

LoadLifter 5000™ SERIES + Air Lift® ProSeries



Installation Guide



Ford Ranger



Watch the video
Info on Table of Contents page

Kits 57356 | 77356

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.

Protect your Air Lift Purchase by Completing your Warranty Registration



Thank you for purchasing an Air Lift load support product!

Take a photo of your sales receipt and then scan the QR code to complete your online warranty registration.

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Video-enhanced installation guides

Visit airliftcompany.com/workshop/category/install-videos to access our installation video archive*.

System Overview

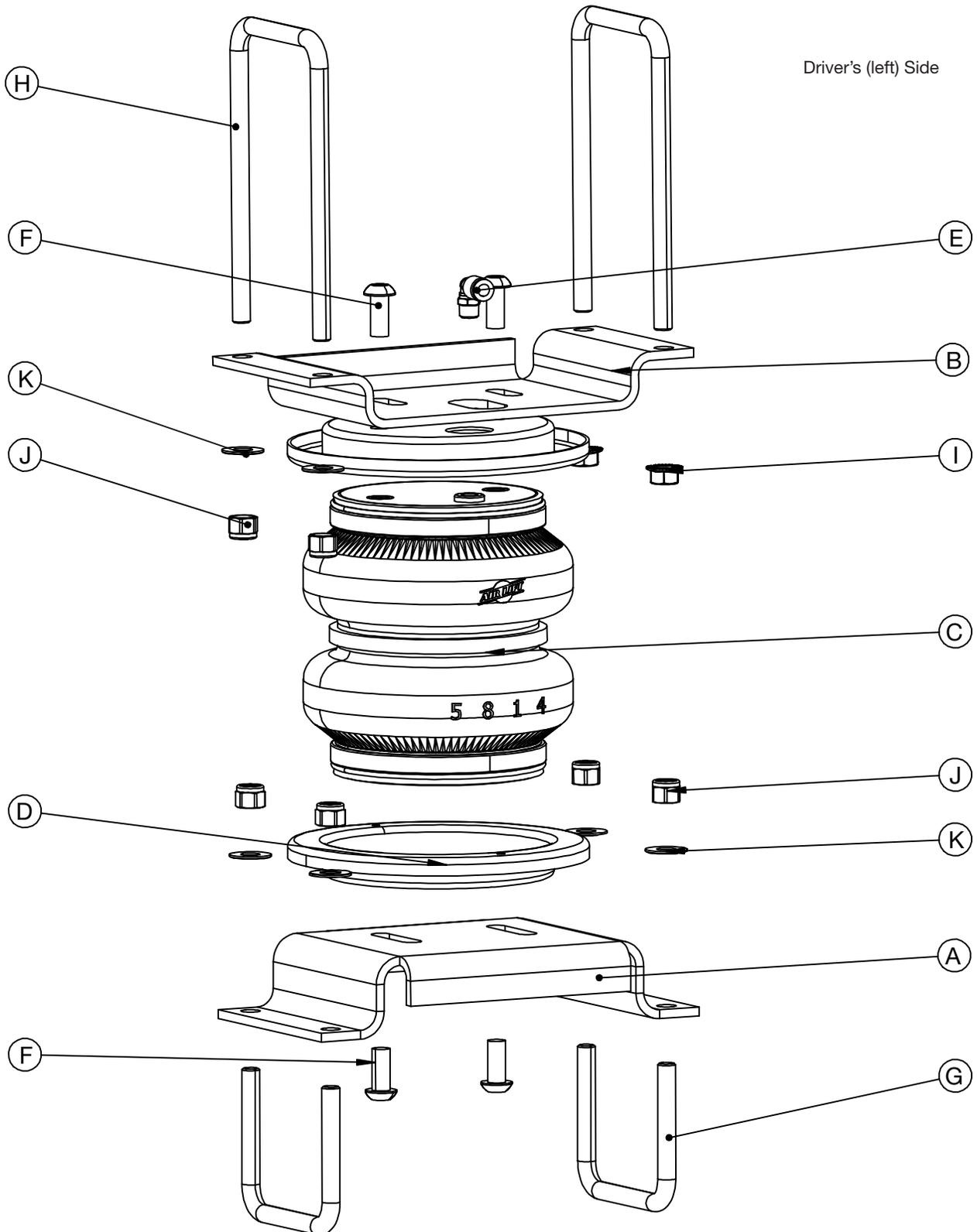


Fig. 1

Hardware and Tools

COMMON PARTS INCLUDED IN BOTH KITS

Item	Part#	Description.....	Qty
A	03047	Lower bracket	2
B	07069	Upper bracket	2
E	21848	Air Fitting.....	2
F	17527	3/8"-24 X 3/4" Button-head cap screw	8
G	10975	U-Bolt, 3/8"-16 x 3"	4
H	11456	U-Bolt, 3/8"-16 X 6"	4
I	18422	3/8"-16 Serrated flange lock nut.....	4
J	18435	3/8"-16 Nylon lock nut.....	12
K	18444	3/8" Flat washer.....	12
L*	33107	Heat shield	1
AA*	20086	Air line assembly	1
BB*	10466	Zip ties	6
CC*	21230	Valve cap.....	2
DD*	18411	Star washer.....	2
EE*	21234	Rubber washer.....	2
FF*	18501	M8 Flat washer.....	2
GG*	21233	5/16" Hex nut.....	4

* These parts are not shown in the System Overview (Fig.1)

UNIQUE PARTS IN EACH KIT

LoadLifter 5000™ KIT 57356

Item	Part#	Description.....	Qty
C	58439	Air spring.....	2
D	11951	Roll plate.....	4

Air Lift® ProSeries KIT 77356

Item	Part#	Description.....	Qty
C	58439	Air spring.....	2
D	11951	Roll plate.....	4

TOOLS NEEDED

Description.....	Qty
Standard and metric open-end or box wrenches	SET
Ratchet	1
Standard and metric, regular and deep-well sockets	SET
5/16" drill bit (very sharp)	1
9/16" Crows foot adapter.....	1
7/32 Hex key	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 kit



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

Introduction

The purpose of this publication is to assist with the installation and maintenance of the LoadLifter 5000 series and Air Lift ProSeries air spring kits. All LoadLifter 5000 series and Air Lift ProSeries kits utilize sturdy, reinforced, commercial-grade single or double, depending on the kit, convolute bellows.

The air springs are manufactured like a tire with layers of rubber and cords that control growth. LoadLifter 5000 series and Air Lift ProSeries kits provide up to 5,000 pounds (2,268kg) of load-leveling support with air adjustability from 5-100 PSI (.34-7BAR).

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

NOTATION EXPLANATION

Hazard notations appear in various locations in this publication. Information 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 and Tech Tips 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 VEHICLE OR MINOR PERSONAL INJURY.



NOTE

Used to help emphasize areas of procedural importance and provide helpful suggestions.



TECH TIP

Used to provide helpful tips to ease the installation process.

Install the System

PREPARE THE VEHICLE

1. Lift the vehicle and support the axle with safety stands (Fig. 2).

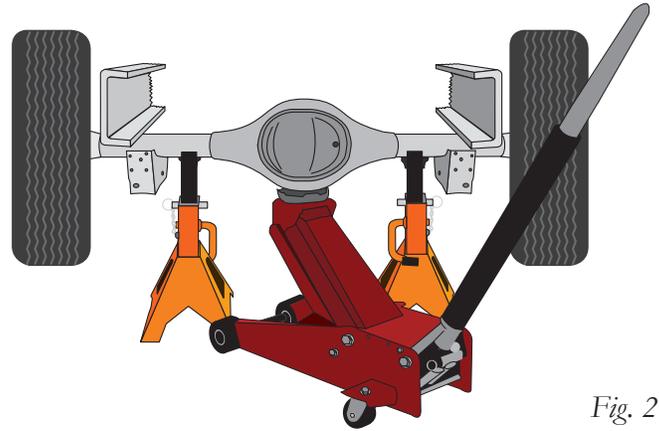


Fig. 2

2. Remove the bolt and jounce bumper from the frame (Fig. 3).



Fig. 3

ASSEMBLE THE AIR SPRING ASSEMBLIES

1. Set a roll plate (D) on top of the air spring (C) and install the air fitting (E) finger-tight (Fig. 4). Torque the fitting one and a half turns.

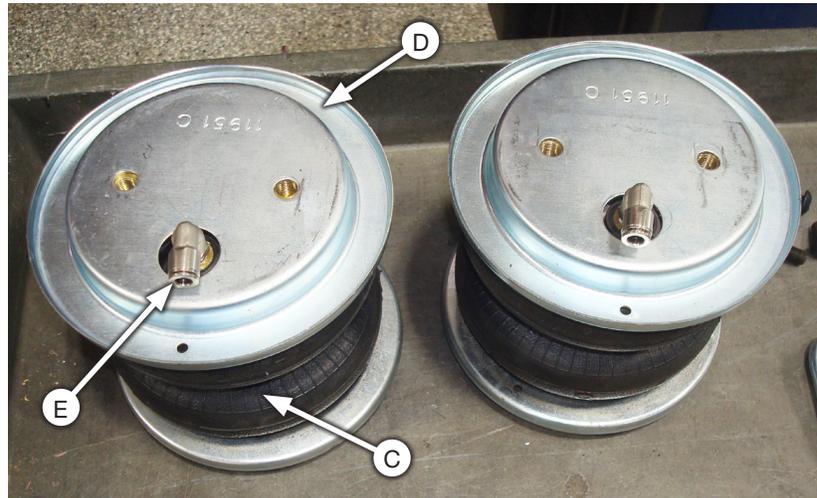


Fig. 4

2. Set the upper brackets (B) onto the air spring assemblies making sure the large hole is aligned with the fitting. Note that the bolts (circled in Fig. 5) are in opposite ends of the slots, this is critical. The driver side upper bracket must be pushed as far towards the air fitting as possible while the passenger side must be pushed back as far away from the air fitting as possible. Install the bracket using the 3/8" button-head cap screws (F) and torque to no more than 20 lb.-ft. (27Nm).

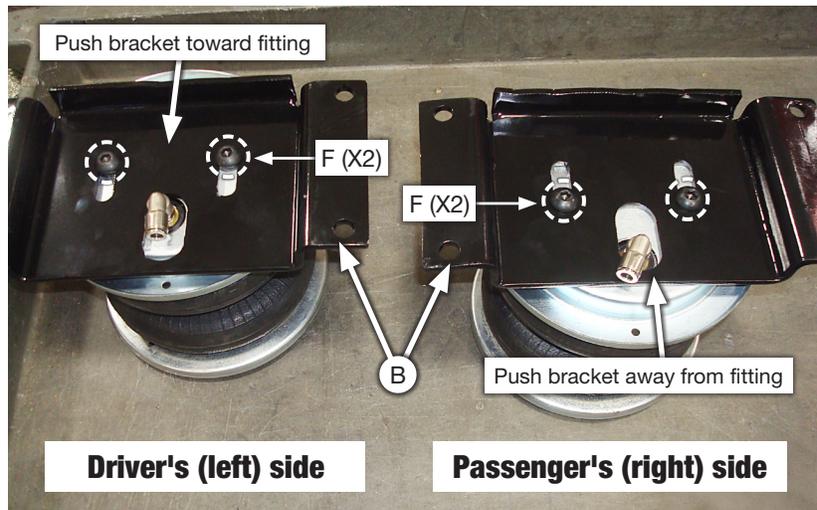


Fig. 5

3. Flip both assemblies' upside down and insert the 3/8" button-head cap screws (F) into the lower brackets (A). Make sure that the brackets are pushed in the correct direction so the button-head cap screws are in the right location in the slots (Fig. 6). The flange on the upper bracket is facing towards you in Figure 6 for reference in which direction to align the lower brackets.

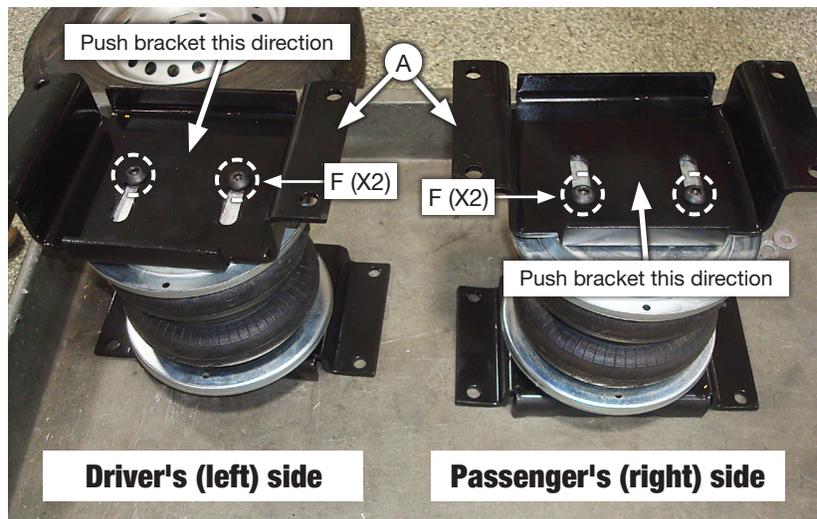


Fig. 6

INSTALL THE AIR SPRING ASSEMBLIES

1. Raise the frame or lower the axle to make room to put the assemblies into position between the frame and leaf springs.
2. Place a U-bolt (H) in front of and behind the jounce bumper mounting plate. Repeat this on the drivers side of the frame as well (Figs. 7, 8, 9 & 10). Make sure U-bolts are between any brake or electrical lines and the frame so as not to pinch them when torquing.

Passenger's (Right) Side



Front side of jounce bumper mount

Fig. 7



Rear side of jounce bumper mount

Fig. 8

Driver's (Left) Side



Front side of jounce bumper mount

Fig. 9



Rear side of jounce bumper mount

Fig. 10

3. Take the respective assemblies and place them over the jounce bumper strike plate (Fig. 11). Then lower the vehicle and guide the upper U-bolts through the holes in the upper bracket as seen in Figure 12. Make sure that the upper bracket is centered front to rear over the jounce bumper mounting plate.

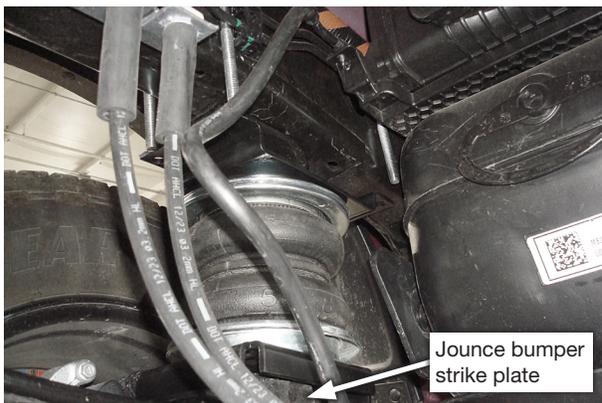


Fig. 11



Fig. 12

4. On both sides of the vehicle place serrated flange lock nuts (I) over the front U-bolt (Fig. 13) and place a 3/8" flat washer (K) and 3/8" nylon lock nut (J) over the rear U-bolt (Fig. 14). Leave hand-tight currently.



Fig. 13

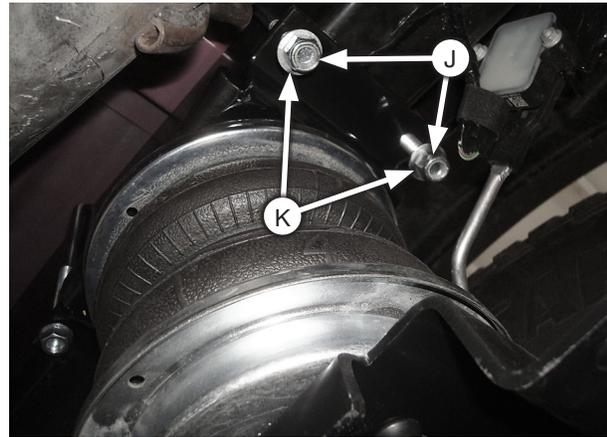


Fig. 14

5. Install U-bolt (G) under the leaf spring pack and up through the lower bracket bolts on both sides of the vehicle. Place flat washer (K) and nylon lock nut (J) on each of the U-bolts (Fig. 15). At this time the drivers side assembly needs to be pushed towards the outside of the vehicle as far as it will go (Fig. 17), this allows it more clearance between the lower bracket and the fuel tank protection plate. The passenger side needs to be pushed towards the inside as far as it will go, this will provide the necessary clearance between the upper bracket and the rear height sensor (Fig. 18). Torque the lower and upper U-bolt mounting hardware to 10 lb.-ft. (13Nm).

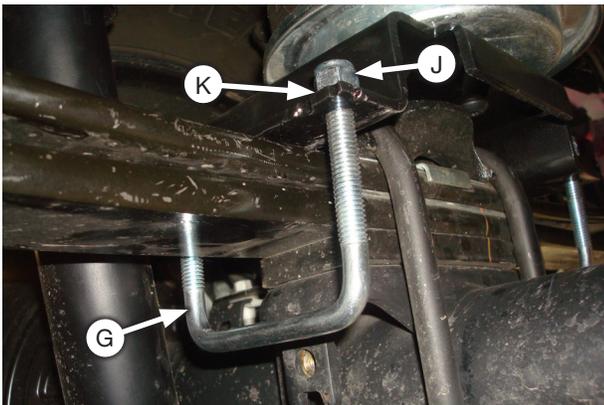


Fig. 15



Fig. 16



Fig. 17

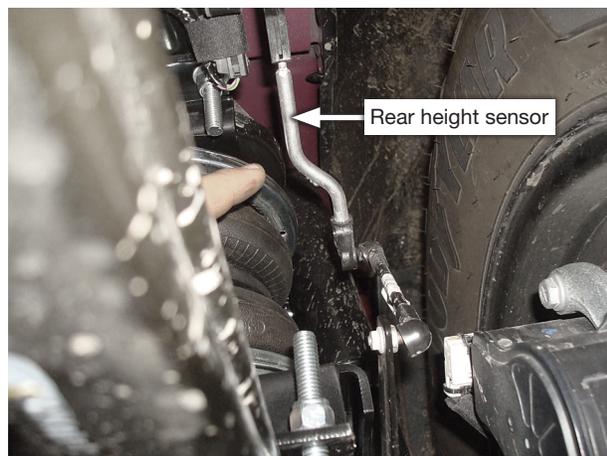
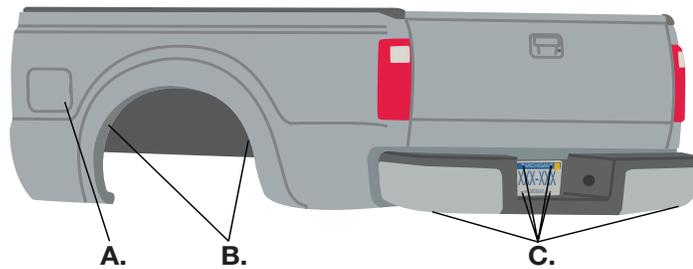


Fig. 18

Install the Air Lines

1. Choose the locations for the Schrader valves and drill a 5/16" (8mm) hole, if necessary.



A. Inside fuel tank filler door C. License plate or rear bumper area
 B. Inside rear wheel wells



CAUTION

KEEP AT LEAST 6" (152MM) OF CLEARANCE BETWEEN ALL AIR LINES AND THE EXHAUST SYSTEM. AVOID SHARP BENDS AND EDGES.

2. Make clean, square cuts with a hose cutter when cutting the air line (AA). Do not use scissors or wire cutters.

Good cut



Bad cut



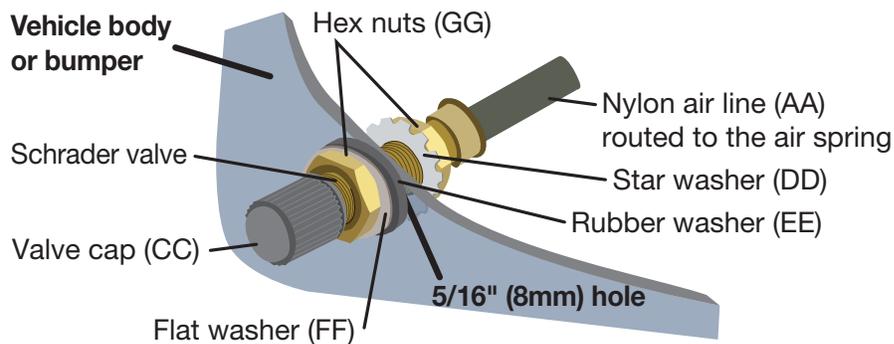
3. Use zip ties (BB) to secure the air line to fixed points along the chassis. Do not pinch or kink the air line. Leave at least 2" (51mm) of slack in the air line to allow for any movement that might pull on the air line. The minimum bend radius for the air line is 1" (25mm).



NOTE

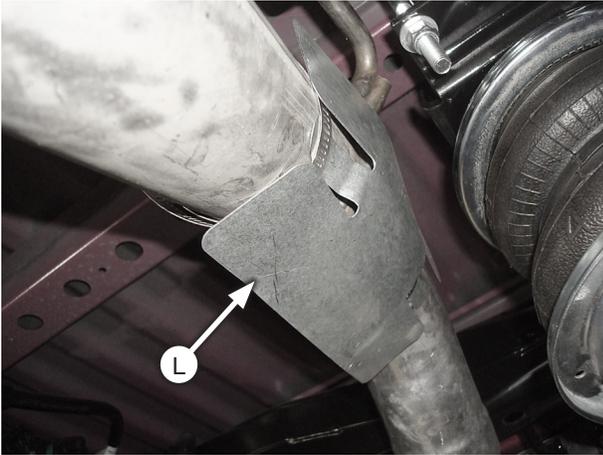
The driver's (left) side air line comes in from inside of the frame and the passenger's (right) side air line runs on the outside of the frame.

4. Install the Schrader valve in the chosen location.

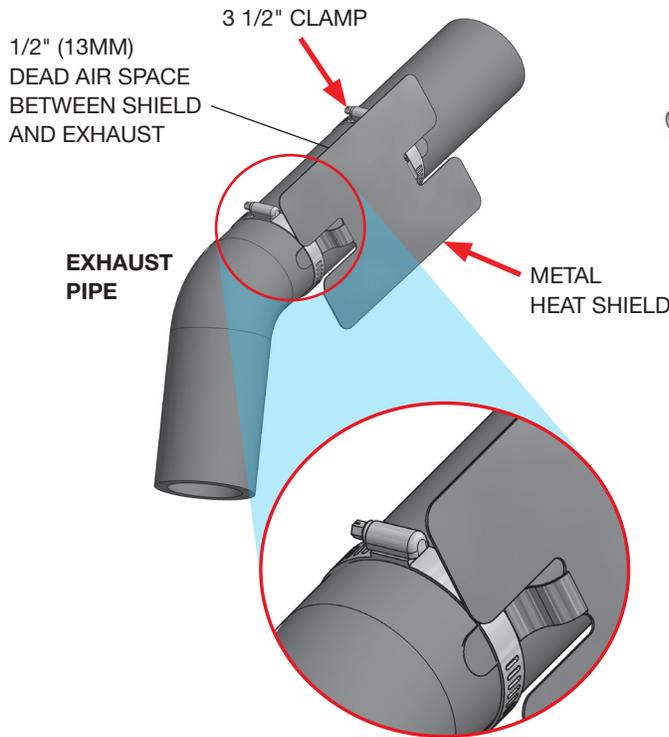


INSTALL THE HEAT SHIELD

1. Install the heatshield (L) on the passenger side exhaust over the center hanger as shown.

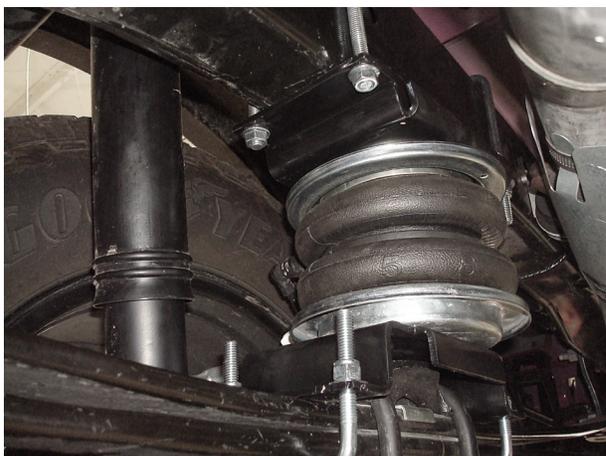


2. Attach the metal heat shield to the exhaust pipe using the hose clamps. Slide the air line thermal sleeve over the air line and place it where the air line is closest to the exhaust.



Finished Installation

The images show the finished installation of both sides.



Driver's (Left) side front view



Driver's (Left) side top view



Passenger's (Right) side forward view



Passenger's (Right) side top view

Congratulations!

You are now the proud owner of an Air Lift air suspension system. Enjoy!

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 air spring. 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** — After 500 miles (800km), recheck all bolts for proper torque.
- Road test** — The vehicle should be road-tested after the initial tests. Inflate the air 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.
4. Upon successful completion of the installation, follow these pressure requirements for the air springs.



Minimum Recommended Air Pressure



Maximum Air Pressure



CAUTION

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, 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 in the full Limited Warranty and Return Policy.

*Full Limited Warranty and Return Policy are available at www.airliftcompany.com/warranty and are subject to change.

WARRANTY REGISTRATION & CLAIMS

- To register your warranty, please visit <https://www.airliftcompany.com/support/warranty/register/>
- To submit a warranty claim, please visit <https://www.airliftcompany.com/support/warranty/submit-claim/>



Thank you for purchasing Air Lift Products!

NEED HELP?

Contact Air Lift Company Customer Service at
(800) 248-0892 or email service@airliftcompany.com.
For calls outside the U.S. or Canada, dial +1 (517) 322-2144.



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

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