



# LoadLIFTER 5000™

S E R I E S

Installation  
Guide



*2011-current Chevrolet Silverado HD and GMC Sierra HD*  
**Kits 57338 | 88338 | 89338**

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

## IDENTIFYING THE DIFFERENCES BETWEEN KITS

Should you need to contact Air Lift customer service, you will need to know which kit you are inquiring about: standard LoadLifter 5000, LoadLifter 5000 Ultimate or LoadLifter 5000 Ultimate Plus. The kits are easily identifiable by looking at the roll plates and air lines.

- Standard **LoadLifter 5000** – Zinc-plated steel roll plates and black nylon air lines.
- LoadLifter 5000 Ultimate** – Black powder-coated roll plates and black nylon air lines.
- LoadLifter 5000 Ultimate Plus** – Stainless steel roll plates, braided stainless steel air lines, stainless steel air spring mounting hardware.

Air Lift offers two Ultimate Plus upgrade kits:

**52300** - Braided stainless steel air line and fittings.

**52301** - Stainless steel roll plates, air spring mounting hardware, braided stainless steel air lines and fittings.



LoadLifter 5000  
silver zinc-plated steel  
roll plate



LoadLifter 5000 Ultimate  
black powder-coated  
roll plate



LoadLifter 5000 Ultimate Plus  
stainless steel  
roll plate



LoadLifter 5000  
nylon air line



LoadLifter 5000 Ultimate  
nylon air line



LoadLifter 5000 Ultimate PLUS  
braided stainless steel air line

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# Installation Diagram

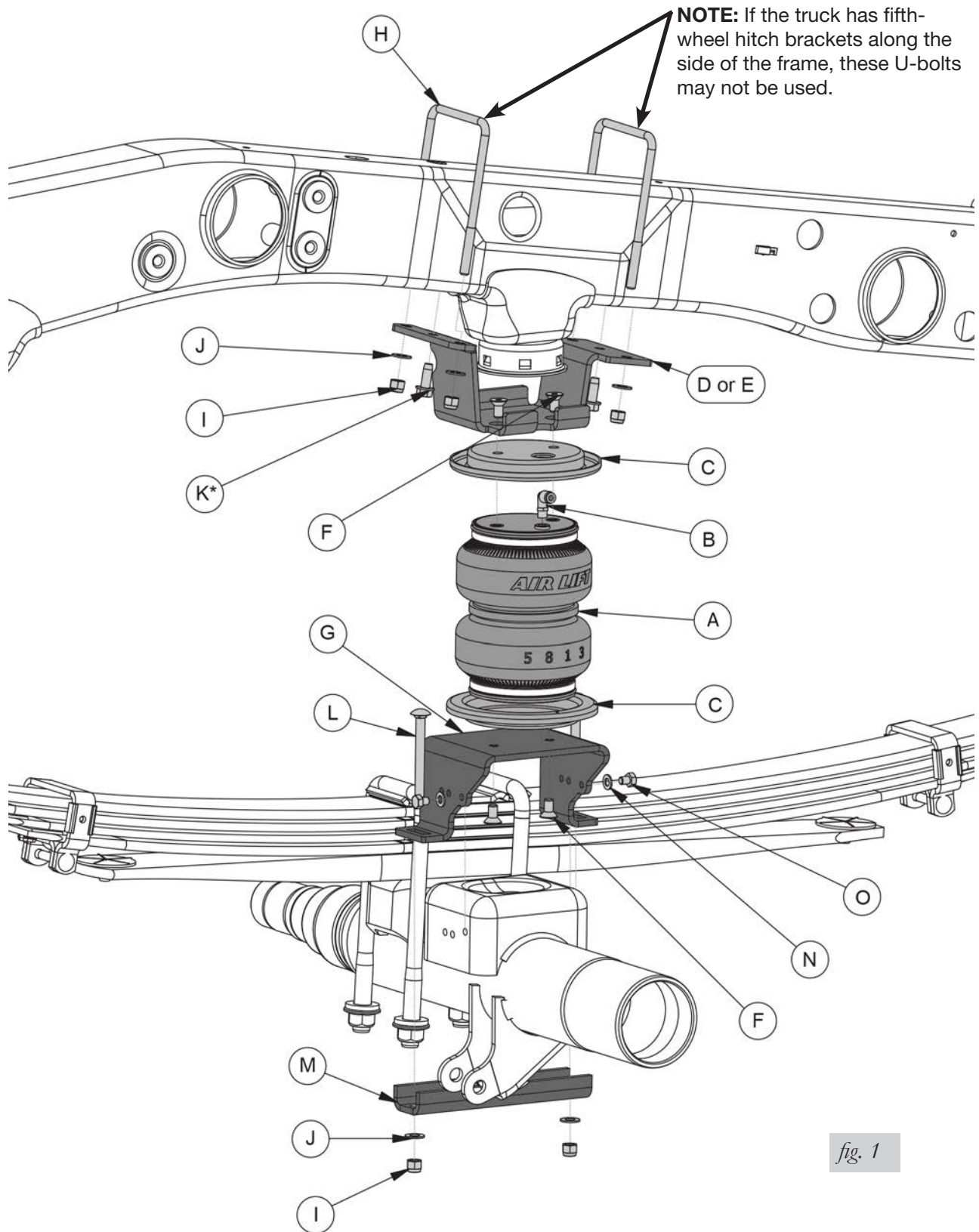


fig. 1

\* Optional hardware for vehicles equipped with fifth-wheel hitches that have frame side plates (see page 8 for details)



# Hardware and Tools Lists

## Common Parts Included in All 3 Kits

Item	Part#	Description	Qty
D	07276	Upper bracket, right	1
E	07377	Upper bracket, left	1
G	03962	Lower bracket	2
H	11046	U-bolt	4
I	18435	3/8"-16 Nylon lock nut	12
J	18444	3/8" Flat washer	12
K	17129	3/8" Self-tapping screw	4
L	17142	3/8"-16 x 3.5" Carriage bolt	4
M	01851	Clamp bar	2
O	17449	M8-1.25 x 10mm Hex cap screw	3
P*	18422	3/8"-16 Serrated flange lock nut	1
Q*	26333	Emergency brake cable bracket	1
EE*	21234	Rubber washer	2

\* not pictured in the Installation Diagram

## TOOLS LIST

Description	Qty
Standard and metric open-end or box wrenches	SET
Ratchet	1
Standard and metric, regular and deep-well sockets	SET
7/32" Hex-key wrench	1
5/16" drill bits (very sharp)	1
Heavy-duty drill	1
Torque wrench	1
Hose cutter, razor blade or sharp knife	1
Hoist or floor jacks	1
Safety stands	2
Safety glasses	1
Air compressor or compressed air source	1
Spray bottle with dish soap/water solution	1

The photos in this manual show the LoadLifter 5000 Ultimate kit.

## Unique Parts in Each Kit

### LoadLIFTER 5000™ KIT 57338

Item	Part#	Description	Qty
A	58437	Air spring	2
B	21848	Push-to-connect fitting	2
C	11951	Roll plate (silver zinc plated)	4
F	17215	3/8"-24 x 3/4" flat-head screw	8
N	18501	M8 Flat washer	5
AA*	20086	Air line	1
BB*	10466	Zip tie	6
CC*	21230	Valve cap	2
FF*	18411	Star washer	2
GG*	21233	5/16" Hex nut	4

### LoadLIFTER 5000™ ULTIMATE KIT 88338

Item	Part#	Description	Qty
A	58496	Air spring with jounce bumper	2
B	21848	Push-to-connect fitting	2
C	11967	Roll plate (black powder coated)	4
F	17215	3/8"-24 x 3/4" Flat-head screw	8
N	18501	M8 Flat washer	5
AA*	20086	Air line	1
BB*	10466	Zip tie	6
CC*	21230	Valve cap	2
FF*	18411	Star washer	2
GG*	21233	5/16" Hex nut	4

### LoadLIFTER 5000™ ULTIMATE PLUS+ KIT 89338

Item	Part#	Description	Qty
A	58496	Air spring with jounce bumper	2
B	21815	AN-type fitting	2
C	11880	Roll plate (stainless steel)	4
F	17363	3/8"-24 x 3/4" Stainless steel flat-head screw	8
N	18501	M8 Flat washer	3
AA*	20987	Stainless steel braided air line	2
BB*	10466	Zip tie	12
DD*	18572	M8 Stainless steel flat washer	2
FF*	18623	Stainless steel star washer	2
HH*	21709	Schrader valve with cap & nut	2
II*	21813	AN to PTC fitting	2
JJ*	20084	Air line assembly	1

# Introduction

The purpose of this publication is to assist with the installation, maintenance and troubleshooting of the standard LoadLifter 5000, LoadLifter 5000 Ultimate or LoadLifter 5000 Ultimate Plus air spring kits. All LoadLifter 5000 Series kits utilize sturdy, reinforced, commercial-grade single or double, depending on the kit, convolute bellows. LoadLifter 5000 Ultimate kits add an internal jounce bumper and black powder-coated roll plates. LoadLifter 5000 Ultimate Plus kits also have an internal jounce bumper, but add stainless steel roll plates, braided stainless steel air lines and stainless steel air spring mounting hardware.

The air springs are manufactured like a tire with layers of rubber and cords that control growth. LoadLifter 5000 series kits are recommended for most 3/4- and 1-ton pickups and SUVs with leaf springs and provide up to 5,000 pounds of load-leveling support with air adjustability from 5-100 PSI.

It is important to read and understand the entire installation guide before beginning installation or performing any maintenance, service or repair.

Air Lift Company reserves the right to make changes and improvements to its products and publications at any time.

## IMPORTANT SAFETY NOTICE

The installation of this kit does not alter the gross vehicle weight rating (GVWR) or payload of the vehicle. Check the vehicle's owner's manual and do not exceed the maximum load listed for this 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.



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## NOTE

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

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# Installing the LoadLifter 5000 Series System

## GETTING STARTED

1. Raise the frame and support the frame with jack stands. Lower the axle as far as it can go.
2. Remove the jounce bumpers from the jounce bumper brackets on both sides by prying them out with a pry bar or large screwdriver (Figs. 2 & 3).

Jounce bumper  
in mounting cup

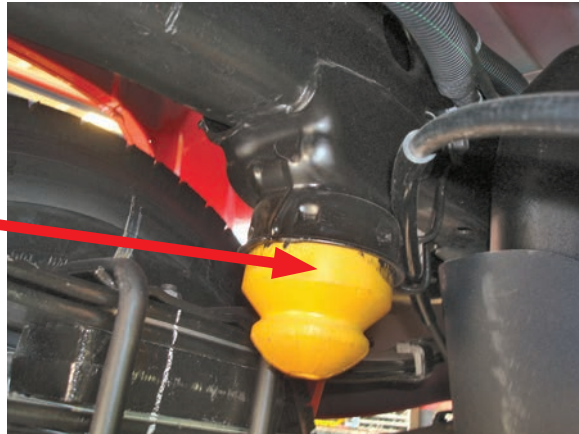


fig. 2

Jounce bumper  
removed



fig. 3

3. Remove the bolt that holds the emergency bracket to the inside of the driver's side frame rail (Figs. 4 & 5).



fig. 4

Remove the bolt and discard  
the wire retaining bracket

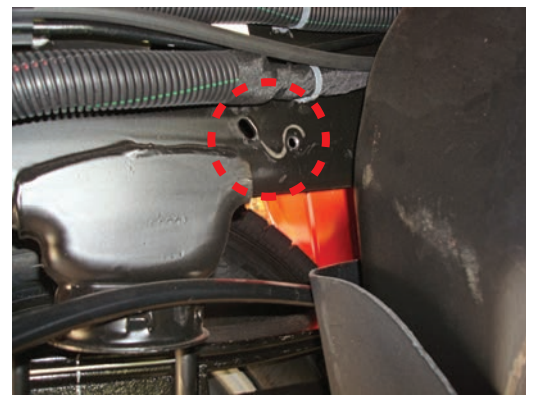
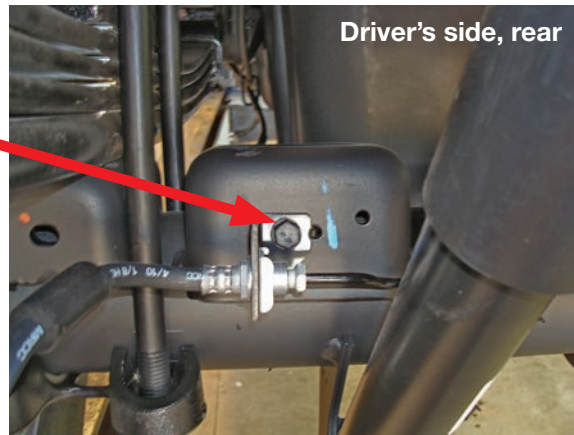


fig. 5

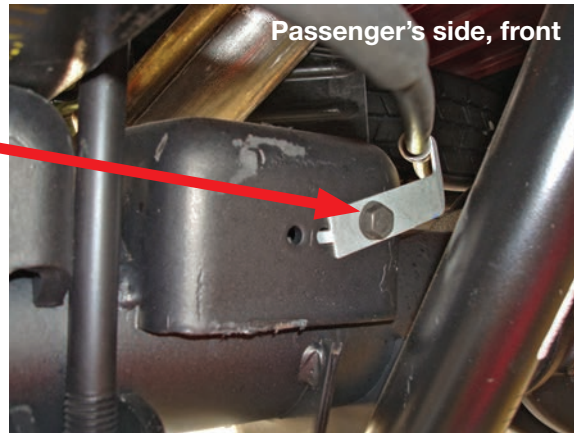
4. Remove the three bolts that hold the brake lines to the rear axle jounce bumper strike plates (Figs. 6 & 7).
5. Pull the lines clear of the jounce bumper strike plate on the axle to make room for the lower bracket (Fig. 7).

Remove the bolt holding the brake line to the jounce bumper strike plate in the rear on both driver's and passenger's side.



*fig. 6*

Remove the bolt holding the emergency brake cable on the front of the passenger's side jounce bumper strike plate.



*fig. 7*

## BUILDING THE AIR SPRING ASSEMBLY

1. Set a roll plate (C) on both ends of the air spring (A). The radiused (round) edge of the roll plate will be toward the air spring, enabling the air spring to be seated in both roll plates.
2. Install the 90-degree elbow fitting (B) on top of the air spring. Tighten finger tight plus 1 and a 1/2 turns. Be careful to only tighten on the metal hex nut. Do not over tighten (Fig. 1).
3. Install the upper brackets (D or E) onto the top of the air springs using the 3/8" flat-head bolts (F) (Fig. 1). Tighten securely.
4. Install the lower brackets onto the air spring assembly using the 3/8" flat-head bolts.

### NOTE

*The angled portion of the lower bracket will be on the fitting side of the air spring (Fig. 1).*



## POSITIONING THE AIR SPRING ASSEMBLY ON THE AXLE

1. With the suspension hanging, set the left and right hand units over the axle jounce bumper strike plates (Fig. 1).

**NOTE**

*The fittings will be on the inside of the frame.*

2. Position the upper brackets to nest around the jounce bumpers that are under the frame (Fig. 1).

## ATTACHING THE UPPER BRACKETS

There are two ways to attach the upper bracket:

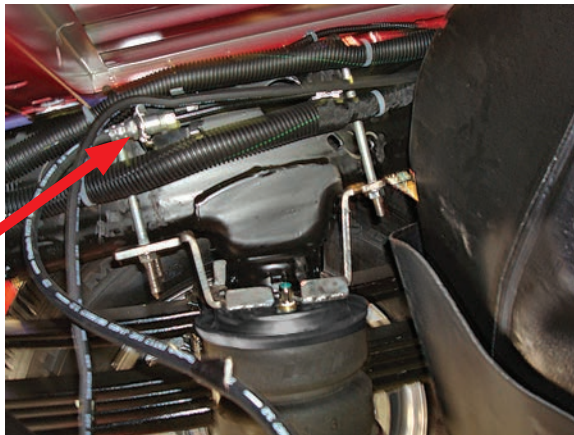
For trucks that do not have a fifth-wheel hitch bracket along side of the frame:

1. Insert two U-bolts (H) onto the top of the frame and through the upper bracket mounting holes (Fig. 8).

**NOTE**

*It may be necessary to raise the axle at this point for the upper bracket to reach the frame.*

Insert the U-bolts between the brake line and harness as shown. Do not pinch these items between the U-bolt and frame.



*fig. 8*

2. Cap with four 3/8" nylon lock nuts (I) and flat washers (J). Torque U-bolts evenly in a criss cross pattern to 10 lb.-ft. (14Nm). Repeat for the opposite side.

**TECH TIP**

*Stuff a shop towel between the gas tank and shield to keep washer or nut from falling in between in case they are dropped during installation.*

**CAUTION**

THE DRIVER'S SIDE HAS A BRAKE LINE AND A WIRING HARNESS RUNNING ALONG THE INSIDE OF THE FRAME. MAKE SURE THE U-BOLT IS BETWEEN THESE ITEMS AND THE FRAME (DO NOT PINCH THESE ITEMS) (FIG. 8).

**NOTE**

*On the passenger's side of some models, it may be necessary to bend the heat shield slightly to allow the U-bolt to go over the frame correctly (Fig. 9).*

Bend heat shield here if necessary.



*fig. 9*

For trucks that have fifth-wheel hitch brackets along side the frame rail:

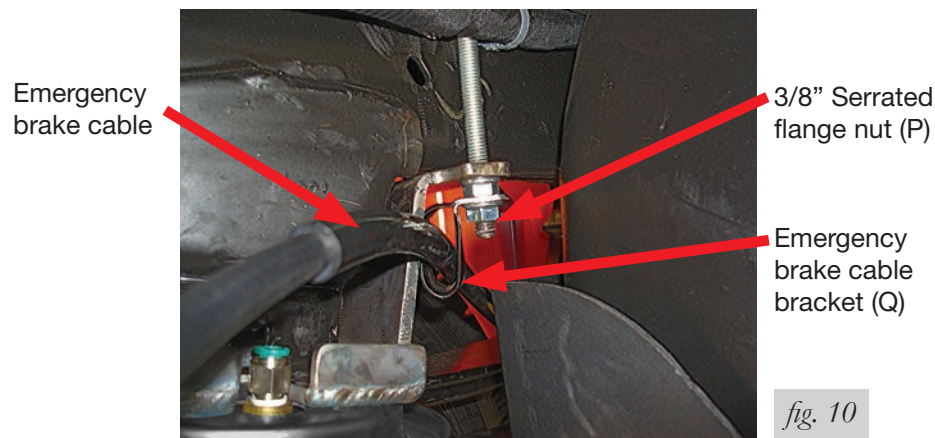
1. There are holes in the middle of the bracket just forward and behind the jounce bumper mounting cups on the upper bracket (Fig. 1). Once the upper brackets are in position, drill two 5/16" holes through the bottom of the frame using the holes as a template and attach the upper brackets using the self-tapping screws (K). Torque all four fasteners to 15 lb.-ft. (20Nm).

## REATTACHING THE EMERGENCY BRAKE CABLE TO FRAME

1. Attach the emergency brake cable removed in the "Getting Started" section with the emergency brake cable bracket (Q) and 3/8" serrated flange lock nut (P) (Fig. 10). Use the inside forward leg of the U-bolt on the driver's side for the attachment. Tighten securely.

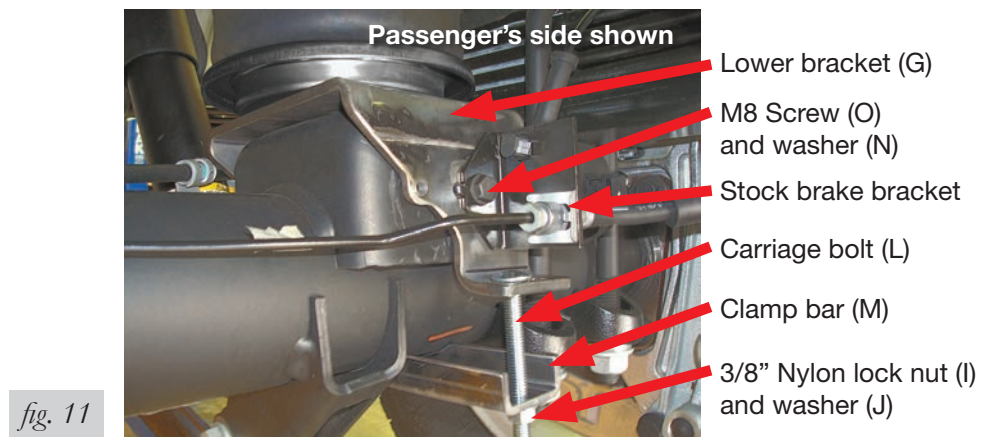
### NOTE

*It may be necessary to pinch the clamp together with pliers to align the two holes closely enough to get over the U-bolts.*



## ATTACHING THE LOWER BRACKETS

1. Position the lower bracket in/out to best align the air spring. Insert two 3/8" carriage bolts (L) through lower bracket mounting legs (Fig. 11).

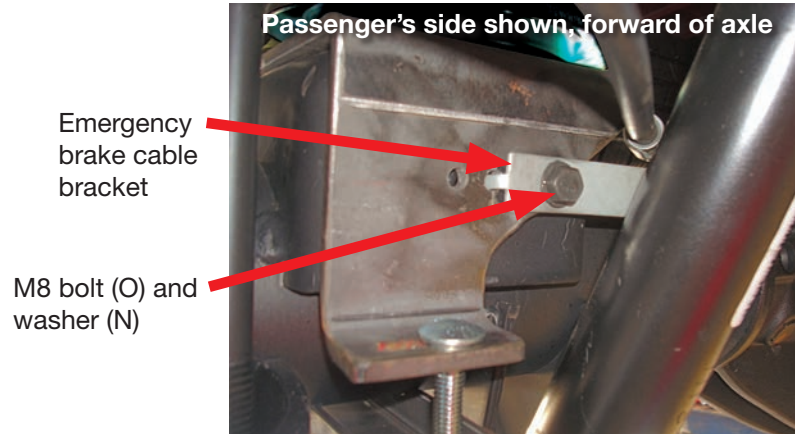


2. Insert the lower clamp bar (M) over the two carriage bolts previously installed and cap with two 3/8" nylon lock nuts (I) and flat washers (J). Torque evenly to 16 lb.-ft. (22Nm).
3. Attach the brake lines that were un-bolted from the rear of the axle in the "Getting Started" section by attaching them to the lower bracket with the new M8 screws (O) and flat washers (N) provided (Fig. 11). Tighten securely.

4. Attach the brake cable on the passenger's side, forward of the axle with the new M8 screw (O) and flat washer (N). Tighten securely.

**NOTE**

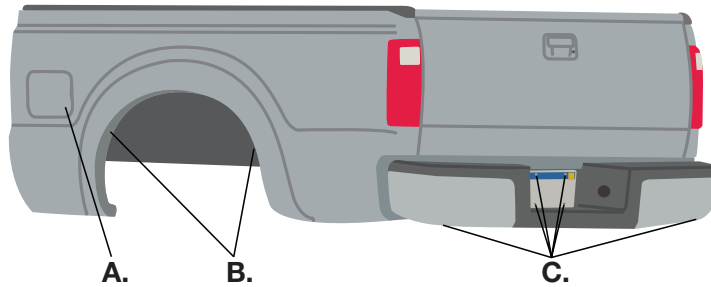
*It may be necessary to slightly bend this bracket to clear the edge of the lower bracket (Fig. 12).*



*fig. 12*

# Installing the Air Lines

Air lines are routed from the air springs to Schrader valves. LoadLifter 5000 Series air lines come in two styles: nylon and braided stainless steel. Begin by choosing locations for the Schrader valves and drill a 5/16" hole, if necessary (Fig. 13).


*fig. 13*

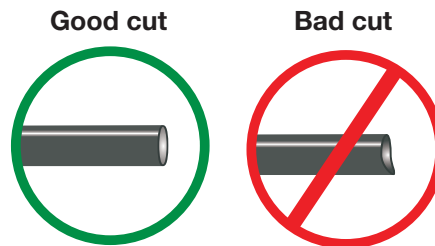
\* For LoadLifter Ultimate Plus kits, the recommended location for the Schrader valves is the rear bumper area or license plate.

**CAUTION**

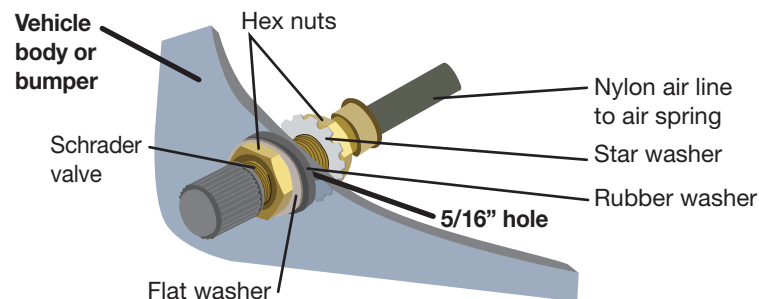
KEEP AT LEAST 6" OF CLEARANCE BETWEEN ALL AIR LINES AND THE EXHAUST SYSTEM. AVOID SHARP BENDS AND EDGES.

## INSTALLING NYLON AIR LINES

1. Cut the air line in half. Make clean, square cuts with a razor blade or hose cutter (Fig. 14). Do not use scissors or wire cutters.


*fig. 14*

2. Use zip ties to secure the air line to fixed points along the chassis. Do not pinch or kink the air line. The minimum bend radius for the air line is 1". Leave at least 2" of slack in the air line to allow for any movement that might pull on the air line.
3. Install the Schrader valve in the chosen location (Fig. 15).


*fig. 15*

## INSTALLING BRAIDED STAINLESS STEEL AIR LINES

**CAUTION**

KEEP THE AIR LINE AWAY FROM THE FUEL LINE, BRAKE LINES AND ELECTRICAL WIRES.

1. Use zip ties to secure the air line to fixed points along the chassis every 6" to 8". Leave at least 2" of slack to allow for any movement that might pull on the air line.
2. Tighten the air line hex nut finger tight, then use 2 wrenches to turn 1 additional flat (1/6 of one full turn). **Do not overtighten** (Figs. 16 or 17). The easiest way to tighten the fitting is off the vehicle. Install the Schrader valve in the chosen location.
3. Coil and secure any excess air line in an area where it will not be susceptible to damage. The braided stainless steel air line cannot be trimmed.

### Air Line Setup Without Compressor System

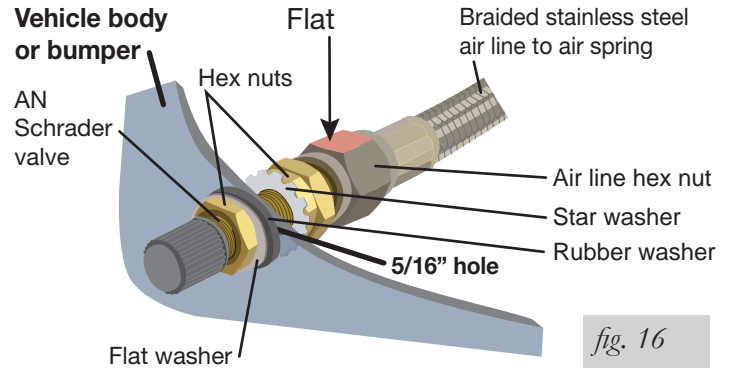


fig. 16

### Air Line Setup for Compressor Integration

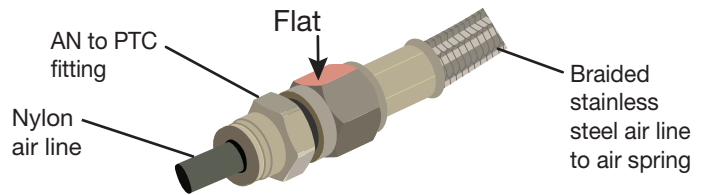


fig. 17

## INSTALLING THE HEAT SHIELD

1. Attach the metal heat shield to the exhaust where it is closest to the air spring. (Fig. 18).

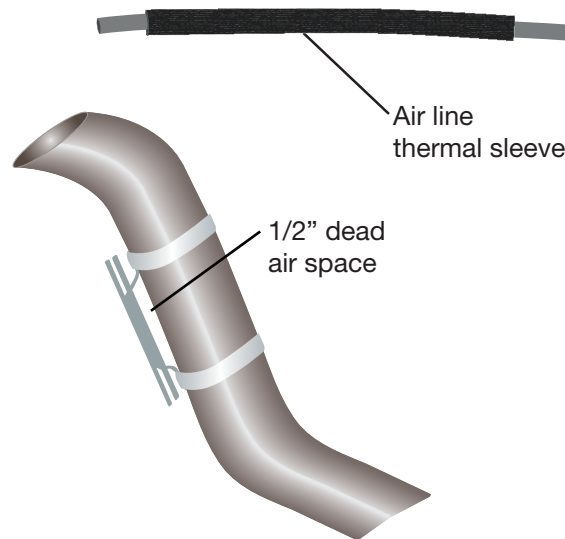


fig. 18

# Before Operating

## 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 PSI.

## 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. 14). Reinsert the air line into the push-to-connect fitting.
  - b. Check the threaded connection by tightening the swivel fitting another half 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.
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.

**CAUTION**

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

## INSTALLATION CHECKLIST

- Clearance test** — Inflate the air springs to 75-90 PSI and make sure there is at least 1/2" clearance from anything that might rub against each sleeve. Be sure to check the tire, brakes, frame, shock absorbers and brake cables.
- Leak test before road test** — Inflate the air springs to 75-90 PSI and check all connections for leaks. All leaks must be eliminated before the vehicle is road tested.
- Heat test** — Be sure there is sufficient clearance from heat sources, at least 6" for air springs and air lines.
- Fastener test** — Recheck all bolts for proper torque.
- Road test** — The vehicle should be road tested after the preceding tests. Inflate the springs to recommended driving pressures. Drive the vehicle 10 miles and recheck for clearance, loose fasteners and air leaks.
- Operating instructions** — If professionally installed, the installer should review the operating instructions with the owner. Be sure to provide the owner with all of the paperwork that came with the kit.

## 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** — It is important to understand the air pressure requirements of the air spring system. Regardless of load, the air pressure should always be adjusted to maintain adequate ride height at all times while driving.
- 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 air pressure weekly.
2. Always maintain normal ride height. Never inflate beyond 100 PSI.
3. If the system develops an air leak, 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 SAFETY AND TO PREVENT POSSIBLE DAMAGE TO THE VEHICLE, DO NOT EXCEED MAXIMUM GROSS VEHICLE WEIGHT RATING (GVWR), AS INDICATED BY THE VEHICLE MANUFACTURER. ALTHOUGH THE AIR SPRINGS ARE RATED AT A MAXIMUM INFLATION PRESSURE OF 100 PSI, THE AIR PRESSURE ACTUALLY NEEDED IS DEPENDENT ON LOAD AND GVWR.

4. Loaded vehicles require at least 25 PSI. A “loaded vehicle” refers to a vehicle with a heavy bed load, a trailer or both. Never exceed GVWR, regardless of air spring, air pressure or other load assist. The springs in this kit will support approximately 40 pounds 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 air pressure to maintain 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 to remove mud, sand, gravel or other debris.



## TUNING THE AIR PRESSURE

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

### 1. Level vehicle

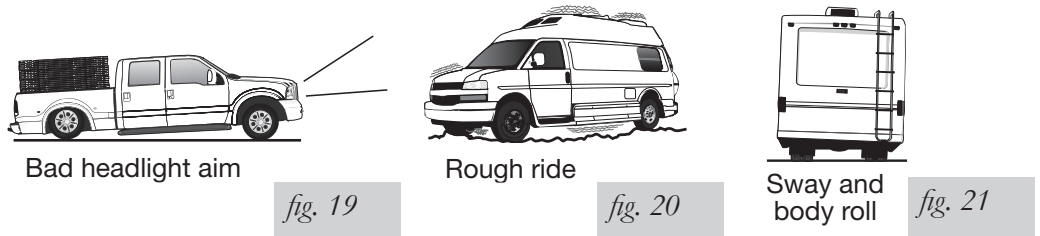
If the vehicle's headlights are shining into the trees or the vehicle is leaning to one side, then it is not level (Fig. 19). Raise the air pressure to correct either of these problems and level the vehicle.

### 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. 20). Try different pressures to determine the best ride comfort.

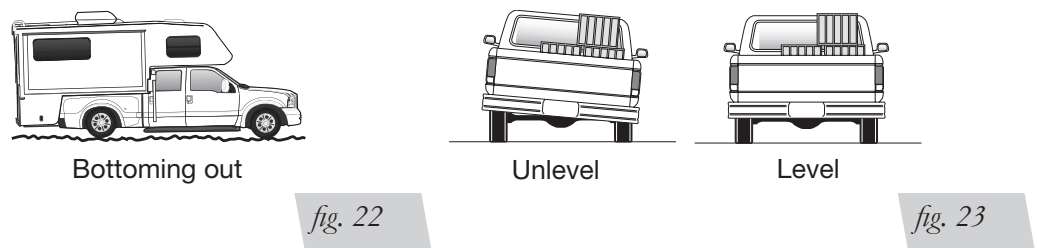
### 3. Stability

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. 21). 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. 22).
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. 23). As much as a 50 PSI difference is not uncommon.



# Troubleshooting Guide

PROBLEM	CAUSE	SOLUTION
System won't maintain pressure overnight.	Improperly installed air line, air line has holes or cracks.	Leak test the air line connections, the threaded connection into the air spring, and all fittings in the control system.
Air spring or air line leak.	Fitting seal or air line is compromised.	Check to make sure air lines are seated in connectors. Inspect fittings with soapy water. Trim hose or re-seal fitting. Ensure lines are cut straight.
Corner won't raise or air leak develops.	Look for a kink or fold in the air line.	Replace any air line that has been kinked.

## 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 standard, Ultimate and Ultimate Plus, the recommended minimum air pressure is 5 PSI, but it can safely be run at zero air pressure unladen (no load).

**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.