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### Introduction

The purpose of this publication is to assist with the installation, maintenance and troubleshooting of the LoadLifter 5000 air spring kit. LoadLifter 5000 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. LoadLifter 5000 kits are recommended for most 3/4- and 1-ton pickups and SUVs with leaf springs and provide up to 5,000 lbs. of oad leveling support with air adjustability from 5-100 PSI. The kits are also used in motor home rear kits and some motor home fronts where leaf spring 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 guidelines and operating tips.

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.

#### **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 truck is designed to carry. Payload is GVWR minus the Base Curb Weight.

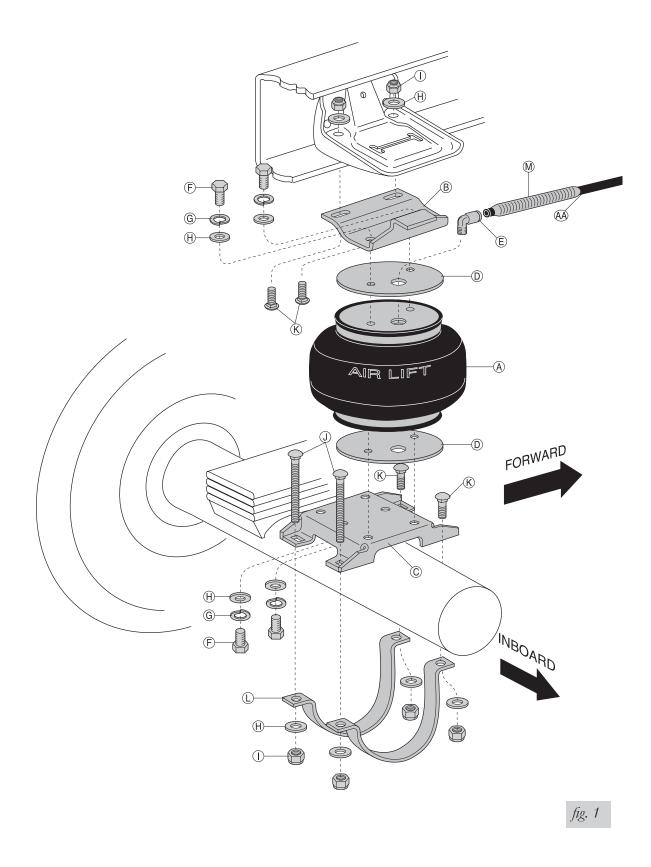
#### NOTATION EXPLANATION

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.

INDICATES IMMEDIATE HAZARDS WHICH WILL RESULT IN SEVERE PERSONAL INJURY OR DEATH.
 INDICATES HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH.
 INDICATES HAZARDS OR UNSAFE PRACTICES WHICH COULD RESULT IN DAMAGE TO THE MACHINE OR MINOR PERSONAL INJURY.
 INDICATES a procedure, practice or hint which is important to highlight.



# **Installation Diagram**





#### HARDWARE LIST

Item	DescriptionQty	Item	DescriptionQty
Α	Air Springs2	М	Thermal Sleeve
В	Upper Bracket2	Ν	Heat Shield*2
С	Lower Bracket2	0	Heat Shield Clamp* 4
D	Backer Plate 4	AA	Air Line Assembly 1
E	Elbow Fitting2	BB	Tie Strap*6
F	3/8"-24 x 7/8" Bolt	CC	Valve Cap*2
G	3/8" Lock Washer 8	DD	5/16" Flat Washer*2
Н	3/8" Flat Washer 20	EE	Rubber Washer* 2
1	3/8" Nylock Nut 12	FF	5/16" Star Washer*2
J	3/8"-16 x 3.5" Carriage Bolt 4	GG	5/16" Hex Nut* 4
K	3/8"-16 x 1.5" Carriage Bolt 8		
L	J-Strap4	(* not s	shown in Figure 1)

#### **TOOL LIST**

Description	Qty
7/16" and 9/16" open-end or box wrenches	
Crescent Wrench	. 1
Ratchet with 3/8", 9/16", and 1/2" deep well sockets	. 1
3/8" and 5/16" drill bits (very sharp)	
3/8" Nut Driver	. 1
Heavy Duty Drill	. 1
Torque Wrench	. 1
Hose Cutter, Razor Blade, or Sharp Knife	. 1
Hoist or Floor Jacks	. 1
Safety Stands	
Safety Glasses	. 1
Air Compressor, or Compressed Air Source	. 1
Spray Bottle with Dish Soap/Water Solution	. 1



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



# **Installing the LoadLifter 5000 System**

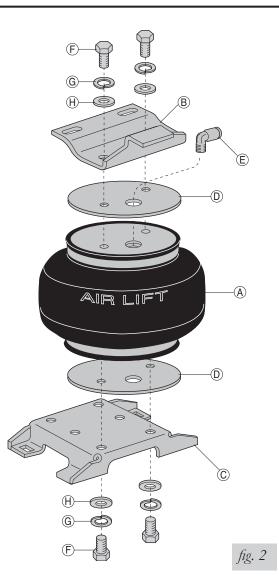
#### **A** DANGER

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.

#### ASSEMBLING THE AIR SPRING ASSEMBLY

- 1. Place backer plate (D) on the top of the air spring (A).
- 2. Install 90∞ elbow fitting (E) to the top of the air spring. Tighten finger tight plus 1 and 1/2 turns. Be careful to only tighten on the metal hex nut. Do not over tighten.
- Set the upper bracket (B) onto the air spring (A). Make sure that the air fitting port is on the same side as the tab. Attach the bellow-bracket assembly using 3/8 " bolt (F), 3/8 " lock washer (G), and 3/8 " flat washer (H). Tighten to 20 ft-lbs (Figure 2).
- 4. Set a backer plate (D) onto the bottom of the air spring assembly.
- 5. Place the lower bracket onto the air spring assembly in an offset position (Figure 2).

NOTE: The bellows assembly will offset (over hang) the lower bracket. Make sure that the offset is on the air fitting side of the assembly

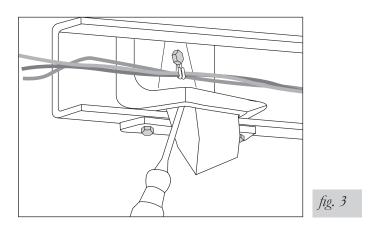


NOTE

- 6. Use the template provided in the back of the manual to determine the correct holes for mounting. Use the holes marked by an ìAî for bellow mounting.
- 7. Use a 3/8 " bolt (F), a 3/8 " lock washer (G), and a 3/8 " flat washer (H) through the holes marked with an ìAî to attach the lower bracket and backer plate to the assembly. Again, be sure that the bellow is offset to the fitting side. Tighten hardware to 20 ft-lbs (Figure 2).

#### ATTACHING THE UPPER BRACKET

1. Use a screwdriver to remove or pry the rubber jounce bumper from the metal bracket on the frame rail (Figure 3). This will not be reused.



- 2. Remove the two nuts and bolts holding the metal to metal stop to the frame (Figure 4). Discard these parts. Replacement nuts and carriage bolts are provided.
- 3. It may be necessary to remove the clip holding the lines on the inside of the frame rail to provide access to the existing bolts (Figure 5).

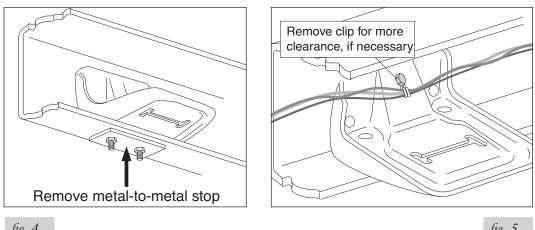


fig. 4

fig. 5

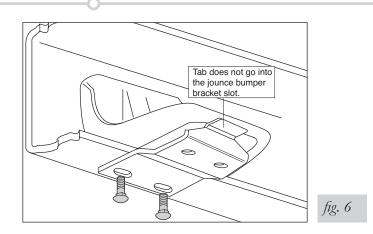
- 4. Insert two short carriage bolts (K) into the upper bracket (Figure 1).
- 5. Set the assembly onto the the axle and insert the carriage bolts through the existing holes where the metal-to-metal stop was mounted.

The tab of the upper bracket rests against the jounce bumper bracket. It does not go into the slot (Figure 6).

NOTE

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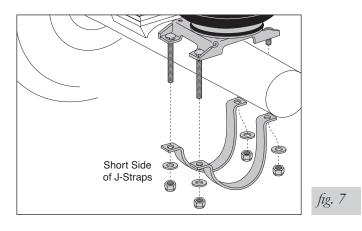




 Secure the upper bracket to the frame and jounce bumper bracket using a flat washer (H) and nylock nut (I) on each carriage bolt (Figure 1).

#### ATTACHING THE LOWER BRACKET

- 1. Install two 3/8 " x 1.5" carriage bolts (K) in the two forward facing holes of the lower bracket (Figure 1).
- 2. Install two 3/8 " x 3.5" carriage bolts (J) in the rearward facing holes of the lower bracket (Figure 1).
- 3. Install the J-straps (L) with the long leg to the front of the vehicle. Loosely attach the straps using flat washers (H) and 3/8 " lock nuts (I). Refer to Figures 1 and 7.



4. On the shock absorber side of the lower bracket, fit the J-strap between the shock bracket and the axle housing. It is not necessary to remove the shock absorber.

NOTE

NOTE: Disconnecting the lower shock attachment may simplify the installation, although this is not necessary.

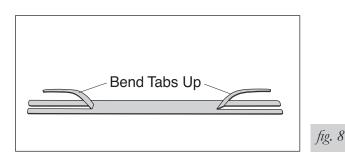
- 5. Inspect the assembly and make sure that the bellow is mounted straight up and down and that the lower bracket is centered on the axle housing. The upper bracket is slotted for adjustment.
- 6. Cross tighten the nuts on the shorter carriage bolts first and then the long bolts. Tighten the J-strap nuts to 16 ft-lbs.
- 7. Secure the upper bracket to the frame/jounce bumper bracket assembly. Tighten to 20 ft-lbs.
- 8. Reattach the clip on the lines on the inside of the frame rail using the original hardware.

#### INSTALLING OTHER AIR SPRING

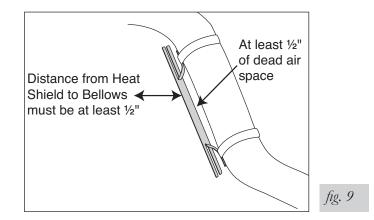
- 1. Installation for one air spring is now complete. Continue by repeating steps *Attaching the Upper Bracket* and *Attaching the Lower Bracket* for the other side.
- 2. Return to *Installing the Heat Shield* when second air spring is installed.

#### **INSTALLING THE HEAT SHIELD**

- 1. Bend tabs to provide a 1/2" dead air space between exhaust pipe and heat shield (Figure 8).
- 2. Attach the heat shield (N) to the exhaust pipe using the provided clamps (O). See Figure



9. Bend the heat shield for maximum clearance to the air spring.



#### **INSTALLING THE AIR LINES**

1. Choose a convenient location for mounting the inflation valves. Popular locations for the inflation valve are in the wheel well flanges, in the stowage area, under the body flange.

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 (AA) in two equal lengths.

NOTE

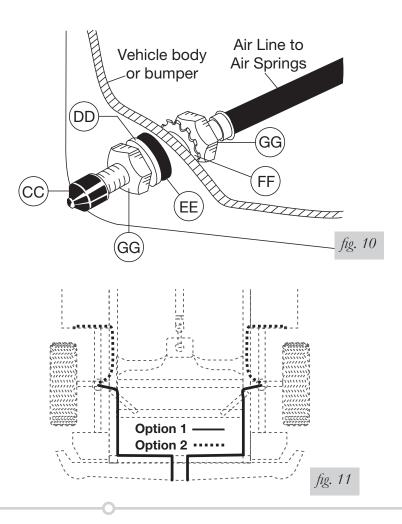
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<b>A</b> CAUTION	CAUTION: WHEN CUTTING OR TRIMMING THE AIR LINE, USE A HOSE CUTTER, A RAZOR BLADE OR A SHARP KNIFE. A CLEAN, SQUARE CUT WILL ENSURE AGAINST LEAKS. DO NOT USE WIRE CUTTERS OR SCISSORS TO CUT THE AIR LINE. THESE TOOLS MAY FLATTEN OR CRIMP THE AIR LINE, CAUSING IT TO LEAK AROUND THE O-RING SEAL INSIDE THE ELBOW FITTING.
	4. Place a 5/16" nut (GG) and a star washer (FF) on the air valve. Leave enough of the valve in front of the nut to extend through the hole and have room for the rubber washer (EE), flat washer (DD), and 5/16" nut (GG) and cap (CC). There should be enough valve exposed after installation - approximately 1/2" - to easily apply a pressure gauge or an

air chuck (Figure 10).

- 5. Push the inflation valve through the hole and use the rubber washer (EE), flat washer (DD), and another 5/16" nut (GG) to secure it in place. Tighten the nuts to secure the assembly in place (Figure 10).
- 6. Route the air line along the frame to the air fitting on the air spring (Figure 11). 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 (BB) 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.
- 7. On both sides, place the provided thermal sleeve (M) on the air line near the exhaust.
- 8. Cut off air line leaving approximately 12" of extra air line. A clean square cut will ensure against leaks. 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**

- 1. Inflate the air spring to 60 p.s.i. 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. Leaks will be spotted easily by looking for bubbles in the soapy water.
- 2. After the test, deflate the springs to the minimum pressure required to restore the Normal Ride Height, but not less than 20 p.s.i.

IMPORTANT: Check the air pressure again after 24 hours. A 2 to 4 p.s.i. loss after initial installation is normal. Retest for leaks if the loss is more than 5 lbs.

#### **FIXING LEAKS**

- 1. If there is a problem with the swivel fitting, then:
- a. 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. Reinsert the air line into the push-to-connect fitting.
- b. 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.
- 2. If there is a problem with the inflation valve, then:
- a. Check the valve core by tightening it with a valve core tool.
- b. Check the air line connection by removing the air line from the barbed type fitting.

DO NOT CUT IT OFF. AS THIS WILL USUALLY NICK THE BARB AND RENDER THE FITTING USELESS. CUT AIR LINE OFF A FEW INCHES IN FRONT OF THE FITTING AND USE A PAIR OF PLIERS OR VISE-GRIPS TO PULL/TWIST THE AIR LINE OFF THE FITTING.

3. If the preceding steps have did not resolve the problem, call Air Lift Technical Support at 1-800-248-0892 for assistance.

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NOTE

CAUTION



# **Before Operating**

#### **INSTALLATION CHECKLIST** (To be completed by installer)

- □ Clearance test Inflate the air springs to 60 PSI and ensure there is at least ½" 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 page 12 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. Axle clamp bar carriage bolt lock nuts should be torqued to 16 ft/lbs. Re-torque 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 on page 14 with the owner. Be sure to provide the owner with all of the paperwork which came with the kit.

#### Technician's Signature

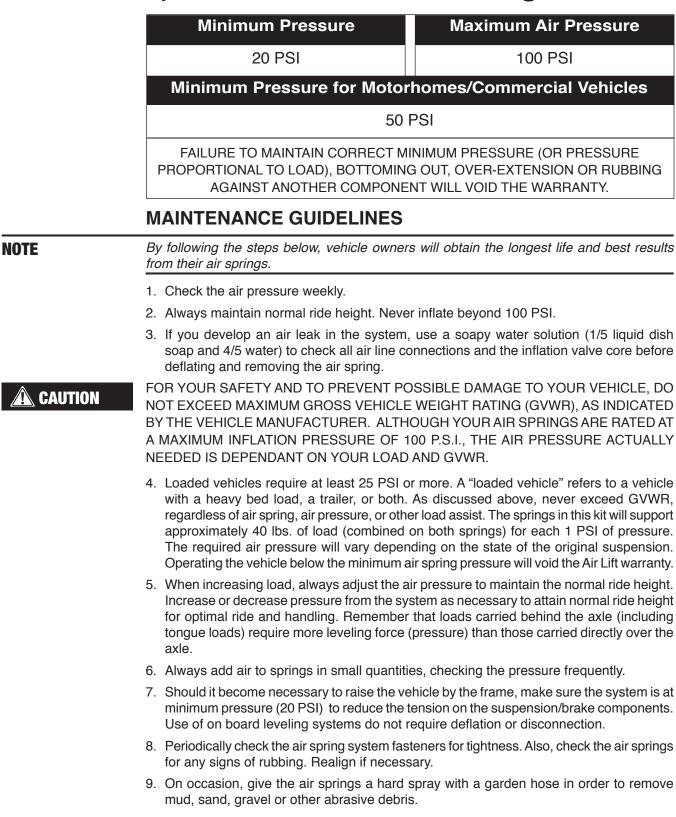
Date

#### **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**





#### **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?

The minimum air pressure should be maintained <u>at all times</u>. The minimum air pressure keeps the air spring in shape, ensuring that it will move throughout its travel without rubbing or wearing on itself.

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

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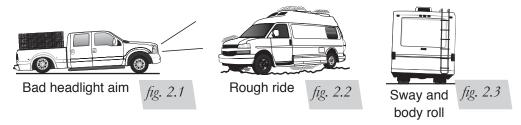
If the vehicle's headlights are shining into the trees or the vehicle is leaning to one side, then it is not level (fig. 2.1). Raise the air pressure to correct either of these problems and level the vehicle.

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.

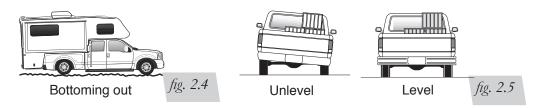
3. Stability

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.

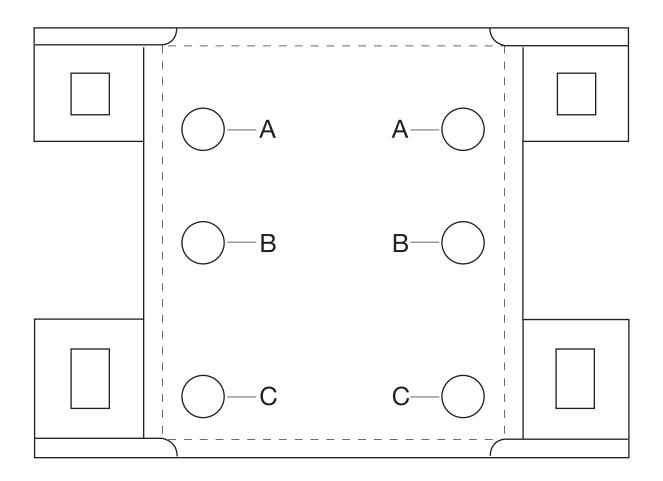


#### **GUIDELINES FOR ADDING AIR**

- 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.
- 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.



# **Lower Bracket Template**





### **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

Lifetime Limited
Lifetime Limited

WirelessAIR™	2 Year Limited
WirelessONE™	2 Year Limited
LoadController™ Single and Dual	2 Year Limited
LoadController™ I and II	2 Year Limited
SmartAir™ II	2 Year Limited
Other Accessories	2 Year Limited

### **Replacement Part Information**

If replacement parts are needed, 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**

Mailing address	P.O. Box 80167 Lansing, MI 48908-0167
Shipping address for returns	2727 Snow Road Lansing, MI 48917
Phone	Toll free: (800) 248-0892 International: (517) 322-2144
Email	service@airliftcompany.com
Web address	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



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

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