

LoadLifter 5000™

ULTIMATE

ADJUSTABLE AIR HELPER SPRINGS

TOW AND HAUL WITH SAFETY AND COMFORT™



Kit Number
88240

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.

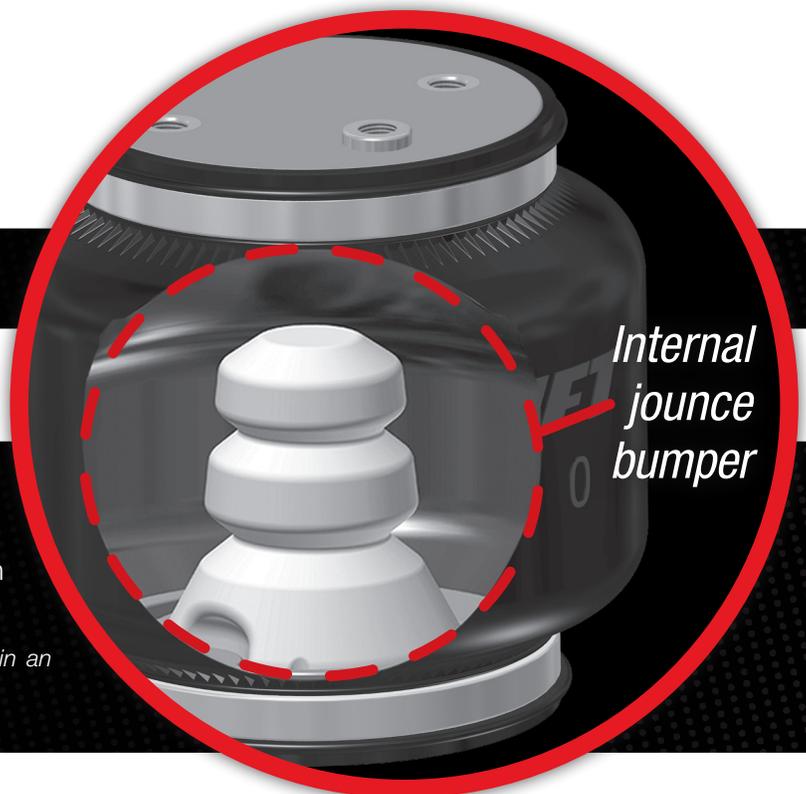


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Introduction

The purpose of this publication is to assist with the installation and maintenance 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 and safety information.

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.

NOTATION EXPLANATION

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

 **DANGER**

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

 **WARNING**

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

 **CAUTION**

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

NOTE

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

Installation Diagram

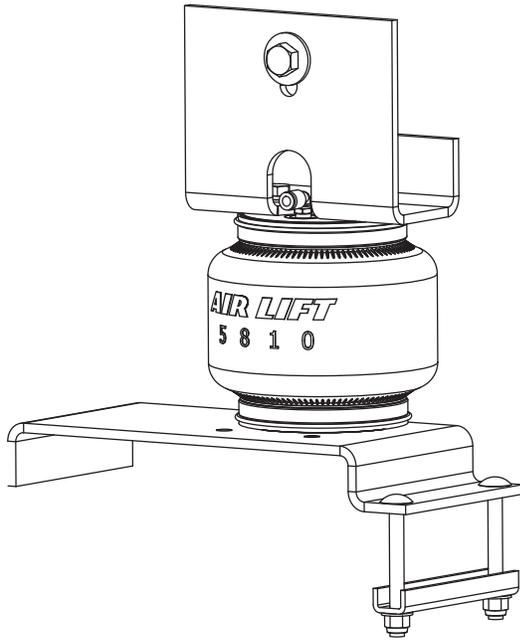
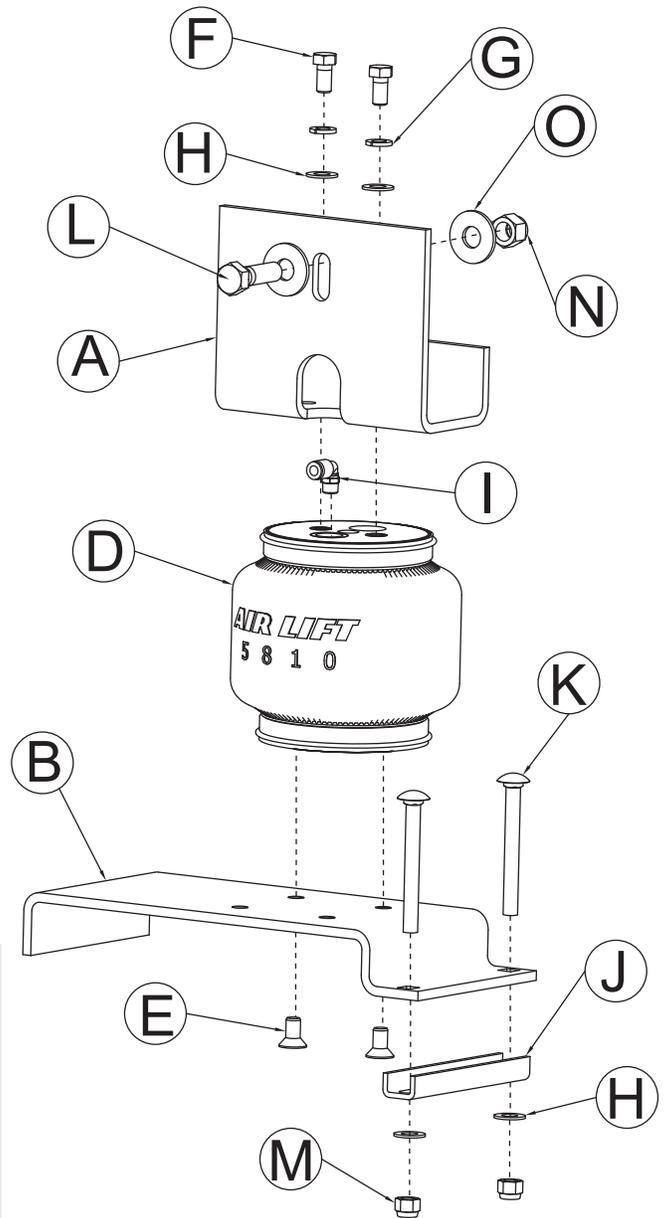


fig. 1



HARDWARE LIST

Item	Part #	Description	Qty
A	07991	Upper Bracket.....	2
B	03989	Lower Bracket.....	2
C	11084	Spacer.....	1
D	58740	Air Springs	2
E	17215	3/8"-24 X 3/4" Flat Head Screw	4
F	17203	3/8"-24 X 3/4" Hex Cap Screw	4
G	18427	3/8" Split Lock Washer	4
H	18444	3/8" Flat Washer	8
I	21848	90 Degree Swivel Fitting	2
J	01665	Clamp Bar.....	2
K	17142	3/8"-16 X 3 1/2" Carriage Bolt.....	4
L	17247	1/2"-13 X 1 3/4" Hex Cap Screw.....	2
M	18435	3/8"-16 Nylon Lock Nut.....	4
N	18460	1/2"-13 Nylon Lock Nut.....	2
O	18485	1/2" Flat Washer	4
P*	20086	Air Line Assembly	1
Q*	10466	Zip Ties	6
R*	18501	M8 Flat washer	2
S*	18411	5/16" Serrated Lock Washer.....	2
T*	21230	Valve Cap.....	2
U*	21233	5/16" Hex Nut.....	4
V*	21234	5/16" Flat Washer	2

* Not shown in installation diagram.

TOOLS LIST

- Description**
- Standard Open End or Box End Wrenches
 - Ratchet with standard sockets
 - Drill and 5/16", 1/2" Drill Bits
 - Torque Wrench
 - Hose Cutter, Razor Blade or Sharp Knife
 - Safety Glasses
 - Air Compressor or Compressed Air Source
 - Spray Bottle with Dish Soap/Water Solution



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

Installing the LoadLifter 5000 Ultimate System

ASSEMBLING THE AIR SPRING

1. Install the 90 degree swivel fitting (I) onto the air springs (D) finger tight plus one and a half turns. Do not over tighten.
2. Set the upper bracket (A) onto the air springs (Fig. 2) so that the fitting is in the slot of the bracket.
3. Attach the upper bracket using the two 3/8" bolts (F), lock washers (G) and flat washers (H). Tighten to 20 lb.-ft. (27Nm).

Fitting on air spring goes into the slot in the upper bracket.

Bracket attaches with 3/8" bolt, lock and flat washers. Torque to 20 lb.-ft. (27Nm).



fig. 2

4. The lower bracket has holes in it for a left and right hand installation (Fig. 3).
5. Attach the lower bracket to the air springs assembly with two 3/8" flat head screws (E) and torque to 20 lb.-ft. (27Nm) (Fig. 4).

Driver's (left) side mounting holes for air spring

Passenger's (right) side mounting holes for air spring

FRONT



fig. 3

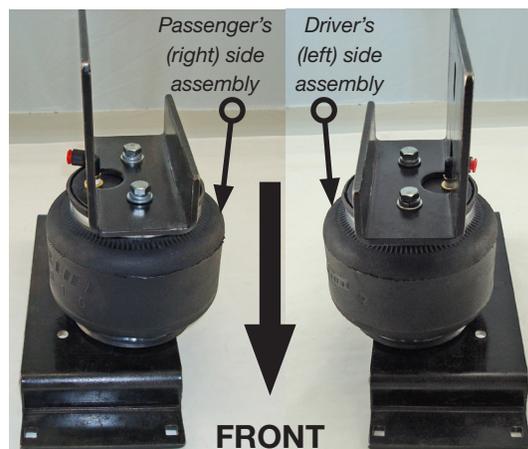


fig. 4

PREPARING THE VEHICLE

1. Before the assemblies can be installed, it will be necessary to remove the jounce bumpers from under the frame (Fig. 5). Note: do not discard the right OEM bolt; it will be used in the next step on the right side of the vehicle.

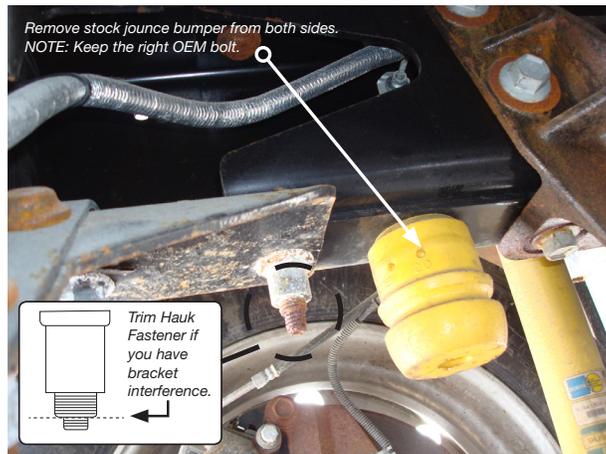


fig. 5

2. Install the small spacer (C) onto the bottom of the frame (where the jounce bumper mounted) on the right side of the vehicle with the existing jounce bumper bolt previously removed (Fig. 6). Tighten securely.



fig. 6

INSTALLING THE ASSEMBLIES

1. Set the right and left hand unit in place under the frame, over the axle retainer. Note: the flange for the mounting bolts goes forward on the spring. (Figs. 7 & 8).

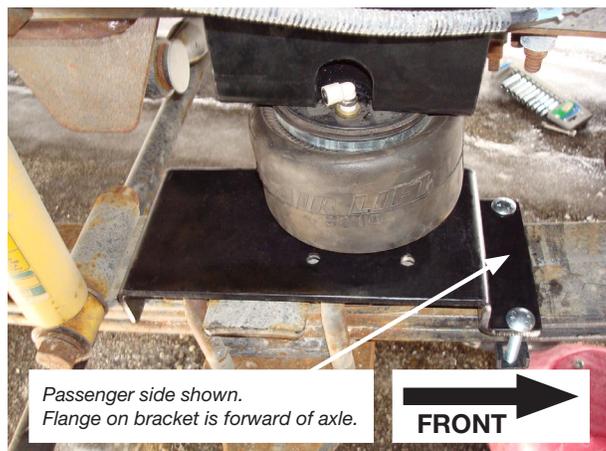


fig. 7

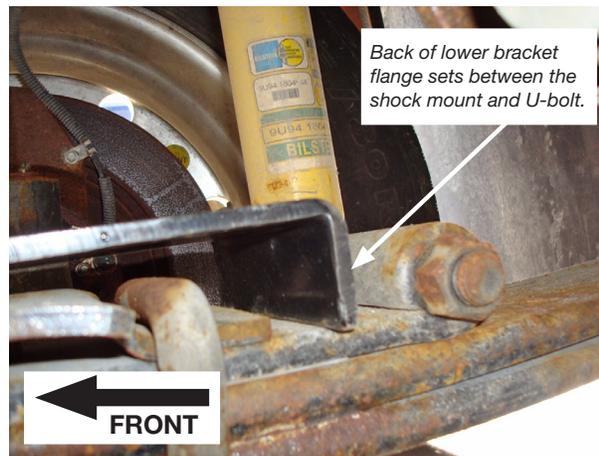


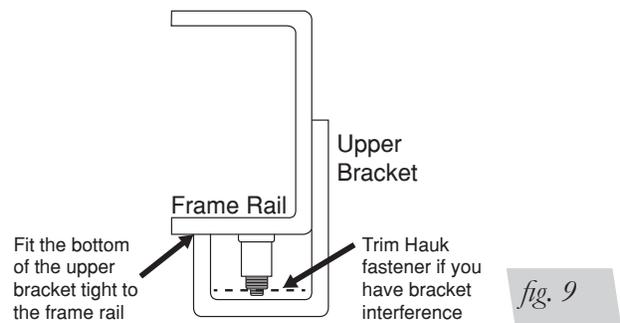
fig. 8

2. Insert the two carriage bolts (K) through the square holes in the lower bracket. Set the clamp bar (J) over the carriage bolts (under the leaf spring) and cap with two 3/8" flat washers (H) and two 3/8" nylon lock nuts (M) (Fig. 1). Leave loose at this time.
3. Some models have existing holes in the frame that the upper bracket lines up to for mounting. If you have existing holes in the frame, align the slot in the upper bracket with the hole in the frame and attach the upper bracket with one 1/2" hex cap screw (L), one 1/2" flat washer (O) through the upper bracket and frame, cap with a 1/2" flat washer (O) and 1/2" nylon lock nut (N) (Fig. 1). Note: make sure that the flange on the upper bracket is setting against the frame (Fig. 9). Torque 1/2" hardware to 90 lb.-ft. (122Nm).

CAUTION

BEFORE DRILLING, CHECK THE BACK-SIDE OF THE FRAME FOR CLEARANCE ISSUES WITH THE BRAKE LINES, GAS LINES, AND ELECTRICAL LINES. ANY OBSTACLES WILL NEED TO BE TEMPORARILY RELOCATED TO CLEAR THE AREA.

4. If there is no hole in the frame for the upper bracket, position the lower bracket so that the back leg on the bracket is in between the shock mount and U-bolt (Fig. 8). Align the upper bracket so the air spring is perpendicular between the upper and lower bracket. Note: make sure that the flange on the upper bracket is setting against the frame. Some late models may have longer Hawk fasteners. If the fastener hits on the upper bracket and keeps it from contacting the frame (Figs. 5 & 9) hack saw or grind the end of the fastener just enough so that the upper bracket contacts the frame. Using the center of the slot in the upper bracket as a guide, center punch and drill a 1/2" hole through the frame. Repeat for the other side.
5. Attach the upper brackets per instructions in Step 3.



6. Once the upper bracket hardware is tight, adjust the lower bracket forward or back so that the air spring is parallel between them and torque the carriage bolt mounting hardware to 16 lb.-ft. (22Nm) (Fig. 1).

INSTALLING THE AIR LINES

Air lines are routed from the air springs to Schrader valves. Begin by choosing locations for the Schrader valves and drill a 5/16" (8mm) hole, if necessary (Fig. 10).

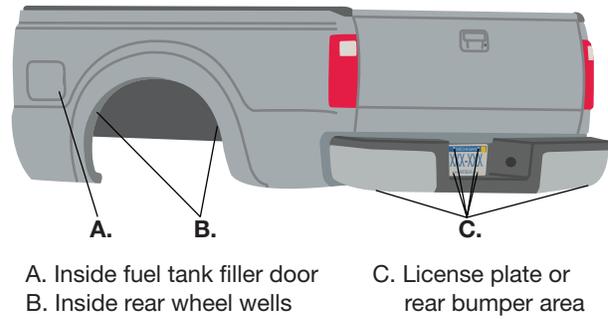


fig. 10

CAUTION

KEEP AT LEAST 6" (150MM) 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. 11). Do not use scissors or wire cutters.



fig. 11

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" (25mm). Leave at least 2" (50mm) 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. 12).

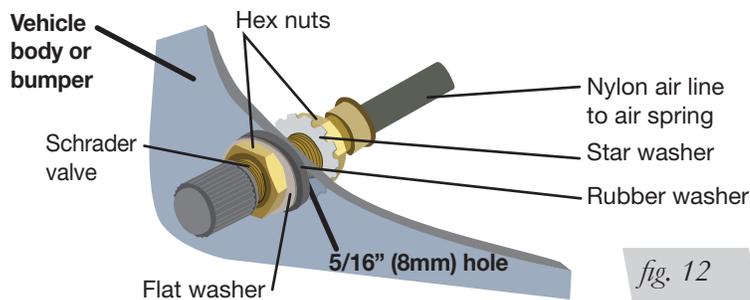


fig. 12

Before Operating

INSTALLATION CHECKLIST

- Clearance test** — Inflate the air springs to 40-60 PSI (2.8-4.1BAR) and make sure there is at least 1/2" (13mm) 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 40-60 PSI (2.8-4.1BAR) 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" (152mm) 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 Air Lift customer service at **(800) 248-0892**.
- 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 (16km) 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.

Maintenance and Use Guidelines

1. Check air pressure weekly.
2. Always maintain normal ride height. Never inflate beyond 100 PSI (7BAR).
3. If the system develops an air leak, use a soapy water solution to check all air line connections and the inflation valve core before deflating and removing the air spring.

Minimum Recommended Pressure	Maximum Air Pressure
5 PSI (.34BAR)	100 PSI (7BAR)



FOR SAFETY AND TO PREVENT POSSIBLE DAMAGE TO THE VEHICLE, DO NOT EXCEED MAXIMUM GROSS VEHICLE WEIGHT RATING (GVWR) OR PAYLOAD RATING, AS INDICATED BY THE VEHICLE MANUFACTURER.



ALTHOUGH THE AIR SPRINGS ARE RATED AT A MAXIMUM INFLATION PRESSURE OF 100 PSI (7BAR), THE AIR PRESSURE ACTUALLY NEEDED IS DEPENDENT ON LOAD AND GROSS VEHICLE WEIGHT RATING.

Limited Warranty and Return Policy

Air Lift Company provides a limited lifetime warranty to the original purchaser of its load support products, 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 in the full Limited Warranty and Return Policy that is available at www.airliftcompany.com/warranty.

For additional warranty information contact Air Lift Company customer service.

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 Performance • 2727 Snow Road • Lansing, MI 48917 or P.O. Box 80167 • Lansing, MI 48908-0167
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