

LoadLifter 5000™ SERIES + Air Lift® ProSeries



Installation Guide



* LoadLifter 5000 kit shown here

Ford F150 4-Wheel Drive



Watch the video
Info on Table of Contents page

Kits 57385 | 88385 | 93385

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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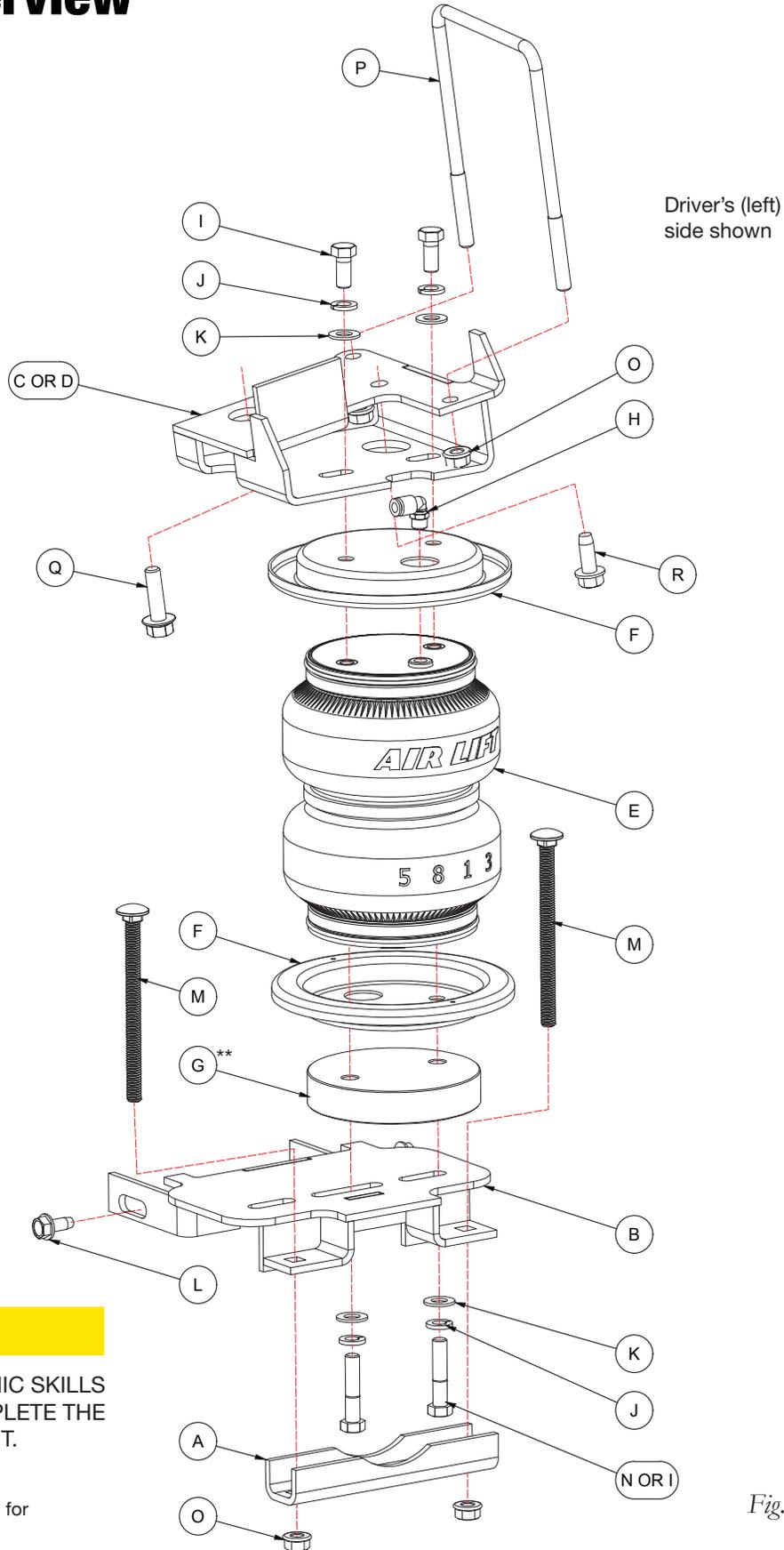
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Video-enhanced installation guides

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

System Overview



⚠ CAUTION

PROFESSIONAL MECHANIC SKILLS ARE REQUIRED TO COMPLETE THE INSTALLATION OF THIS KIT.

** Optional: May not be required for your installation. See page 8.

Fig. 1

Hardware and Tools

Common Parts Included in All 3 Kits

Item	Part#	Description	Qty
A	01531	Clamp bar	2
B	03977	Lower bracket	2
C	07555	Upper left bracket	1
D	07999	Upper right bracket	1
G**	11387	Lower spacer	2
H	21848	1/4" Air fitting	2
L	17102	5/16"-18 x 3/4" Self-threading screw	4
M	17168	3/8"-16 x 5" Carriage bolt	4
O	18422	3/8"-16 Serrated flange nut	8
P	11325	3/8"-16 U-bolt	2
Q	17268	M10 x 1.5 x 35mm Flange bolt	2
R	17129	3/8" x 1" Self-tapping bolts	2
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).

** Optional: May not be required for your installation. See page 8.

TOOLS LIST

Description	Qty
Standard and metric open-end or boxed wrenches	Set
Standard and metric regular and deep-well sockets	Set
Ratchet	1
Torque wrench	1
7/32" hex-key wrench (socket preferable)	1
Hose cutter, razor blade, or sharp knife	1
Cutoff wheel, air reciprocating saw or a hacksaw	1
Christmas tree puller	1
Hoist or floor jack	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 57385

Item	Part#	Description	Qty
E	58437	Air spring	2
F	11951	Roll plate (silver zinc-plated)	4
I	17203	3/8"-24 x 7/8" Hex-head screw	8
J	18427	3/8" Lock washer	8
K	18444	3/8" Flat washer	8
N	17484	3/8"-24 x 1 3/4" Hex-head screw	4

LoadLifter 5000™ ULTIMATE KIT 88385

Item	Part#	Description	Qty
E	58496	Air spring	2
F	11967	Roll plate (black powder-coated)	4
I	17203	3/8"-24 x 7/8" Hex-head screw	8
J	18427	3/8" Lock washer	8
K	18444	3/8" Flat washer	8
N	17484	3/8"-24 x 1 3/4" Hex-head screw	4

Air Lift® ProSeries KIT 93385

Item	Part#	Description	Qty
E	58937	Air spring	2
F	11951	Roll plate (silver zinc-plated)	4
I	17284	3/8"-24 x 7/8" Stainless steel hex-cap screw	8
J	18504	3/8" Stainless steel lock washer	8
K	18507	3/8" Stainless steel flat washer	8
N	17585	3/8"-24 x 1 3/4" Stainless hex-head screw	4
HH*	21838	Tee fitting	1



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 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 installation 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.



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

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 standard Air Lift ProSeries. The kits are easily identifiable by looking at the end caps on the air spring and the roll plates.

- Standard **LoadLifter 5000™** — Plastic end cap and Zinc-plated steel roll plates.
- LoadLifter 5000™ Ultimate** — Plastic end cap and Black powder-coated roll plates.
- Standard **Air Lift® ProSeries** — Aluminum end cap and Zinc-plated steel roll plates.



LoadLifter 5000
Plastic end cap



LoadLifter 5000
silver zinc-plated steel roll plate



LoadLifter 5000 Ultimate
Plastic end cap



LoadLifter 5000 Ultimate
black powder-coated roll plate



Air Lift ProSeries
Aluminum end cap



Air Lift ProSeries
silver zinc-plated steel roll plate

Install the System

PREPARE THE VEHICLE

1. Lift the vehicle and support the frame with safety stands. Drop the axle down low enough to later set the air spring assemblies into position between frame and leaf spring (Fig. 2).

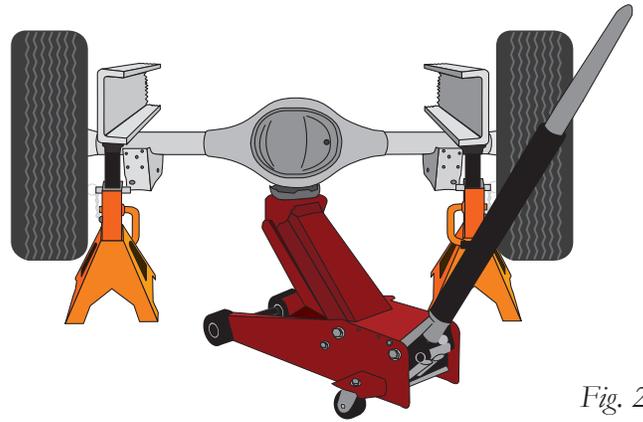


Fig. 2

2. Remove the factory jounce bumpers using a 13mm socket and an extension. The bolts have blue sealant on them and may require a small impact (Fig. 3).



Fig. 3

3. Thread the included M10 flange head bolt (Q) into the locations created by the jounce bumpers. Leave approximately a 1/2" (13mm) gap between the bolt flange and the chassis (Fig. 4).

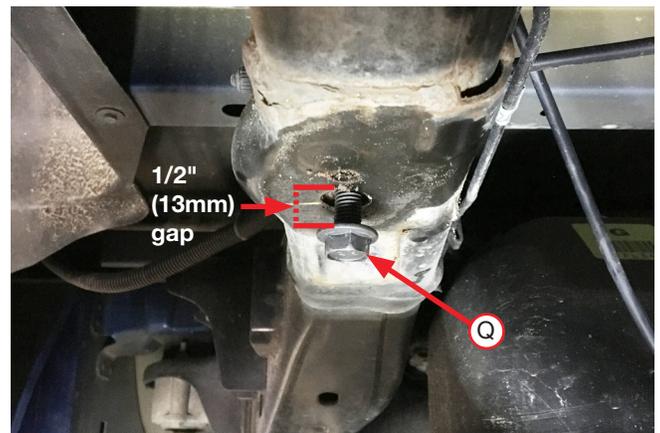
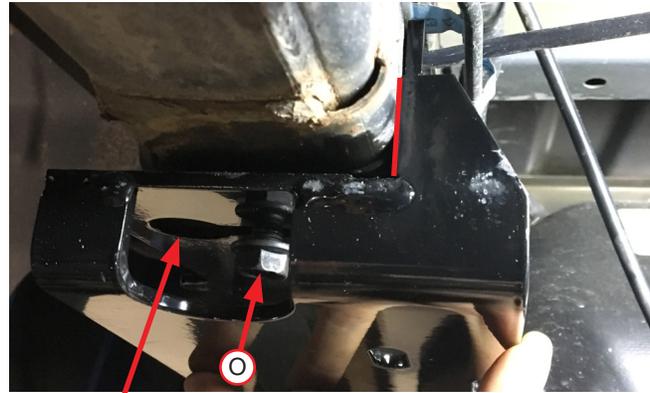


Fig. 4

4. Install the upper brackets (C-left or D-right) by pushing the bracket up against the frame so the flanged bolt passes through the keyway in the bracket. When the bracket is against the frame, push the bracket outward to lock into the keyway. Tighten the flanged nut (O), making sure the vertical portion of the bracket is touching the side of the frame (Fig. 5). Torque bolt to 20 lb.-ft. (27Nm).

For installations not equipped with a 5th wheel side mount bracket, proceed with the following. For all 5th wheel hitch side mount installations, skip this section and move to step 6 to complete the upper bracket installation.



Keyway Driver's (left) side

Fig. 5

⚠ CAUTION

ON DRIVER'S SIDE (LEFT) ENSURE THERE IS PROPER CLEARANCE BETWEEN THE U-BOLT AND THE BRAKE LINES TO PREVENT DAMAGE TO THE BRAKE LINES.

5. Place the U-bolt (P) over the top of the frame and through the holes in the forward side of the upper bracket. Thread the serrated flange lock nuts (O) onto the U-bolt and evenly torque to 10 lb.-ft. (14Nm) (Fig. 6). Repeat for passenger's (right) side. When complete skip to step 8.

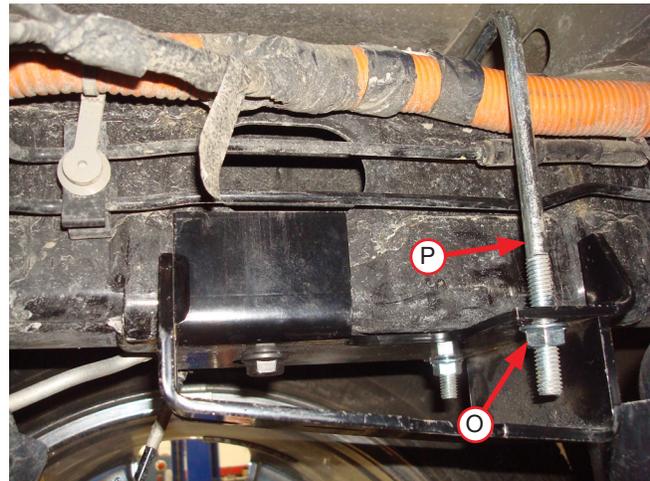


Fig. 6

Upper bracket installation for most all 5th wheel hitch side mount equipped vehicles:

6. Center punch the frame using the forward hole in the upper bracket as a template. Drill a 5/16" hole through the bottom of the frame (Fig. 7).
7. Install the self-tapping screw (R) into the hole previously drilled and torque to 30 lb.-ft (41Nm) (Fig. 8).



Fig. 7

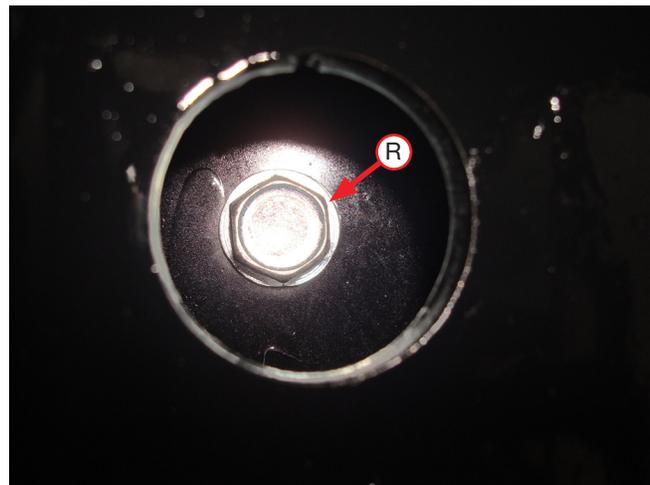


Fig. 8

- Remove the brake line tabs attached to both sides of the leaf spring perches with a 10mm socket (Fig. 9). Remove the plastic clip from the ABS line on the right side of the axle (Fig. 10).



Fig. 9



Fig. 10

NOTE

2019 vehicles will have a wiring harness but other model years may not.

On all trucks, a small portion of the brake line bracket needs to be cut for proper clearance to fit the lower bracket.

- Remove the wiring harness and ABS line from the brake line bracket on the axle. Move them out of the way to give room to cut (Fig. 11).

CAUTION

USE CAUTION WHILE CUTTING THE BRAKE LINE BRACKET. ENSURE THE BRAKE LINE AND WIRE HARNESS HAVE PROPER CLEARANCE TO AVOID DAMAGE FROM THE SAW.



Fig. 11

- Measure approximately 1.375" (35mm) from the edge of the bracket, this may vary depending on the truck. Use the dashed line on Fig. 12 as a reference. Make the cut to the bracket using a cutoff wheel, air reciprocating saw or a hacksaw.

- Determine spacing between the upper and lower brackets by temporarily setting the lower bracket (B) into position and lower the body/frame of the truck so that it is sitting at ride height. Once the truck is at its natural ride height, measure the distance from the lower bracket to the upper bracket. Measure from the bottom mounting surface to the top mounting surface. If the measurement is 6.75" - 7.50" (171-191mm) the included spacer (G) will be required (Fig. 13).



Fig. 12



Fig. 13

NOTE

The following photos show installation with the spacer. If your truck does not require the spacer, use the included shorter hardware (N).

12. Place a carriage bolt (M) through the front hole on the lower brackets (Fig. 14). Flip the air spring (E) upside down (air fitting port down). Place the roll plate (F) (Fig. 15), spacer (if required) (Fig. 16), and lower bracket (Fig. 17) on the air spring, making sure all the holes are lined up. Thread the hex-head screw (N or I) with flat washer (K) and lock washer (J) finger-tight. Keep everything loose enough so that the air spring can slide front to back. Ensure the air fitting port on the air spring is facing inboard of the vehicle and that the air spring is mounted forward on the bracket. See diagrams below for clarity (Fig. 18). Flip the assemblies upright and install the air fittings (H) finger tight plus 1 1/2 turns.



Fig. 14



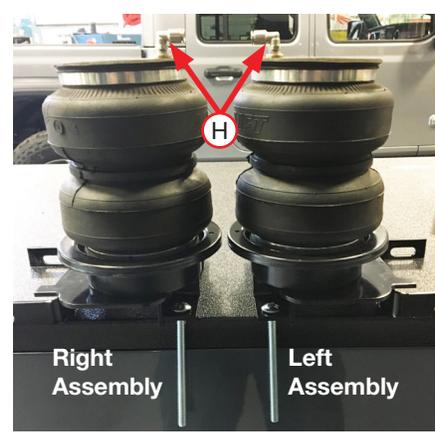
If no spacer needed (roll plate only) use the included shorter hardware



Spacer placement (if required) Fig. 16



Lower bracket mounting hardware Fig. 17



Note: Air springs are mounted forward on the bracket Fig. 18

13. Lift the truck and let the axle hang. Place the assemblies on the axle (Fig. 19) with the tabs wrapping around the leaf spring perch (Fig. 20). Install the included self-threading screw (L) and brake line tab on the spring perch (Fig. 20). On the front side, use the self-threading bolt to secure the front tab to the spring perch (Fig. 21).



Fig. 19



Fig. 20



Fig. 21

14. Install the remaining two carriage bolts onto the lower brackets (Fig. 22). Next, insert the clamp bars (A) over the carriage bolts with the serrated flange nuts (O) to attach the lower bracket assembly to the axle (Fig. 23). Torque to 16 lb.-ft. (22Nm).



Fig. 22

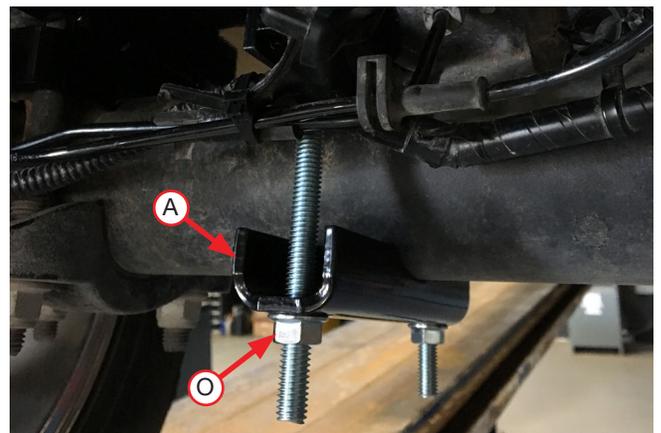


Fig. 23

15. Place the last two roll plates on top of the air springs, making sure the mounting holes are lined up with the threaded holes on the air spring (Fig. 24). Raise the axle enough to allow the top of the air spring to move around a little. There should only be about a 1/8" (3mm) gap between the top of the air spring assembly and the upper bracket (Fig. 25).



Fig. 24



Fig. 25

16. Install the mounting hardware (I, J, K) to attach the air spring to the upper bracket. Thread the hardware finger-tight (Fig. 26).

17. Align the air spring by sliding the assembly forward or backward. Ensure clearance to objects around the air spring and torque the mounting hardware on the top and bottom to no more than 20 lb.-ft. (27Nm) (Fig. 27).

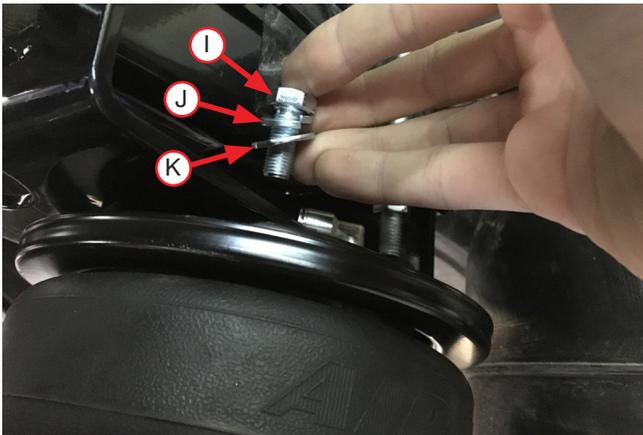


Fig. 26



Fig. 27

⚠ CAUTION

ENSURE PROPER CLEARANCE AWAY FROM SHARP EDGES AND COMPONENTS TO PREVENT DAMAGE TO THE WIRING HARNESS AND ABS LINE.

18. Zip tie (BB) the wiring harnesses and ABS line out of the way so they do not rub against anything (Fig. 28).

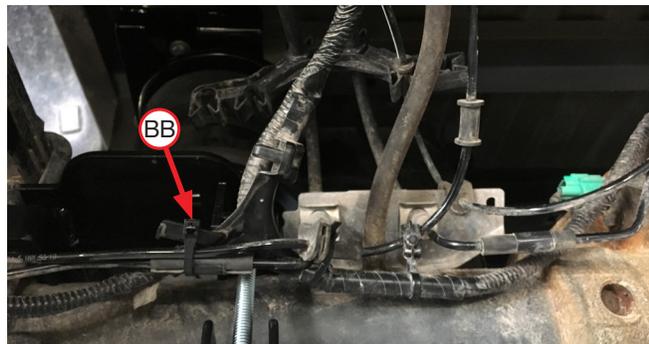
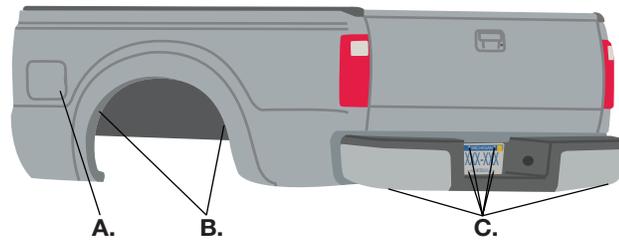


Fig. 28

Install the Air Lines

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

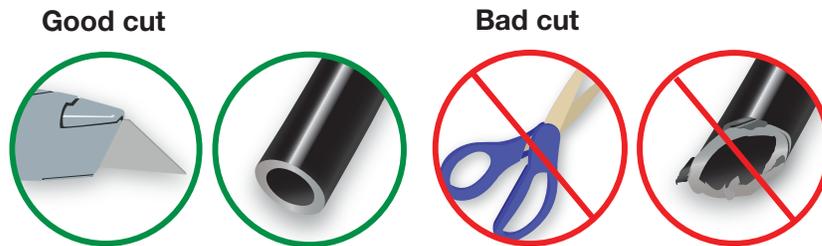


A. Inside fuel tank filler door
 B. Inside rear wheel wells
 C. License plate or rear bumper area



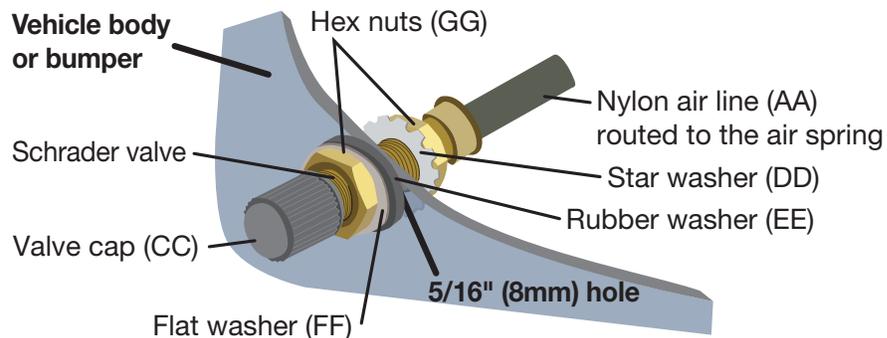
KEEP AT LEAST 6" (152MM) OF CLEARANCE BETWEEN ALL AIR LINES AND THE EXHAUST SYSTEM. AVOID SHARP BENDS AND EDGES.

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



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).

4. Install the Schrader valve in the chosen location.



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** — 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



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/>



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