaf springs and provide up to 5,000 lbs. of load leveling support with air adjustability from 5-100 PSI. The kits are used in motor home rear applications and various front applications where leaf springs are used.

It is important to read and understand the entire installation guide before beginning installation or performing any maintenance, service or repair. The information here includes a hardware list, tool list, step-by-step installation information, maintenance tips, safety information and a troubleshooting guide.

Air Lift Company reserves the right to make changes and improvements to its products and publications at any time. For the latest version of this manual, contact Air Lift Company at (800) 248-0892 or visit our website at [www.airliftcompany.com](http://www.airliftcompany.com).

## IMPORTANT SAFETY NOTICE

The installation of this kit does not alter the Gross Vehicle Weight Rating (GVWR) or payload of the vehicle. Check your vehicle's owner's manual and do not exceed the maximum load listed for your vehicle.

**Gross Vehicle Weight Rating:** The maximum allowable weight of the fully loaded vehicle (including passengers and cargo). This number — along with other weight limits, as well as tire, rim size and inflation pressure data — is shown on the vehicle's Safety Compliance Certification Label.

**Payload:** The combined, maximum allowable weight of cargo and passengers that the vehicle is designed to carry. Payload is GVWR minus the Base Curb Weight.

## NOTATION EXPLANATION

Hazard notations appear in various locations in this publication. Information which is highlighted by one of these notations must be observed to help minimize risk of personal injury or possible improper installation which may render the vehicle unsafe. Notes are used to help emphasize areas of procedural importance and provide helpful suggestions. The following definitions explain the use of these notations as they appear throughout this guide.

 **DANGER**

INDICATES IMMEDIATE HAZARDS WHICH WILL RESULT IN SEVERE PERSONAL INJURY OR DEATH.

 **WARNING**

INDICATES HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH.

 **CAUTION**

INDICATES HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN DAMAGE TO THE MACHINE OR MINOR PERSONAL INJURY.

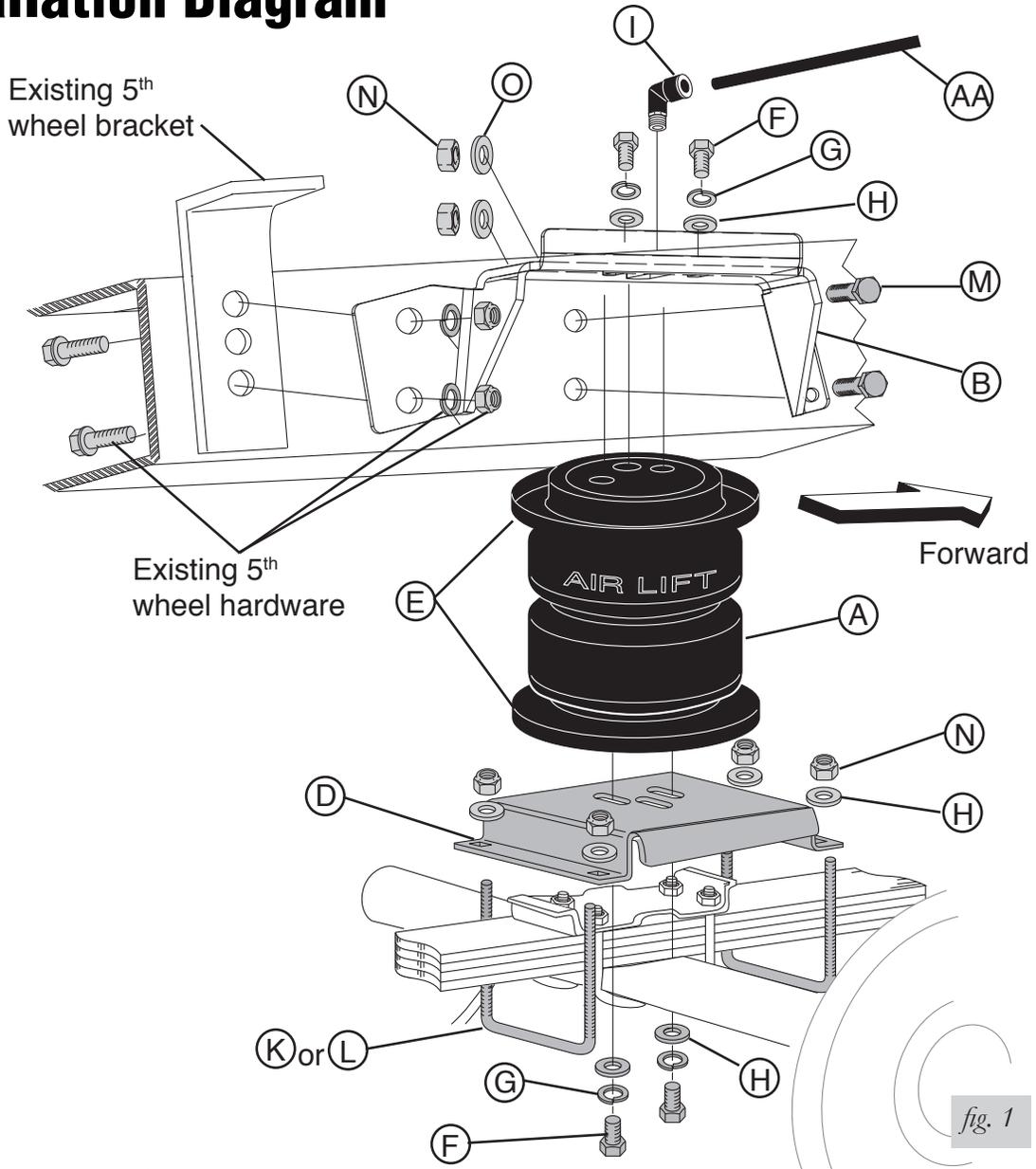
---

## NOTE

*Indicates a procedure, practice or hint which is important to highlight.*

---

# Installation Diagram



## HARDWARE LIST

Item	Part #	Description.....Qty	Item	Part #	Description.....Qty
A	58496	Air spring.....2	L	10594	2" U-bolt .....4
B	07478	Upper bracket right .....1	M	17159	3/8"-16 x 1.5" Bolt .....4
C	07479	Upper bracket left.....1	N	18435	3/8" Nyloc nut.....12
D	03102	Lower bracket .....2	O	18447	3/8" Large flat washer .....4
E	11967	Roll plate .....4	AA	20086	Air line assembly.....1
F	17203	3/8"-24 x 7/8" Bolt .....8	BB	10466	Tie strap .....6
G	18427	3/8" Lock washer.....8	CC	21230	Valve cap .....2
H	18444	3/8" Flat washer .....16	DD	18405	5/16" Flat washer .....2
I	21837	Elbow fitting.....2	EE	21234	Rubber washer.....2
J	01525	Optional spacer (not shown).....4	FF	18411	Star washer.....2
K	10583	4 1/2" U-bolt.....4	GG	21233	5/16" Hex nut .....4



Missing or damaged parts? Call Air Lift customer service at (800) 248-0892 for a replacement part.

## TOOLS LIST

<b>Description</b> .....	<b>Qty</b>	<b>Description</b> .....	<b>Qty</b>
Hoist or floor jacks.....	1	Crescent wrench.....	1
Safety stands.....	2	Ratchet with deep well sockets.....	1
Safety glasses.....	1	1/2", 3/8" and 5/16" drill bits (very sharp).....	2
Torque wrench.....	1	Heavy duty drill.....	1
Open-end or box wrench.....	1	Hose cutter, razor blade, or sharp knife.....	1

## Installing the LoadLifter 5000 Ultimate System

**IMPORTANT:** The air springs will last much longer if they are not limiting the suspension in either compression or extension. The air spring compresses to 2.8" and extends to 9.1". Regardless of load, the air pressure should always be adjusted so that the normal ride height is maintained at all times. The shock absorber is usually the limiter on extension. If this is not the case, the use of limiting straps should be considered, especially for those vehicles that are used off-road.

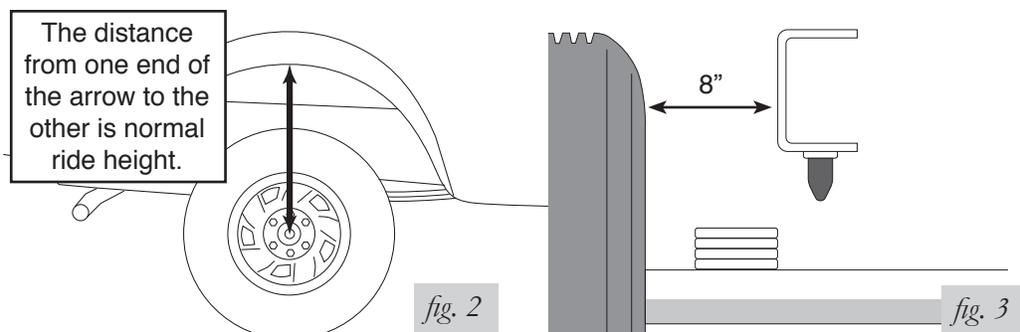
**IMPORTANT:** Your vehicle may be equipped with a rear brake proportioning valve. Any type of load assist product could affect brake performance. We recommend that you check with your dealer before installing this type of product. If your vehicle DOES NOT have a rear brake proportioning valve or is equipped with an anti-lock type brake system, installation of a load assist product will have NO EFFECT on brake system performance.

### DANGER

COMPRESSED AIR CAN CAUSE INJURY AND DAMAGE TO THE VEHICLE AND PARTS IF IT IS NOT HANDLED PROPERLY. FOR YOUR SAFETY, DO NOT TRY TO INFLATE THE AIR SPRINGS UNTIL THEY HAVE BEEN PROPERLY SECURED TO THE VEHICLE.

### GETTING STARTED

- Determine the normal ride height. The normal ride height is the distance between the bottom edge of the wheel-well and the center of the hub with the vehicle in the "as delivered" condition. In some cases, normal ride height is not perfectly level.
  - Remove unusual loads and examine your vehicle from the side to ensure it is on a level surface.
  - If necessary (in cases where your leaf springs are sagging badly), use a jack to raise the rear end so that the vehicle achieves the original "as delivered" ride height.
- Measure the distance between the center of the hub and the bottom edge of the wheel well (Fig. 2). This is the normal ride height.
- Measure the distance between the frame and the tire. This kit requires a minimum of 8" of clearance for a fully inflated air spring (Fig. 3).



## RAISING THE VEHICLE

1. Raise the vehicle and remove the wheels.
2. Check the distance between the center of the hub and the bottom edge of the wheel to ensure that it is at the normal ride height previously recorded. If not, raise the frame or lower the axle as necessary to restore the original distance.
  - a. If the vehicle is raised with an axle contact hoist, then place axle stands under the frame and lower the axle as needed.
  - b. If the vehicle is raised with a frame contact hoist, then place axle stands under the axle and raise or lower the frame as needed.
  - c. If the vehicle is raised with a jack and supported with axle stands on the frame, then use a floor jack to lower the axle.

## ASSEMBLING THE AIR SPRING

1. Set a roll plate on both ends of the air spring.

**NOTE**

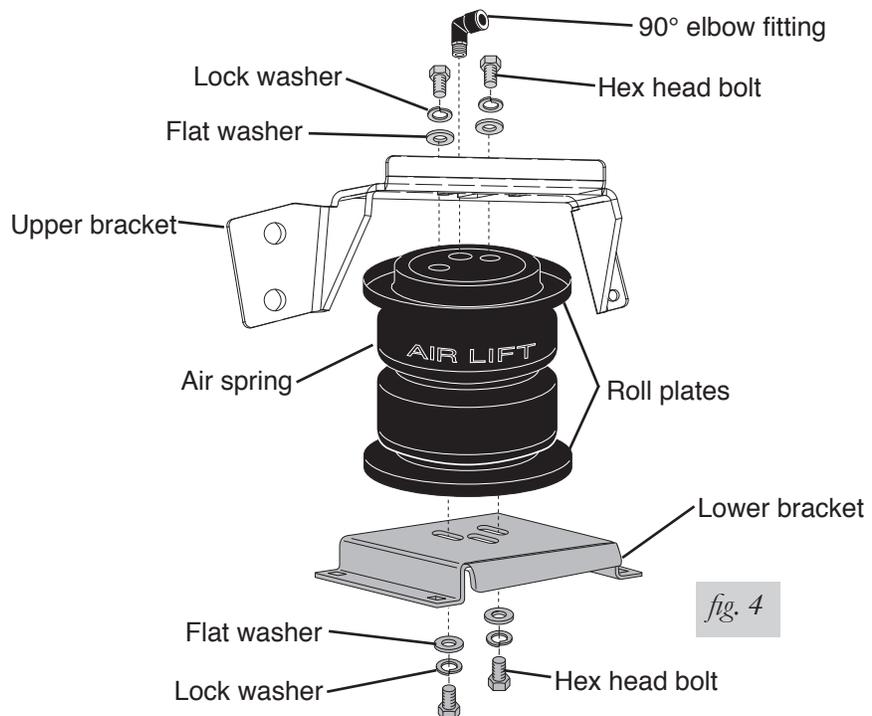
*The radiused (rounded) edge of the roll plate will be towards the air spring, so that the air spring is seated in both roll plates (Fig. 4)*

2. Install a 90° swivel air fitting finger tight plus 1 1/2 turns. Use a 7/16" open end wrench being careful to tighten on the metal hex nut only. **DO NOT OVERTIGHTEN.** This fitting is precoated with sealant.
3. Place the upper bracket onto the top of the bellows and hat with the legs facing down. Guide the swivel fitting through the large slotted hole in the center (Fig. 4).
4. Place the lower bracket on the air spring so that the flat edge of the lower bracket mounts toward the legs of the upper bracket (inboard) (Fig. 4).
5. Loosely attach the upper bracket to the assembly using flat washers, lock washers, and hex head bolts (Fig. 4).

**NOTE**

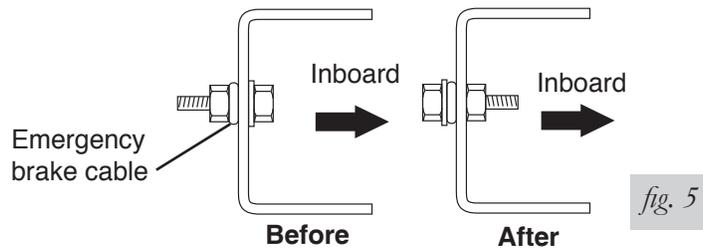
*Remember that the legs face down.*

6. Loosely attach the lower bracket to the assembly using flat washers, lock washers, and hex head bolts (Fig. 4).

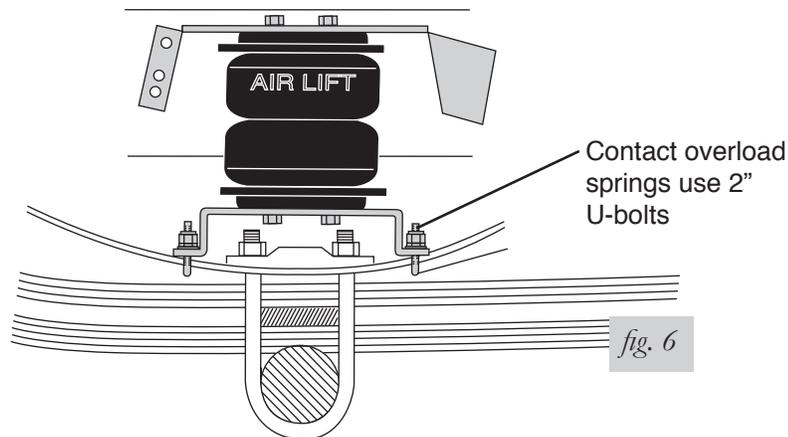


## SPECIAL APPLICATION INSTRUCTIONS

- For 1999 and later Super Duty F-250 and F-350 trucks, remove the bolt holding the emergency brake cable to the outside of the frame rail. Reinstall the bolt in the reverse order, with the nut on the inside of the frame rail to prevent rubbing against the air spring (Fig. 5).

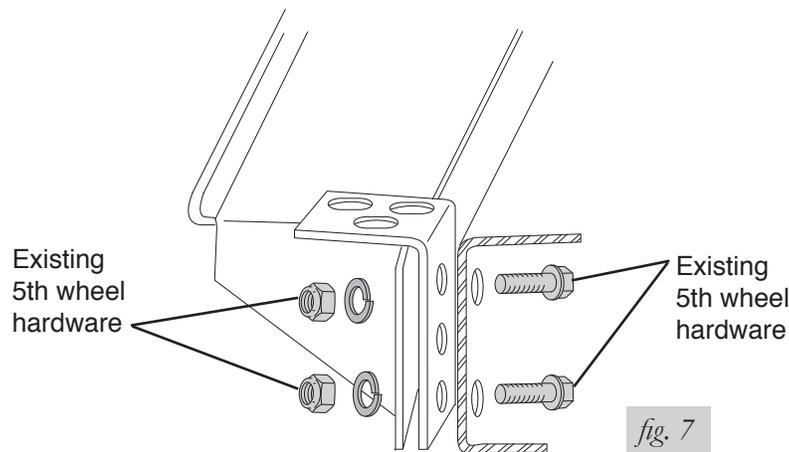


- Frame contact overload springs:
  - If the vehicle is equipped with factory frame contact overload springs, the lower bracket should be attached using the short U-bolts provided in this kit (Fig. 6).
  - If an unusually harsh ride is experienced, even at the minimum required pressure (5 PSI), then it may be helpful to remove the overload springs. This will not reduce carrying capacity. The difference will be made up by running the air spring at a higher pressure. It may be necessary to purchase different U-bolts or reuse the block spacer to hold the main leaf spring stack tight to the axle housing.

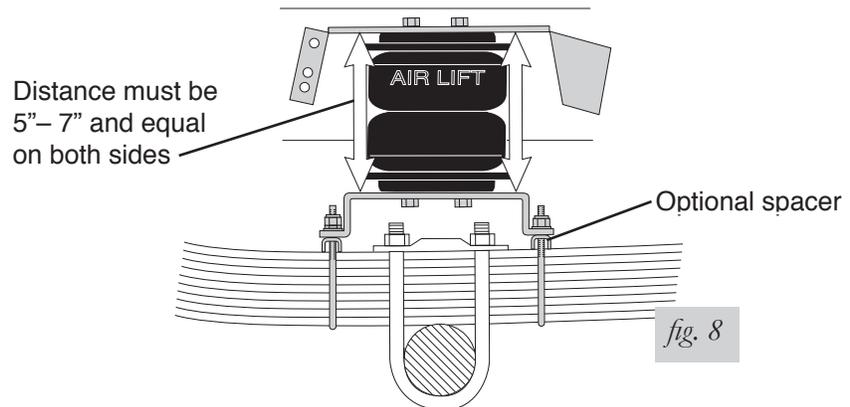


## POSITIONING THE BRACKETS

- Remove the rear 5<sup>th</sup> wheel hitch bolts that go through the web of the frame (Fig. 7). Keep for later use.



- The air spring must be installed between 5" and 7" from the upper bracket to the lower bracket (Fig. 8). It is best to position the upper bracket as high as possible, the taller the better.
- Set the air spring assembly on the leaf spring over the axle (Fig. 8).



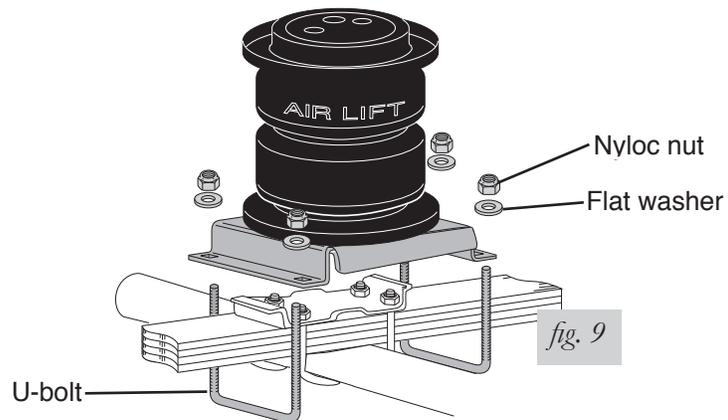
- Position the upper bracket so that the two forward bolt holes will be on the flat section of the frame rail. Keep the edge of drilled holes no closer than 3/4" from the top or bottom radius of the frame rail.
- In some cases it may be necessary to use the optional spacers to achieve the 5"– 7" space (Fig. 8). For example, if only the top hole makes contact above the lower radius edge of the frame rail, it may be necessary to use the optional spacers under the lower bracket to achieve mounting height.
- Push the upper bracket against the frame and 5<sup>th</sup> wheel bracket. Mark the existing holes, (used to hold the 5<sup>th</sup> wheel brackets to the frame), on the flat flange of the upper air spring bracket.
- Remove the assembly and drill two 1/2" holes through the upper bracket where the holes were marked.
- Set the assembly back on the leaf spring.

## ATTACHING THE LOWER BRACKET

- If the spacer is not used, then attach the lower bracket securely using the provided U-bolts, flat washers, and lock nuts (Fig. 9).

### NOTE

*Use shorter U-bolts when attaching to frame contact overload springs.*



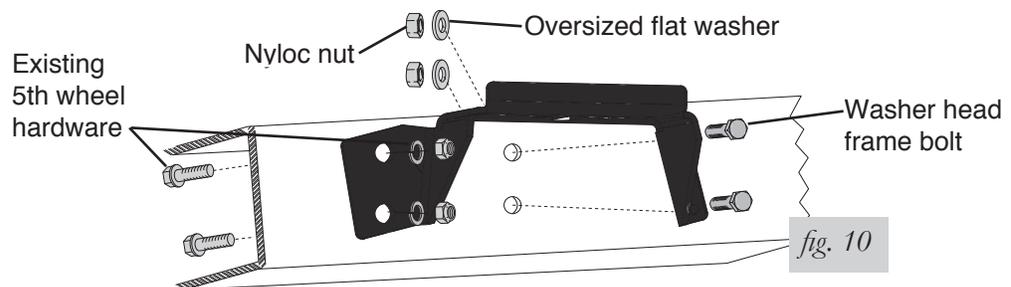
- If the spacer is used, then place the spacers legs down on the leaf spring and attach the lower bracket securely using the provided U-bolts, flat washers, and lock nuts (see Fig. 8).
- Be sure to align holes in upper bracket that were drilled to existing holes in the 5<sup>th</sup> wheel bracket. Torque U-bolt to 16 lb.-ft.

## ATTACHING THE UPPER BRACKET

1. There must be sufficient clearance between the air spring, the frame, the tire, and the brake drum when the air spring is at the maximum inflated diameter of 7.0”.
2. Insert the 5<sup>th</sup> wheel hitch bolts (previously removed) and attach the upper bracket with the existing hardware (see Fig. 1 & Fig. 10). Torque to 85 lb.-ft.
3. Using the upper bracket as a template, center punch and drill both 3/8” holes through the frame. Use the widest bolt hole pattern possible.
4. Install a washer head frame bolt, oversized flat washer, and lock nut (fig. 10). Torque 3/8” frame bolts to 44 lb.-ft.

## CHECKING THE AIR SPRING ALIGNMENT

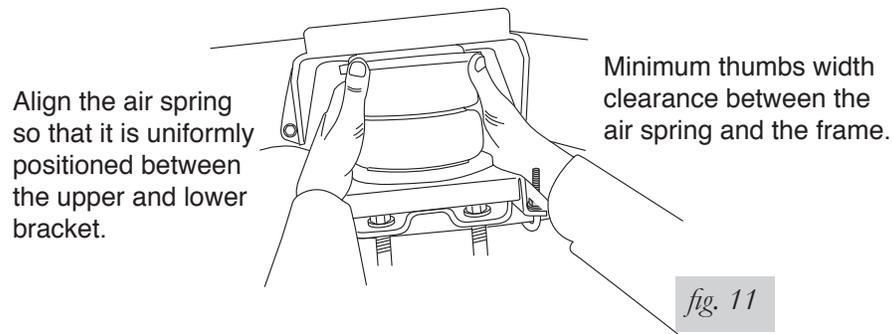
1. With the air spring still loose in the upper and lower brackets, align the air spring, both inboard and outboard using the slotted holes in the bracket so that it is uniformly positioned between the brackets (Fig. 11).



2. Maintain at least a thumbs width of clearance between the air spring and the frame (uninflated).

## SECURING THE AIR SPRING TO THE BRACKETS

1. Secure the air spring to the upper and lower brackets using an open ended 9/16” wrench by tightening the two bolts on the top and the two bolts on the bottom of the spring assembly.



2. Depending on the thickness of the leaf spring stack, it may be necessary to trim the tops of the U-bolts to prevent them from contacting the upper bracket in full jounce.
3. Repeat the entire installation procedure for remaining side.

## INSTALLING THE AIR LINES

1. Choose a convenient location for mounting the inflation valves. Popular locations for the inflation valve are:
  - a. The wheel well flanges.
  - b. License plate recess in bumper.
  - c. Under the gas cap access door.
  - d. Through license plate itself.

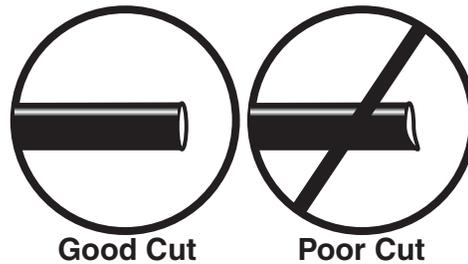
**NOTE**

*What ever the chosen location is, make sure there is enough clearance around the inflation valves for an air chuck.*

2. Drill a 5/16" hole to install the inflation valves.
3. Cut the air line assembly in two equal lengths.

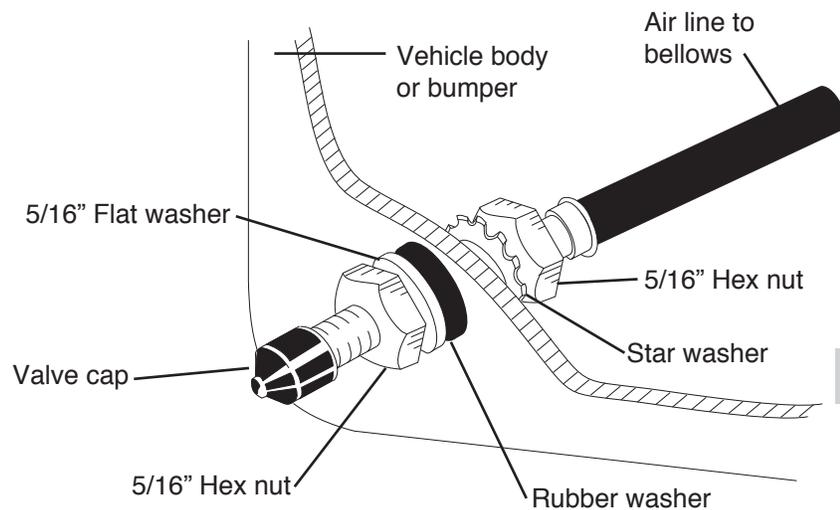
**CAUTION**

WHEN CUTTING OR TRIMMING THE AIR LINE, USE A HOSE CUTTER, A RAZOR BLADE OR A SHARP KNIFE. A CLEAN, SQUARE CUT WILL ENSURE AGAINST LEAKS. DO NOT USE WIRE CUTTERS OR SCISSORS TO CUT THE AIR LINE. THESE TOOLS MAY FLATTEN OR CRIMP THE AIR LINE, CAUSING IT TO LEAK AROUND THE O-RING SEAL INSIDE THE ELBOW FITTING (FIG. 12).



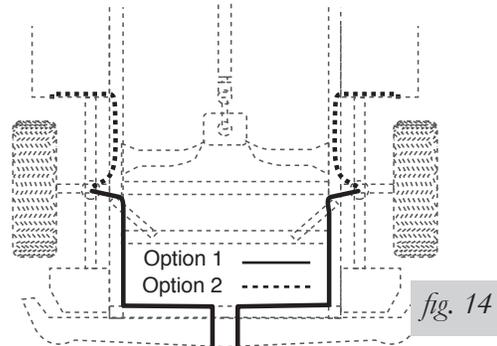
*fig. 12*

4. Place a 5/16" nut and a star washer on the air valve. Leave enough of the inflation valve in front of the nut to extend through the hole and have room for the rubber washer, flat washer, and 5/16" nut and cap. There should be enough valve exposed after installation - approximately 1/2" - to easily apply a pressure gauge or an air chuck.
5. Push the inflation valve through the hole and use the rubber washer, flat washer, and another 5/16" nut . Tighten the nuts to secure the assembly in place (Fig. 13).



*fig. 13*

- Route the air line along the frame to the air fitting on the air spring (Fig. 14). Keep AT LEAST 6" of clearance between the air line and heat sources, such as the exhaust pipes, muffler, or catalytic converter. Avoid sharp bends and edges. Use the plastic tie straps to secure the air line to fixed, non-moving points along the chassis. Be sure that the tie straps are tight, but do not pinch the air line. Leave at least 2" of slack to allow for any movement that might pull on the air line.



- On the passenger side only, place the provided thermal sleeve on the air line near the exhaust.
- Cut off air line leaving approximately 12" of extra air line. A clean square cut will ensure against leaks (see Fig. 12). Insert the air line into the air fitting. This is a push to connect fitting. Simply push the air line into the 90° swivel fitting until it bottoms out (9/16" of air line should be in the fitting).

## CHECKING FOR LEAKS

- Inflate the air spring to 30 PSI and spray all connections and the inflation valves with a solution of 1/5 liquid dish soap and 4/5 water to check for leaks. Spot leaks easily by looking for bubbles in the soapy water.
- After the test, deflate the springs to the minimum pressure required to restore the normal ride height, no less than 5 PSI.
- Check the air pressure again after 24 hours. A 2-4 PSI loss after initial installation is normal. Retest for leaks if the loss is more than 5 lbs.

## FIXING LEAKS

- If there is a problem with the swivel fitting:
  - Check the air line connection by deflating the spring and removing the line by pulling the collar against the fitting and pulling firmly on the air line. Trim 1" off the end of the air line. Be sure the cut is clean and square (see Fig. 12). Reinsert the air line into the push-to-connect fitting.
  - Check the threaded connection by tightening the swivel fitting another 1/2 turn. If it still leaks, deflate the air spring, remove the fitting, and re-coat the threads with thread sealant. Reinstall by hand tightening as much as possible, then use a wrench for an additional two turns.
- If there is a problem with the inflation valve, then:
  - Check the valve core by tightening it with a valve core tool.
  - Check the air line connection by removing the air line from the barbed type fitting.

### CAUTION

DO NOT CUT THE AIR LINE COMPLETELY OFF AS THIS WILL NICK THE BARB AND RENDER THE FITTING USELESS.

- If the preceding steps have not resolved the problem, call Air Lift customer service at (800) 248-0892 for assistance.

# Before Operating

## INSTALLATION CHECKLIST (To be completed by installer)

- Clearance test — Inflate the air springs to 60 PSI and ensure there is at least 1/2" clearance around each bellow, away from anything that might rub against them. Be sure to check the tire, brake drum, frame, shock absorbers and brake cables.
- Leak test before road test — Inflate the air springs to 60 PSI, check all connections for leaks with a soapy water solution. See the *Checking for Leaks* section for tips on how to spot leaks. All leaks must be eliminated before the vehicle is road tested.
- Heat test — Be sure there is sufficient clearance from any heat sources — at least 6" for air springs and air lines. If a heat shield was included in the kit, install it. If there is no heat shield, but one is required, call (800) 248-0892.
- Fastener test — Recheck all bolts for proper torque. Retorque after 100 miles.
- Road test — The vehicle should be road tested after the preceding tests. Inflate the air springs to 25 PSI (50 PSI if the vehicle is loaded). Drive the vehicle 10 miles and recheck for clearance, loose fasteners and air leaks.
- Operating instructions — If professionally installed, the installer should review the *Product Use, Maintenance and Servicing* section with the owner. Be sure to provide the owner with all of the paperwork which came with the kit.

**Technician's Signature** \_\_\_\_\_

**Date** \_\_\_\_\_

## POST-INSTALLATION CHECKLIST

- Overnight leak down test — Recheck air pressure after the vehicle has been used for 24 hours. If the pressure has dropped more than 5 PSI, then there is a leak that must be fixed. Either fix the leak yourself or return to the installer for service.
- Air pressure requirements — Regardless of load, the air pressure should always be adjusted to maintain ride height at all times.
- Thirty day or 500 mile test — Recheck the air spring system after 30 days or 500 miles, whichever comes first. If any part shows signs of rubbing or abrasion, the source should be identified and moved, if possible. If it is not possible to relocate the cause of the abrasion, the air spring may need to be remounted. If professionally installed, the installer should be consulted. Check all fasteners for tightness.

# Product Use, Maintenance and Servicing

Minimum Recommended Pressure	Maximum Air Pressure
5 PSI	100 PSI

## MAINTENANCE GUIDELINES

### NOTE

*By following the steps below, vehicle owners will obtain the longest life and best results from their air springs.*

1. Check the air pressure weekly.
2. Always maintain normal ride height. Never inflate beyond 100 PSI.
3. If you develop an air leak in the system, use a soapy water solution (1/5 liquid dish soap and 4/5 water) to check all air line connections and the inflation valve core before deflating and removing the air spring.

### CAUTION

FOR YOUR SAFETY AND TO PREVENT POSSIBLE DAMAGE TO YOUR VEHICLE, DO NOT EXCEED MAXIMUM GROSS VEHICLE WEIGHT RATING (GVWR), AS INDICATED BY THE VEHICLE MANUFACTURER. ALTHOUGH YOUR AIR SPRINGS ARE RATED AT A MAXIMUM INFLATION PRESSURE OF 100 PSI, THE AIR PRESSURE ACTUALLY NEEDED IS DEPENDANT ON YOUR LOAD AND GVWR.

4. Loaded vehicles require at least 25 PSI or more. A “loaded vehicle” refers to a vehicle with a heavy bed load, a trailer, or both. As discussed above, never exceed GVWR, regardless of air spring, air pressure, or other load assist. The springs in this kit will support approximately 40 lbs. of load (combined on both springs) for each 1 PSI of pressure. The required air pressure will vary depending on the state of the original suspension. Operating the vehicle below the minimum air spring pressure will void the Air Lift warranty.
5. When increasing load, always adjust the air pressure to maintain the normal ride height. Increase or decrease pressure from the system as necessary to attain normal ride height for optimal ride and handling. Remember that loads carried behind the axle (including tongue loads) require more leveling force (pressure) than those carried directly over the axle.
6. Always add air to springs in small quantities, checking the pressure frequently.
7. Should it become necessary to raise the vehicle by the frame, make sure the system is at minimum pressure (5 PSI) to reduce the tension on the suspension/brake components. Use of on board leveling systems do not require deflation or disconnection.
8. Periodically check the air spring system fasteners for tightness. Also, check the air springs for any signs of rubbing. Realign if necessary.
9. On occasion, give the air springs a hard spray with a garden hose in order to remove mud, sand, gravel or other abrasive debris.

## TROUBLESHOOTING GUIDE

1. Leak test the air line connections, the threaded connection into the air spring, and all fittings in the control system.
2. Inspect the air lines to be sure none are pinched. Tie straps may be too tight. Loosen or replace the strap and replace leaking components.
3. Inspect the air line for holes and cracks. Replace as needed.
4. Look for a kink or fold in the air line. Reroute as needed.

If the preceding steps do not solve the problem, it is possibly caused by a failed air spring — either a factory defect or an operating problem. Please call Air Lift at (800) 248-0892 for assistance.

## FREQUENTLY ASKED QUESTIONS

**Q. Will installing air springs increase the weight ratings of a vehicle?**

No. Adding air springs will not change the weight ratings (GAWR, GCWR and/or GVWR) of a vehicle. Exceeding the GVWR is dangerous and voids the Air Lift warranty.

**Q. Is it necessary to keep air in the air springs at all times and how much pressure will they need?**

For LoadLifter 5000 Ultimate, the recommended minimum air pressure is 5 PSI, but it can safely be run at zero air pressure.

**Q. Is it necessary to add a compressor system to the air springs?**

No. Air pressure can be adjusted with any type of compressor as long as it can produce sufficient pressure to service the springs. Even a bicycle tire pump can be used, but it's a lot of work.

**Q. How long should air springs last?**

If the air springs are properly installed and maintained they can last indefinitely.

**Q. Will raising the vehicle on a hoist for service work damage the air springs?**

No. The vehicle can be lifted on a hoist for short-term service work such as tire rotation or oil changes. However, if the vehicle will be on the hoist for a prolonged period of time, support the axle with jack stands in order to take the tension off of the air springs.

## TUNING THE AIR PRESSURE

Pressure determination comes down to three things — level vehicle, ride comfort, and stability.

**1. Level vehicle**

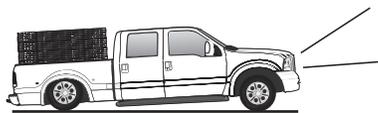
If the vehicle's headlights are shining into the trees or the vehicle is leaning to one side, then it is not level (Fig. 2.1). Raise the air pressure to correct either of these problems and level the vehicle.

**2. Ride comfort**

If the vehicle has a rough or harsh ride it may be due to either too much pressure or not enough (Fig. 2.2). Try different pressures to determine the best ride comfort.

**3. Stability**

Stability translates into safety and should be the priority, meaning the driver may need to sacrifice a perfectly level and comfortable ride. Stability issues include roll control, bounce, dive during braking and sponginess (Fig. 2.3). Tuning out these problems usually requires an increase in pressure.



Bad headlight aim *fig. 2.1*



Rough ride *fig. 2.2*



Sway and body roll *fig. 2.3*

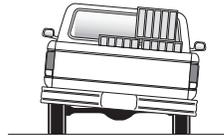
## GUIDELINES FOR ADDING AIR

1. Start with the vehicle level or slightly above.
2. When in doubt, always add air.
3. If the front of the vehicle dives while braking, increase the pressure in the front air bags, if equipped.
4. If it is ever suspected that the air bags have bottomed out, increase the pressure (Fig. 2.4).
5. Adjust the pressure up and down to find the best ride.
6. If the vehicle rocks and rolls, adjust the air pressure to reduce movement.
7. It may be necessary to maintain different pressures on each side of the vehicle. Loads such as water, fuel, and appliances will cause the vehicle to be heavier on one side (Fig. 2.5). As much as a 50 PSI difference is not uncommon.

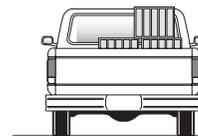


Bottoming out

*fig. 2.4*



Unlevel



Level

*fig. 2.5*

# Choosing the Right On-Board Air Compressor System

**60 DAY** NO QUESTIONS ASKED, MONEY-BACK GUARANTEE

**TWO-YEAR** COMPRESSOR SYSTEM WARRANTY

Add an on-board air compressor system to inflate and deflate your air springs automatically or with the touch of a button — from inside or outside of the vehicle.

- For convenient, on-the-go control of your air springs, add an Air Lift on-board air compressor system.
- Air Lift on-board air compressor systems eliminate the search for gas stations that have a working compressor, saving you time, energy and money.
- All systems include a compressor, controller and all parts needed for easy installation.

**1. Choose single or dual path inflation (see illustrations at right)**

**2. Choose wireless, analog control or automatic**

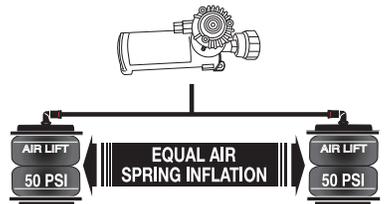
- **Wireless:** Control your air springs from inside or outside the vehicle. Easiest installation — no wires to the cab.
- **Analog:** In-cab control of your air springs. Economically priced.
- **Automatic:** Self-leveling system, keeps the vehicle level no matter what.

**3. Choose heavy or standard duty compressor**

- **Standard duty:** A standard duty compressor will work well for most customers who use their system on an intermittent basis.
- **Heavy duty:** For daily use, consider the heavy-duty compressor — it inflates faster and more quietly than the standard compressor.



**Dual path systems** Air springs are controlled separately to allow for different air pressure from side-to-side. Perfect for uneven or top-heavy loads.



**Single path systems** Two springs will inflate at the same time. Good for loads that are evenly distributed from left-to-right or front-to-back.

Visit [www.airliftcompany.com](http://www.airliftcompany.com) for more detailed info on compressor systems.

W I R E L E S S

A N A L O G

A U T O M A T I C

**WirelessAIR™**

**OUR PREMIUM SYSTEM!**

- Easy installation
- Includes heavy-duty compressor



P/N 72000

**LoadCONTROLLER™**

**Dual**

Compact, economically priced control.



P/N Standard Duty Compressor 25850; P/N Heavy Duty Compressor 25854

**WirelessONE™**

- Easy installation
- Includes standard-duty compressor



P/N 25870

**LoadCONTROLLER™**

**Single**

Compact, economically priced control.



P/N Standard Duty Compressor 25852; P/N Heavy Duty Compressor 25856

**SmartAIR™ II**

- Easy installation
- Automatic self-leveling system
- No in-cab controls required



Single Path P/N 25490, Dual Path P/N 25491



# Limited Warranty and Return Policy

## WHAT THIS WARRANTY COVERS

Air Lift Company provides a warranty to the original purchaser of its Load Support Products, for the periods of time listed below, by product line, from the date of original purchase, that the products will be free from defects in workmanship and materials when used on cars and trucks as specified by Air Lift Company and under normal operating conditions, subject to the requirements and exclusions set forth below.

## WHAT THIS WARRANTY DOES NOT COVER

The warranty does not apply to products that have been improperly applied, improperly installed, or which have not been maintained in accordance with installation instructions furnished with all products. This warranty does not apply and is void if damage or failure is caused by: accident, abuse, misuse (including but not limited to racing or off-road activities or commercial use), abnormal use, faulty installation, liquid contact, fire, earthquake or other external cause; operating the product outside Air Lift Company’s instructions, specifications or guidelines; or service, alteration, maintenance or repairs performed by anyone other than Air Lift Company to the product from its purchased condition. This warranty also does not apply to: consumable parts, such as batteries; cosmetic damage, including but not limited to scratches or dents; defects caused by normal wear and tear or otherwise due to the normal aging of the product, or if any serial or identification number has been removed or defaced from the product. Air Lift Company reserves the right to change the design of any product without assuming any obligation to modify any product previously manufactured.

## LIMITATION OF LIABILITY

To the extent permitted by law, this warranty and the remedies set forth herein are exclusive and in lieu of all other warranties, remedies and conditions, whether oral, written, statutory, express or implied. AIR LIFT COMPANY DISCLAIMS ALL STATUTORY AND IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS TO THE EXTENT PERMITTED BY LAW. To the extent such warranties cannot be disclaimed, such implied warranties shall apply only for the warranty period specified above. Please note that some states do not allow limitation on how long an implied warranty (or condition) lasts. So the above limitation may not apply to you.

Except as provided in this warranty and to the extent permitted by law, Air Lift Company shall not be liable for any direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or arising in connection with the sale, use or repair of air lift products, or under any other legal theory, including but not limited to loss of use, loss of revenue, loss of actual or anticipated profits, loss of the use of money, loss of business, loss of opportunity, loss of goodwill, and loss of reputation. Air Lift Company’s maximum liability shall not in any case exceed the purchase price paid by you for the Air Lift product. Please note that some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

## HOW TO GET SERVICE

If a defect in workmanship or materials causes your Air Lift product to become inoperable within the warranty period, before returning any defective product, call Air Lift Company at (800) 248-0892 in the U.S. and Canada (elsewhere, (517) 322-2144) to obtain a Returned Materials Authorization (RMA) number. The consumer shall be responsible for removing (labor charges) the defective product from the vehicle and returning it, shipping costs prepaid, to Air Lift Company for verification. Returns to Air Lift Company must be postage prepaid and sent to: Air Lift Company • 2727 Snow Road • Lansing, MI • 48917. You must prove to the satisfaction of Air Lift Company the date of original purchase of your Air Lift product. You must also enclose the RMA number and a return address. A minimum \$10 shipping and handling charge will apply to all warranty claims. You must also pack the product to minimize the risk of it being damaged in transit. If we receive a product in damaged condition as the result of shipping, we will notify you and you must seek a claim with the shipper.

## WHAT AIR LIFT COMPANY WILL DO

If you submit a valid claim to Air Lift Company during the warranty period, Air Lift Company will, at its option, repair your Air Lift product or furnish you with a new or rebuilt product. Air Lift Company will not reimburse you for repairs or replacement parts provided by other parties. Your repaired or replacement Air Lift product will be returned to you (subject to payment of the required warranty claim shipping and handling charge) and it will be covered under the warranty for the balance of the warranty period, if any. When a product or part is replaced, any replacement item becomes your property and the replaced item becomes property of Air Lift Company. You are responsible for installation/reinstallation (labor charges) of the product.

## HOW THE LAW RELATES TO THIS WARRANTY

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. By this warranty, Air Lift Company does not limit or exclude your rights except as allowed by law. To fully understand your rights, you should consult the laws of your state.

## SPECIFIC LOAD SUPPORT WARRANTY PERIODS BY PRODUCT LINE

LoadLifter 5000™ Ultimate.....	Lifetime Limited	WirelessAIR™.....	2 Year Limited
LoadLifter 5000™.....	Lifetime Limited	WirelessONE™.....	2 Year Limited
RideControl™.....	Lifetime Limited	LoadController™ Single and Dual.....	2 Year Limited
Air Lift 1000™.....	Lifetime Limited	LoadController™ I and II.....	2 Year Limited
AirCell™.....	Lifetime Limited	SmartAir™ II.....	2 Year Limited
SlamAir™.....	Lifetime Limited	Other Accessories.....	2 Year Limited

## Replacement Information

If you need replacement parts, contact the local dealer or call Air Lift customer service at (800) 248-0892. Most parts are immediately available and can be shipped the same day.

**Contact Air Lift Company customer service at (800) 248-0892, first if:**

- Parts are missing from the kit.
- Need technical assistance on installation or operation.
- Broken or defective parts in the kit.
- Wrong parts in the kit.
- Have a warranty claim or question.

**Contact the retailer where the kit was purchased:**

- If it is necessary to return or exchange the kit for any reason.
- If there is a problem with shipping if shipped from the retailer.
- If there is a problem with the price.

## Contact Information

If you have any questions, comments or need technical assistance, contact our customer service department by calling (800) 248-0892, Monday through Friday. For calls from outside the USA or Canada, our local number is (517) 322-2144.

For inquiries by mail, our address is PO Box 80167, Lansing, MI 48908-0167. Our shipping address for returns is 2727 Snow Road, Lansing, MI 48917.

You may also contact us anytime by e-mail at [sales@airliftcompany.com](mailto:sales@airliftcompany.com) or on the web at [www.airliftcompany.com](http://www.airliftcompany.com).

## Need Help?

Contact our customer service department by calling (800) 248-0892, Monday through Friday. For calls from outside the USA or Canada, our local number is (517) 322-2144.

**Register your warranty online at  
[www.airliftcompany.com/warranty](http://www.airliftcompany.com/warranty)**



*Thank you for purchasing Air Lift products — the professional installer's choice!*

Air Lift Company • 2727 Snow Road • Lansing, MI 48917 or PO Box 80167 • Lansing, MI 48908-0167  
Toll Free (800) 248-0892 • Local (517) 322-2144 • Fax (517) 322-0240 • [www.airliftcompany.com](http://www.airliftcompany.com)

Printed in  
the USA