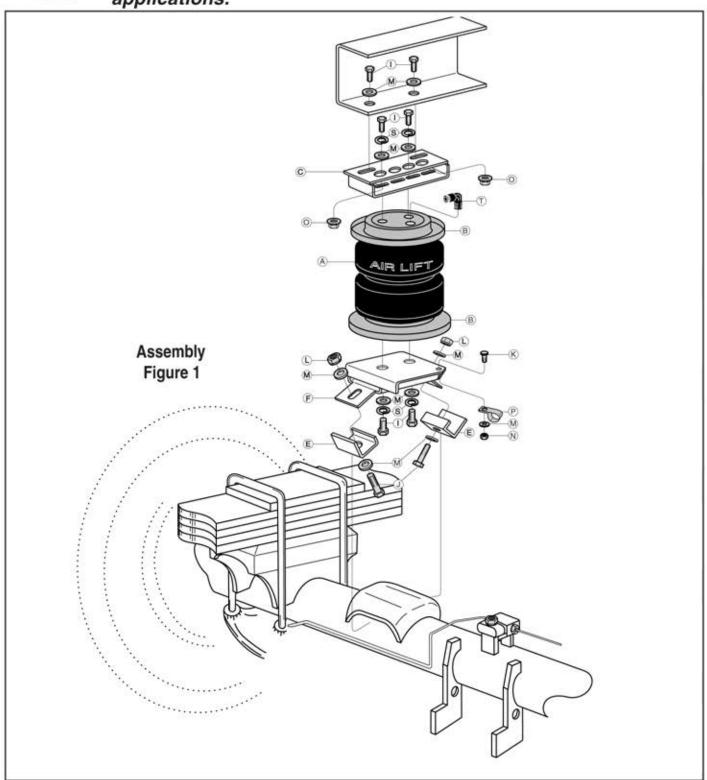


Please read these instructions completely before proceeding with installation



IMPORTANT: The 57250/57252 kit has been designed to fit the Chevrolet 1500 HD and standard 2500 (not HD) models only. The 57250/57252 kit has not been designed to fit any standard duty 1500 models. This kit should not be used for these applications.



Hardware List

ltem	Description	Quantity
Α	Air Springs	2
В	Roll Plates	4
С	Upper Bracket	2
Ε	Retaining Brackets	4
F	Lower Brackets	2
G	Heat Shield Kit	1
-	3/8" x 7/8" Hex Head Bolts	12
J	3/8" x 2" Hex Head Bolts	4
K	5/16" Clinch Bolt (Driver's Side Only)	1
L	3/8" Lock Nut	4
M	Flat Washer	21
Ν	5/16" Lock Nut (Driver's Side Only)	1
0	3/8" Whiz Nut	4
Ρ	Hose Clip (Driver's Side Only)	1
S	Lock Washers	8
Τ	90° Swivel Fitting	2
AA	Air Line Assembly	1
BB	Tie Strap	6
CC	Valve Caps	2
DD	5/16" Flat Washers	2
EE	Rubber Washer	2
FF	Star Washer	2
GG	5/16" Hex Nut	4
HH	Thermal Sleeve	2

Tools Needed

9/16" open-end or box wrenches Ratchet with 15mm, 7/16", 9/16" and 1/2" deep well sockets 3/8" and 5/16" drill bits (very sharp) Heavy Duty Drill Torque Wrench Hose Cutter, Razor Blade, or Sharp

Knife

Hoist or Floor Jacks

Safety Stands

Safety Glasses

Air Compressor, or Compressed Air

Source

Spray Bottle with Dish Soap/Water

Solution

Before You Start

You need to determine Normal Ride Height. 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.

Figure 2



Measure the distance between the center of the hub and the bottom edge of the wheel well. This is the Normal Ride Height. Enter the measurement below:

NORMAL	
RIDE HEIGHT:	inches

Figure 3



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.



CAUTION: Compressed air can cause injury and damage to the vehicle and components 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 Unit

Set a roll plate (B) on both ends of the air spring (A). 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).

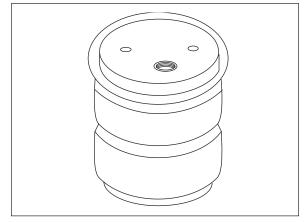


Figure 4

Attach the upper brackets (C) to the air springs with two 3/8-24x7/8" hex head bolts (I), lockwashers(S) and flat washers (M). Leave loose at this time (Fig. 5).

Note: It will be necessary to use the correct holes for driver and passenger side mounting. See diagram to correctly index the bellows and the upper bracket (Fig. 6).

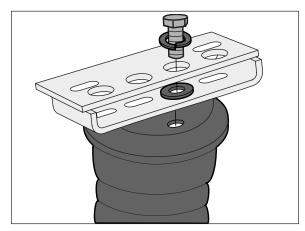


Figure 5

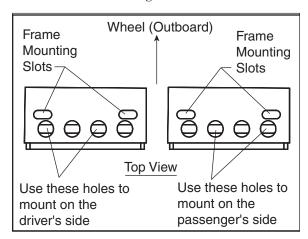
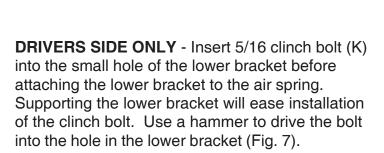


Figure 6



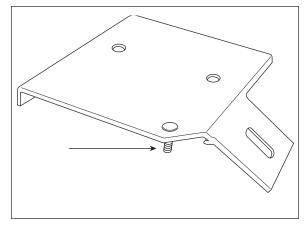


Figure 7

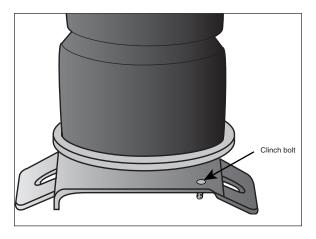


Figure 8

The lower bracket must be attached with the small hole in the lower bracket on the same side as the air port in the air spring.

Note: Be sure to install the assembly with the clinch bolt on the driver side. Refer to diagram (Fig. 7) on page 4.

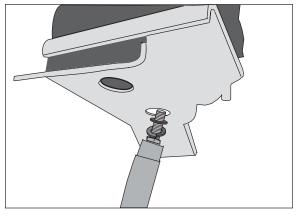


Figure 9

Attach the air spring to the lower bracket. Secure the lower bracket (F) to the air spring (A) with two 3/8-16x7/8" hex head bolts (I), lockwashers (S) and flat washers (M).

Torque to 20 ft. lbs. It may be helpful to use a socket to install the mounting hardware.

CAUTION-Do not cross thread the bolt.

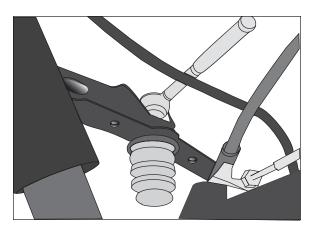


Figure 10

Removing Jounce Bumper

Using a 15mm Socket, remove the jounce bumper from the frame rail (Fig. 10).

The style of jounce bumper will vary depending on the model of the truck.

On some models the jounce bumper may be attached to the frame with a bracket.

Remove the entire jounce bumper bracket and the jounce bumper from the frame rail (Fig. 11).

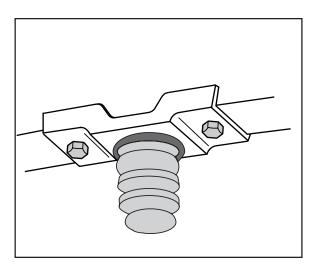


Figure 11

Attaching the Air Spring Assembly

Set assembly on the axle with the air port on top of the bellows toward the inside of the frame rail (Figure 1).

Note: Reference Assembling the Air Spring Unit (page 4), Attaching the Upper Bracket, for driver side and passenger side assemblies.

Set whiz nut (O) up inside of the upper bracket (Fig. 12 & 13) with flange up (Fig. 12).

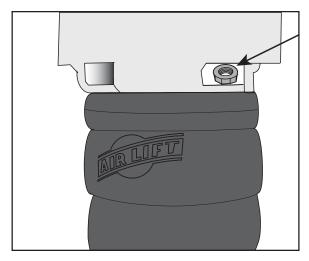


Figure 12

Hold in place with an open end 9/16" wrench.

Put 3/8"x7/8" hex head bolts (I) with flat washers (M) down through the existing jounce bumper hole from the inside of the frame, and attach to the whiz nuts (Fig. 13). Leave loose for adjustment later.

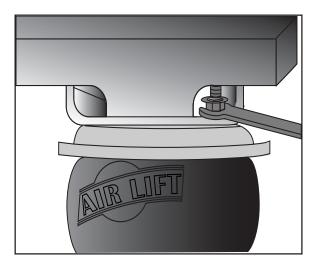


Figure 13

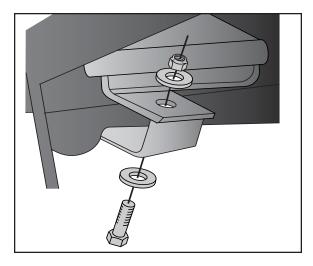


Figure 14

Secure the lower bracket to the jounce bumper strike pad using the retaining bracket (E), 3/8"x2" hex head bolt (J), flat washers (M) and 3/8" lock nut (L) (Fig. 14).

The short leg of the retaining bracket must be under the edge of the jounce bumper strike pad.

Tighten evenly front to back to keep the lower bracket flat and centered on the jounce bumper pad.

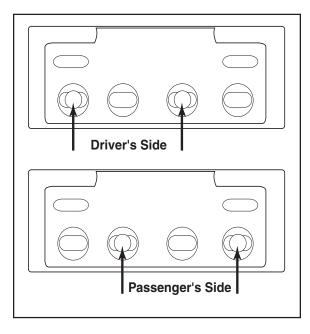
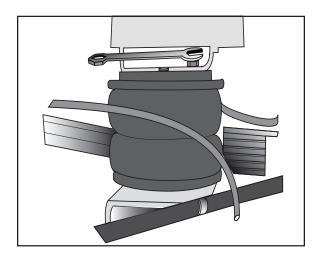


Figure 15

Center the upper bracket, so the bolts are in the center of the slots (Fig. 15).

Adjust bellows at top so bellows is perpendicular to both upper and lower brackets.



Tighten both bellows to top bracket mounting bolts (Fig. 16).

Tighten bracket to frame mounting hardware.

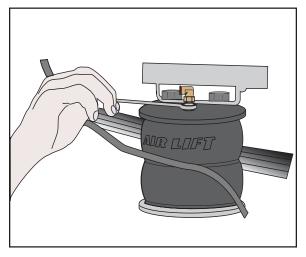


Figure 17

Install the swivel air fitting (T) into the top of the air spring (A). This fitting is pre-coated with sealant. Fingertight plus two full turns with an open-end wrench will seal the fitting (Fig. 17).

Use a 7/16" open end wrench being careful to tighten on the metal hex nut only.

DO NOT OVERTIGHTEN.

DRIVERS SIDE ONLY - Secure Brake Line

Slide the provided clip (P) onto the rubber coated brake line (Fig. 18). Secure the clip (P) to the clinch bolt already installed on the lower bracket (F) with a flat washer (M) and 5/16" nut (N).

BE SURE THE CLIP IS UNDER THE LOWER BRACKET.



Figure 18

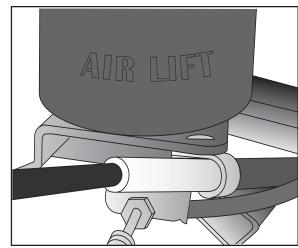


Figure 19

Install the Other Air Spring

You have now completed the installation for one air spring. Repeat the steps on pages 4 through 8 for the other side of the vehicle before you proceed to page 9.

Installing the Air Lines

Choose a convenient location for mounting the inflation valves. Make sure there is enough clearance around the inflation valves for an air chuck. Drill a 5/16" hole to install the inflation valves.

Recommended location is in the wheel well, license plate area or lower body ahead of rear wheel. One on each side provides ease of filling, checking and measuring body height to compensate for side to side lean and sag.

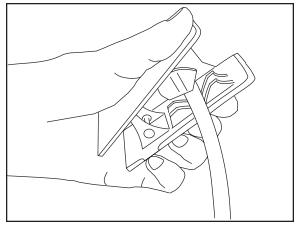


Figure 20

Cut the air line assembly (AA) in two equal lengths (Fig. 20).

When cutting or trimming the air line, use a hose cutter (Air Lift P/N 10530), a razor blade or a sharp knife. A clean, square cut will ensure against leaks (Fig. 21).



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. 22).

Good cut - clean and square

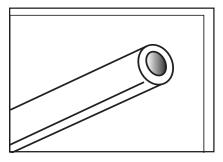


Figure 21

Bad cut - flattened

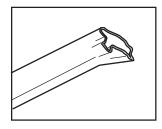


Figure 22

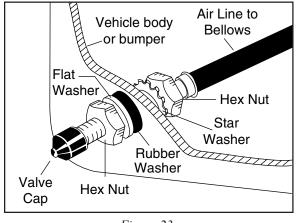


Figure 23

Place a 5/16" nut (GG) and a star washer (FF) 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 (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 (Fig. 23).

Route the air line along the frame to the air spring location on the leaf spring, behind the axle. 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.

PASSENGER SIDE ONLY - Before installing the air line, place a thermal sleeve (HH) on the air line near the exhaust.

Trim the excess air line before inserting it into the air fitting.

Using a standard tube cutter, a razor blade, or very sharp knife to cut the air line. Cut off air line leaving approximately 12 inches of extra air line.

A clean square cut will ensure against leaks (Fig. 21).

Insert the air line into the air fitting (Fig. 24). This is a push to connect fitting. Simply push the air line into the fitting until it bottoms out **(9/16" of air line should be in the fitting)**.

Maintain a smooth bend from the air spring.

Do not kink the air line.

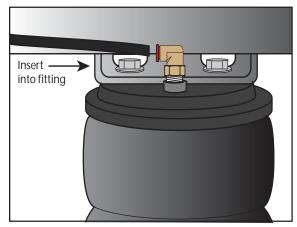


Figure 24

Installing Heat Shield



Bend tabs to provide a 1/2" dead air space between exhaust pipe and heat shield (Fig.25).

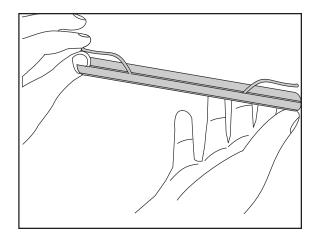


Figure 25

Attach the heat shield (G) to the exhaust pipe using the provided clamps. Bend the heat shield for maximum clearance to the air spring (Fig. 26).

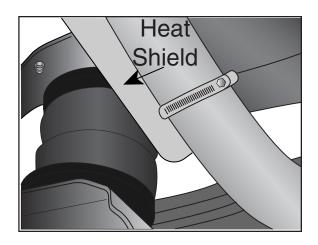


Figure 26

Inflation Decal

Install the minimum/maximum air pressure decal in a highly visible location. We suggest placing it on the driver's side window, just above the door handle.

Checking for Leaks

Inflate the air spring to 60 p.s.i.. Spray all connections and the inflation valves with a solution of 1/3 dish soap and 2/3 water to check for leaks. You should be able to spot leaks easily by looking for bubbles in the soapy water. After the tests, deflate the springs to the minimum pressure required to restore the Normal Ride Height, but do not go below 5 p.s.i.



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

Air Line Connection

Deflate the spring and remove the line by pushing the collar against the fitting and pulling the air line straight out. 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.

Inflation Valve

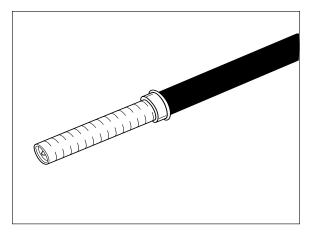
1. Valve Core

Tighten the valve core with a valve core tool.

2. Air Line Connection

When removing air line from a 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.

If the preceding steps have not resolved the problem, call Air Lift Technical Service at 1-800-248-0892 for assistance.



Checklist

You can protect your warranty on this product and prevent unnecessary wear by ensuring the following checks have been made:

Section I	- Installation (To be co	ompleted by the	installer).		
	Clearance Test - Infla around each air spring f drum, frame, shock absorb	from anything that mig	ght rub against them.	here is at least 1/2" clear . Be sure to check the ti	
	2. Leak Test Before Road Test - Inflate the air springs to 60 p.s.i., check all connections for leaks with a soapy water solution. See page 15 of the manual for tips on how to spot leaks. All leaks must be eliminated before the vehicle is road tested.				
	3. Heat Test - Be sure t and air lines.	here is sufficient clea	ırance from heat sou	rces - at least 6" for air s	prings
	4. Fastener Test - Rech	neck all bolts for prope	er torque.		
	Torq	que Guide:			
	All A	Attaching Hardware	20 ft.lbs.		
		vehicle is loaded). Dr		ling tests. Inflate the spr les and recheck for clear	
	Operating Instruction instructions on page 14 came with the kit.			should review the operativner with all of the paper	•
Section II	- Post Installation Ch	ecklist (TO BE	COMPLETED B	Y OWNER)	
		nore than 5 p.s.i., you	ı have a leak that mu	has been used for 24 ho st be fixed. Either fix the	
	2. Air Pressure Require system are as follows:	ements - I understand	I that the air pressure	e requirements of my air	spring
	Minimum	Maximum			
	I also understand that I I was recorded on page 2 always be adjusted so	2 has been restored.	Regardless of load		
	3. Thirty Day or 500 Mil days or 500 miles, which source should be identif abrasion, the air spring the consulted. Check all	hever comes first. If a fied and moved, if pos may need to be remo	any part shows signs ssible. If it is not pos ounted. If profession	sible to relocate the caus	the se of the

Air Pressure Requirements

MAXIMUM AIR PRESSURE

Loaded or Unloaded Vehicles ------- 100 PSI Do not exceed the maximum Gross Vehicle Weight Rating (GVWR) as specified by the vehicle manufacturer. The GVWR will be found in either the Owner's Manual or the Specification Plate on the driver's side inside door jamb. It is important to understand that air springs do not increase the GVWR of your vehicle. The GVWR is determined by tires, wheels, axles, suspension and driveline.

the driver's side inside door jamb. It is important to understand that air springs do not increase the GVWR of your vehicle. The GVWR is determined by tires, wheels, axles, suspension and driveline. The purpose of air springs is to keep the vehicle level and balanced, which by doing so improves ride and handling for a vehicle, whether loaded or unloaded. Operating your vehicle in excess of the GVWR will void the Air Lift Limited Warranty.

MINIMUM AIR PRESSURE

<u>Load</u>	Air Pressure
1000 lbs	25-35 psi
2000 lbs	45-55 psi
3000 lbs	70-80 psi
4000 lbs	90-100 psi

Again, the above chart is a general guideline, use enough pressure to level your vehicle to the regular factory ride height. The required air pressure will vary depending on the state of the original suspension. Operating the vehicle below the recommended minimum air spring pressures may void your Air Lift Limited Warranty.

Tips and Techniques

- 1. **ADDING AIR** Always add air to the air springs in small quantities. The volume of air in an air spring is small in relation to a tire. Too much air, too quickly can overinflate and damage the air spring.
- 2. **PERIODIC CHECKING OF AIR PRESSURE** Check the pressure in your air springs weekly or prior to driving the vehicle if it has been in storage for a month or more. The number one cause of air spring failure is driving the vehicle with too low of air pressure.
- 3. **FRAME CONTACT HOIST** Prior to lifting the vehicle on a frame contact hoist where the suspension hangs free, reduce your air spring air pressure to 5 psi to reduce the tension on the suspension components.
- 4. **RIDE COMFORT** If the rear of the vehicle is stiff or bouncy, reduce the air pressure in 5 psi increments to smooth the ride. If the ride is choppy or the vehicle bottoms out on bumps and dips, increase the air pressure in 5 psi increments until the ride is smooth or the bottoming stops.
- 5. **FASTENER CHECK** Periodically check all of the air spring system fasteners for tightness. Also check your air spring for any signs of rubbing and realign to eliminate rubbing if necessary.
- 6. **CLEAN UP** Give your air springs a good hard spray will a garden hose periodically to remove mud, sand, gravel or other abrasive debris

Troubleshooting Guide

1. Problems maintaining air pressure

WITHOUT ON-BOARD COMPRESSOR



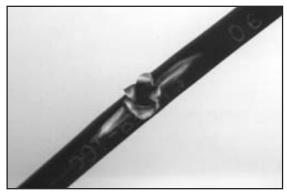
Leak test the air line connections and threaded connection of the elbow into the air spring. See page 12 to repair.



Inspect air lines to be sure it is not pinched. Tie straps may be too tight. Loosen or replace strap. Replace leaking components.



Leak test the inflation valve for leaks at the air line connection or dirt or debris in the valve core. See page 12 for repair.



Inspect air line for holes and cracks. Replace as needed.



A kink or fold in the air line. Re-route as needed.

You have now tested for all of the most probable leak conditions that can be easily fixed. At this point the problem is most likely a failed air spring - either a factory defect or an operating problem. We suggest that you return the vehicle to your installer. If self-installed or you are the professional installer, please call Air Lift at 1-800-248-0892 for assistance or a replacement air spring.

Notes

You may find this space useful for recording information about your system (i.e. weekly pressure readings). Also record any information from your installer or Air Lift technical assistance personnel.



Product Use Information

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 time 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

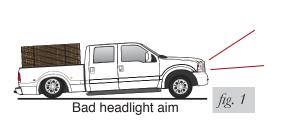
If the vehicle's headlights are shining into the trees or the vehicle is leaning to one side, then it is not level (fig. 1). Raise the air pressure to correct either of these problems and level the vehicle.

2. Ride comfort

If the vehicle has a rough and harsh ride it may be due to either too much pressure or not enough (fig. 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. 3). Tuning out these problems usually requires an increase in pressure.



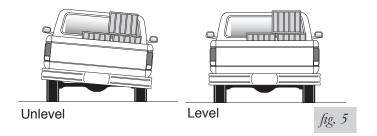




Guidelines for adding air:

- 1. Start with the vehicle level or slightly above.
- 2. When in doubt, always add air.
- 3. For motorhomes, start with 50-100 PSI in the rear because it can be safely assumed that it is heavily loaded.
- 4. If the front of the vehicle dives while braking, increase the pressure in the front air bags, if equipped.
- 5. If it is ever suspected that the air bags have bottomed out, increase the pressure (fig. 4).
- 6. Adjust the pressure up and down to find the best ride.
- 7. If the vehicle rocks and rolls, adjust the air pressure to reduce movement.
- 8. 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. 5). As much as a 50 PSI difference is not uncommon.





Warranty and Returns Policy

Air Lift Company warrants its products, for the time periods listed below, to the original retail purchaser against manufacturing defects when used on catalog-listed applications on cars, vans, light trucks and motorhomes under normal operating conditions for as long as Air Lift manufactures the product. The warranty does not apply to products that have been improperly applied, improperly installed, used in racing or off-road applications, used for commercial purposes, or which have not been maintained in accordance with installation instructions furnished with all products. The consumer will be responsible for removing (labor charges) the defective product from the vehicle and returning it, transportation costs prepaid, to the dealer from which it was purchased or to Air Lift Company for verification.

Air Lift will repair or replace, at its option, defective products or components. A minimum \$10.00 shipping and handling charge will apply to all warranty claims. Before returning any defective product, you must call Air Lift at (800) 248-0892 in the U.S. and Canada (elsewhere, (517) 322-2144) for a Returned Materials Authorization (RMA) number. Returns to Air Lift can be sent to: Air Lift Company • 2727 Snow Road • Lansing, MI • 48917.

Product failures resulting from abnormal use or misuse are excluded from this warranty. The loss of use of the product, loss of time, inconvenience, commercial loss or consequential damages is not covered. The consumer is responsible for installation/reinstallation (labor charges) of 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.

This warranty gives you specific legal rights and you may also have other rights that vary from state-to-state. Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of incidental or consequential damages. The above limitation or exclusion may not apply to you. There are no warranties, expressed or implied including any implied warranties of merchantability and fitness, which extend beyond this warranty period. There are no warranties that extend beyond the description on the face hereof. Seller disclaims the implied warranty of merchantability. (Dated proof of purchase required.)

Air Lift 1000RideControlSlamAir	Lifetime Limited	Load Controller (I)	2 Year Limited 2 Year Limited
LoadLifter 5000* EasyStreet Systems		Wireless AIROther Accessories	

*formerly SuperDuty