

# Kit Number **88397**

## **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.

Internal jounce bumper

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## 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.

#### **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.





# **Installation Diagram**





# **Hardware and Tools Lists**

#### HARDWARE LIST

Item	Part #	DescriptionQty	Item	Part #	DescriptionQty
A	03991	Lower Bracket2	R	18207	1/2" Thick Flat Washer6
В	07996	Upper Brace2	S	18419	Flat Washer #122
С	07997	Upper Bracket2	Т	18425	1/4"-20 Nyloc Nut1
D	01531	Clamp Bar2	U	18427	3/8" Lock Washer8
E	10861	Spring Clamp Bar2	V	18435	3/8"-16 Nyloc Nut18
F	13966	Spacer2	W	18444	3/8" Flat Washer34
G	11967	Roll Plate4	Х	18460	1/2"-13 Nyloc Nut2
Н	58496	Bellows2	Y	18556	3/4" Flat Washer2
- I	10880	Four Hole Locating Bracket4	Z	21837	90° Swivel Air Fitting2
J	10886	"L" Bracket1	AA	10466	Zip Ties6
K	17110	3/8"-16 x 5.5" Hex Head Cap Screw4	BB	18411	5/16" Lock Washer2
L	17135	1/4"-20 x 1" Hex Cap Screw1	CC	21230	Valve Caps2
М	17141	3/8"-16 x 2.5" Carriage Bolt2	DD	21233	5/16" Hex Nut2
N	17203	3/8"-24 x 7/8" Hex Head Cap Screw8	EE	21234	Rubber Washer2
0	17271	1/2"-13 x 3" Hex Cap Screw2	FF	20086	Air Line Assembly1
Р	17361	3/8"-16 x 1.25" Carriage Bolt8	GG	34924	Heat Shield Kit1
Q	17387	3/8"-16 x 10" Carriage Bolt4	HH	17208	1/2"-13 x 2" Hex Head Cap Screw2

#### **TOOLS LIST**

<b>Description</b>	.2
Crescent wrench Ratchet with 3/8", 9/16", & 1/2" deep well sockets 5/16" drill bits (very sharp)	.1
DIR grinder Hacksaw	.1 .1
Heavy duty drill Torque wrench Standard, metric and SAE sockets and wrenches	.1
Hose cutter, razor blade, or sharp knife	.1
Safety stands Safety glasses	.1 .1
Air compressor or compressed air source Spray bottle with dish soap/water solution	



# Installing the LoadLifter 5000 Ultimate System

#### **GETTING STARTED**

1. Raise the vehicle and support the axle with jack stands, setting the jack stands as wide as possible on the axle (Fig. 2).



If your model truck has emission lines running along the inside of the frame rail (Fig. 3), it will be necessary to relocate those lines as follows. Follow the directions in the section, "Attaching the Assemblies to the Frame" for reattaching these lines.

• Carefully push the line holder out of the frame above the axle. Try to minimize damage because it will be reused later. It may also be helpful to remove any holders forward or rearward of the axle to aid in positioning the lines once the upper bracket has been installed (Fig. 3).

• Attach the L-bracket (J) to the back frame brace using the 1/4" bolt (L), flat washers (S) and nyloc nut (T) supplied (Fig. 1). This L-bracket will eventually be used to attach the previously removed emissions line. Do not attach the line holder to it at this time.







#### SIDE BRACE INSTALLATION



1. Set the upper brace (B) into the driver and passenger side frame (Fig. 4).

If you have no fifth wheel hitch or a hitch that does not have a plate running alongside the full length of the frame (these will have an "L" bracket forward and behind the axle leaving the middle frame open) use the 1/2"-13 x 2.00" Hex Cap Screw (HH) with a flat washer (R) through the slot in the side of the frame, then through another flat washer (R) and finally through the upper brace. Cap with a flat washer (R) and a 1/2"-13 nyloc nut (X) (Fig. 5). Leave loose at this time.

#### OR

If you have an aftermarket fifth wheel hitch that has a bracket (plate) running along side of the frame and it used this slot to secure the bracket to the frame with existing hardware, install the existing hardware previously removed in the "getting started section" from the fifth wheel installation for securing the brace (Fig. 4). Make sure to install the large 3/4" flat washer (Y) between the brace and frame (Figs. 1 and 4). Do not tighten at this time.

#### OR

If you have an aftermarket fifth wheel hitch that has a bracket (plate) running along side of the frame and it does not have any attaching hardware on the side where the slot in the frame is, it will be necessary to drill a 1/2" hole through the plate using the slot in the frame as a template. Drill the hole as far back in the slot as you can.

It may be necessary to mark and remove the bracket (plate) from the side of the frame in order to drill the hole correctly. Re-attach once the hole is drilled.

Insert a 1/2"-13 x 3.00" hex cap screw (O) with a flat washer (R) through the fifth wheel plate previously drilled, the frame, then through another flat washer (R) and finally the upper frame brace. Cap with a flat washer (R) and a 1/2"-13 Nyloc nut (X) (Fig. 4). Leave loose at this time.

NOTE

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#### **BELLOWS AND BRACKET ASSEMBLY**

1. Set a roll plate (G) over the top and bottom of the bellows (H) (Fig. 1).

**NOTE** The radiused (rounded) edge of the roll plate (G) will be towards the bellows so that the bellows is seated inside both roll plates.

- 2. Install the swivel elbow fitting (Z) into the top of the bellows finger tight. Tighten the swivel fitting one and a half turns.
- 3. The lower bracket (A) has two sets of bellows mounting holes. Using the corresponding holes in the lower bracket designated (Fig. 5), attach the bellows to the brackets using the 3/8" flat washers (W), lock washers (U), and 3/8"-24 x 7/8" hex head cap screws (N). Torque both mounting screws to 20 lb.-ft.

NOTE

The fitting on top of the bellows points inward (Fig. 7).



- 5. Insert two 3/8"-16 x 1.25" carriage bolts (P) up through the bottom of the upper brackets (Fig. 7), through the two square holes that are on the corresponding side. Also, insert one 3/8"-16 x 2.5" carriage bolt (M) through the remaining hole. The head of this carriage bolt will be hidden once mounted to the bellows.
- 6. Set the driver side (left) upper bracket onto the driver side bellows assembly previously assembled, using the holes in the upper bracket designated (Fig. 6), and attach to the bellows with two 3/8" flat washers (W), lock washers (U), and 3/8"-24 x 7/8" hex head cap screws (N). Torque both mounting screws to 20 lb.-ft.
- 7. Repeat the above process for the opposite side assembly (Fig. 7).
- 8. Set the spacer (F) over both long carriage bolts (Fig. 7).
- The hole in the flat spacer (F) is offset. Install the spacer so that the wide portion faces the outside of the vehicle (Fig. 7).



NOTE



#### ATTACHING THE ASSEMBLIES TO THE FRAME

- 1. If not done so yet, drop the axle or raise the frame up to make room for the assemblies to be put into position.
- 2. Set the left (driver side) assembly onto the axle (Fig. 1). Raise the axle just enough to insert the long carriage bolt (M) (that is installed in the upper bracket) through the existing jounce bumper hole in the bottom of the frame. At the same time, line up the upper brace previously installed onto the remaining two carriage bolts (P) in the upper bracket. Do this just enough for the carriage bolt to hold the assembly into position on the axle (Fig. 1).
- 3. Set the right (passenger side) assembly into position on the axle the same way the left side was positioned (Fig. 1).
- 4. Raise the axle or lower the frame down so that the thick spacer (F) on the upper bracket is parallel to, and contacts the frame (on both sides).
- 5. Install the 3/8" Flat Washer (W) and a 3/8'-16 Nyloc nut (V) on the carriage bolt (M) that went through the existing jounce bumper hole and tighten securely on both sides (Fig. 1).
- BE SURE NOT TO PINCH THE PREVIOUSLY MOVED WIRING OR LINES INSIDE THE LEFT FRAME RAIL.
- 6. Cap the brace/upper bracket carriage bolts (P) with a 3/8" flat washer (W) and 3/8" nyloc nut (V) and tighten both securely on both sides.
- 7. With the spacers (F) on the upper brackets tight to the bottom of the frame and the braces tight to the upper bracket, tighten the 1/2 or 3/4" hardware previously installed, that hold the braces to the frame. Tighten both sides securely.
- 8. If so equipped with the emissions line previously loosened from the frame, insert the line holder post into the L-bracket (J) attached to the back leg of the upper left brace (B) (Fig. 8). It may be necessary to move the line holder post forward or back on the lines to line up correctly with the L-bracket hole. Reattach any line holders removed forward or behind the axle, if possible, that were removed to aid in positioning the upper bracket.



#### LOWER BRACKET ATTACHMENT

#### 🛕 CAUTION

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CAUTION

ATTACHING THE LOWER BRACKET WILL DEPEND ON THE MODEL TRUCK YOU HAVE. SEE FIGURE 10 TO DETERMINE WHICH HOLES TO USE FOR INSERTING THE CARRIAGE BOLTS.

1. Insert a 3/8"-16 x 5.5" hex head bolt bolt (K) and flat washer (W) into one of the two bottom holes of the locating bracket (I) (Fig. 9).

#### **NOTE** Use the hole that is closest to the leaf spring.



- 2a. If you are installing this kit on a single rear wheel (SRW) vehicle, use position 2 to insert the long 3/8"-16 x 10" carriage bolt (Q) through the top of the locating bracket and lower bracket (Fig. 9).
- 2b.If you are installing this kit on a dual rear wheel (DRW) vehicle, use position 1 to insert the long 3/8"-16 x 10" carriage bolt (Q) through the top of the locating bracket and lower bracket (Fig. 9).
- Attach the locating bracket (I) to the lower bracket with a 3/8"-16 x 1.25" carriage bolt (P), flat washer (W) and nyloc nut (V) using the remaining slot in the top of the locating bracket. Leave loose at this time.
- 4. Push the front and back locating brackets against the u-bolts and tighten the short carriage bolts at this time.
- 5. Using the 3/8"-16 x 5.5" hex head bolts (K) and flat washers (W) previously installed on the locating brackets, insert them into the spring clamp bar (E) on the opposite side of the leaf spring assembly (Fig. 9). Cap with 3/8" flat washers (W) and nyloc nuts (V). Leave loose at this time.



6. Set the axle clamp bar (D) onto the long 3/8"-16 x 10" carriage bolts (Q) (Fig. 1) and cap with 3/8" flat washers (W) and nyloc nuts (V).

If you have a sway bar under the axle and the carriage bolt (Q) interferes, invert the carriage bolt.

7. Carefully draw the side hardware and axle hardware evenly. Torque the spring clamp bar bolts to 10 lb.-ft. and the axle clamp bar bolts to 16 lb.-ft. Repeat for opposite side. Trim carriage bolts below nyloc nuts if necessary.



NOTE



NOTE

For 2WD and 4WD DRW vehicles, in order to install the sway bar and sway bar retaining straps back onto the axle, it will be necessary to slot the retaining straps (Fig. 11). Reattach the sway bar once this is done.



#### **FINAL STEPS**

1. The emergency brake cable will have to be re-located away from the bellows.

FAILURE TO DO SO MAY CAUSE FAILURE TO THE BELLOWS AND VOID THE WARRANTY.

2. Secure the emergency brake cable to the bottom bracket with supplied wire tie using the hole in the corner of the lower bracket (Fig. 12).



#### 🛕 CAUTION

#### **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. The license plate recess in bumper
  - c. Under the gas cap access door
  - d. Through the license plate

NOTE

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

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





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. 13).



- 4. Place a 5/16" nut and 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 (Fig. 14).
- 5. Push the inflation valve through the hole and use the rubber washer, flat washer, and another 5/16" nut to secure it in place. Tighten the nuts to secure the assembly.
- 6. Route the air line along the frame to the air fitting on the air spring (Fig. 15). 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.



7. Cut off the 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).

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

- 1. Bend tabs to provide a 1/2" dead air space between exhaust pipe and heat shield (Fig. 16).
- 2. Attach the heat shield to the exhaust pipe using the clamps. Bend the heat shield for maximum clearance to the air spring (Fig. 16).

Some vehicles have large resonators in this area, it will be necessary to double up on the clamps to fit these models (Fig. 17).



### **CHECKING FOR LEAKS**

- 1. Inflate the air spring to 30 PSI.
- 2. Spray all connections and the inflation valves with a solution of 1/5 liquid dish soap and 4/5 water. Spot leaks easily by looking for bubbles in the soapy water.
- 3. After the test, deflate the springs to the minimum pressure required to restore the system to normal ride height. Do not deflate to lower than 5 PSI.
- 4. 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**

- 1. If there is a problem with the swivel fitting:
  - 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 (see Fig. 13). 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 and then use a wrench for an additional two turns.

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- 2. If there is a problem with the inflation valve:
  - a. Check the valve core by tightening it with a valve core tool.
  - b. Check the air line by removing the air line from the barbed type fitting. Cut the air line off a few inches in front of the fitting and use a pair of pliers or vice grips to pull/ twist the air line off of the fitting.

#### A CAUTION

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

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

## **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 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 lb.-ft. 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.



NOTE

## **Product Use, Maintenance and Servicing**

Minimum Recommended Pressure

Maximum Air Pressure

5 PSI

100 PSI

#### **MAINTENANCE GUIDELINES**

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 P.S.I., 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.



#### **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.



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# Notes





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# **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 lage of the use of acceding and the part of actual or anticipated profits, loss of lose of the use of acceding marking marking marking marking marking marking marking and the lage of acceding and the part of actual or anticipated profits, loss of acceding actual actua

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
LoadLifter 5000™	Lifetime Limited
RideControl™	Lifetime Limited
Air Lift 1000™	Lifetime Limited
AirCell™	Lifetime Limited
SlamAir™	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 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 or on the web at 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