

LoadLifter 5000™ SERIES + Air Lift® ProSeries



Installation Guide



Toyota 4Runner 4WD



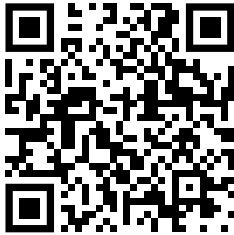
Watch the video
Info on Table of Contents page

Kits 57384 | 77384

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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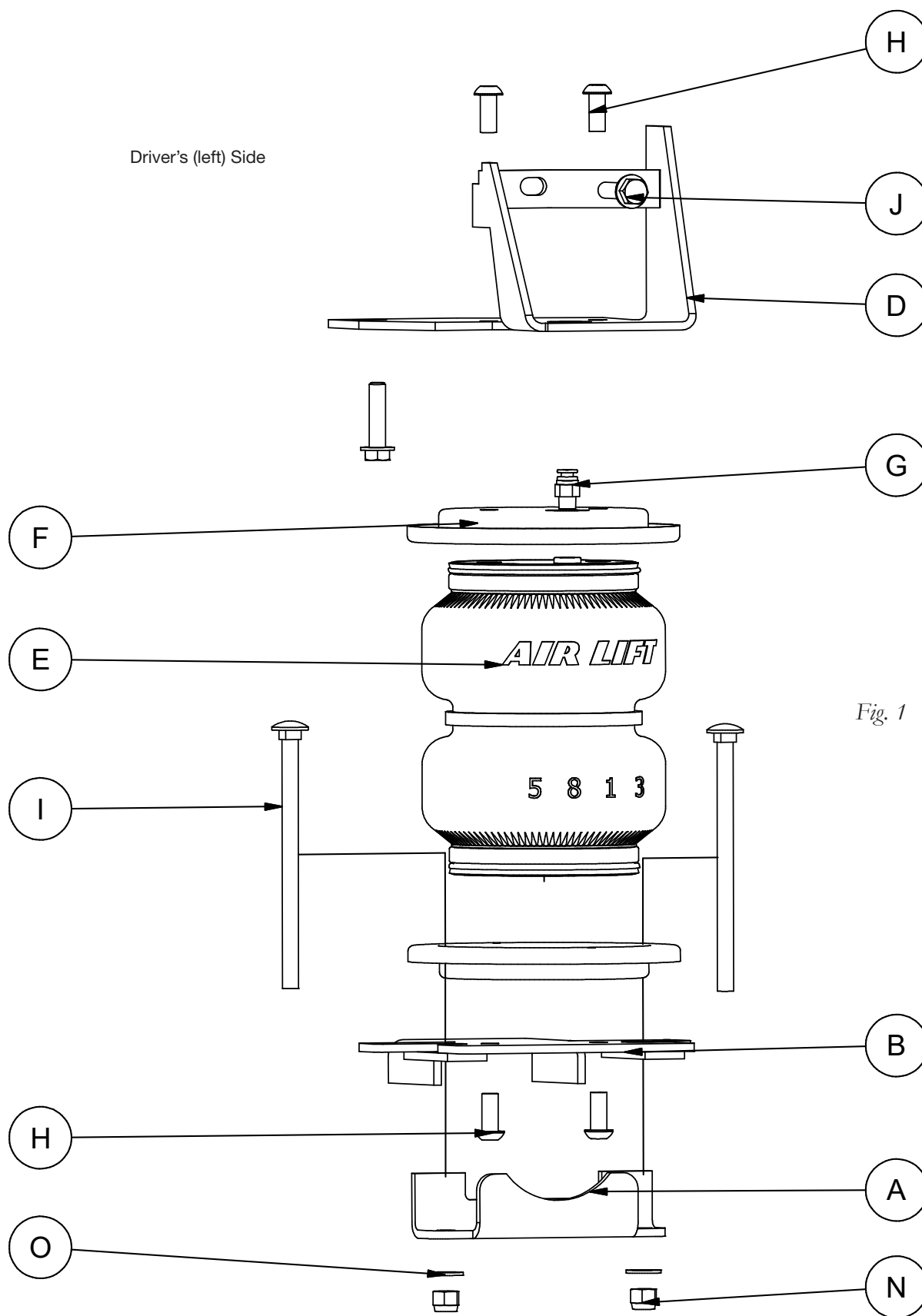
Warranty Registration & Claims

Video-enhanced installation guides

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

* Subject to availability

System Overview



Hardware and Tools

COMMON PARTS INCLUDED IN BOTH KITS

Item	Part#	Description.....	Qty
A	01535	Clamp bar	2
B	03978	Lower bracket.....	2
C	07348	Right hand upper bracket.....	1
D	07343	Left hand upper bracket.....	1
G	21839	Straight fitting	2
H	17527	3/8"-24 X 3/4" Button head cap screw	8
I	17133	3/8"-16 X 6" Carriage bolt	4
J	17469	M8-1.25 X 25 Hex flange bolt.....	4
K*	18501	M8 Flat washer	2
L*	18522	M8 X 1.25 Nylon lock nut	2
M*	18556	3/4" Flat washer	4
N	18435	3/8"-16 Nylon lock nut.....	4
O	18444	3/8" Flat washer	4
P*	11340	Right hand wire harness relocation bracket.....	1
Q*	11341	Left hand wire harness relocation bracket	1
R*	17587	1/4-20 X 1/2" Hex cap screw	2
S*	18662	1/4-20 Serrated flange lock nut.....	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).

UNIQUE PARTS IN EACH KIT

LoadLifter 5000™ KIT 57384

Item	Part#	Description.....	Qty
E	58439	Air spring.....	2
F	11951	Zinc-coated roll plate.....	4

Air Lift® ProSeries KIT 77384

Item	Part#	Description.....	Qty
E	58439	Air spring.....	2
F	11951	Zinc-coated roll plate.....	4

TOOLS NEEDED

Description.....	Qty
Standard and metric open-end or box wrenches	Set
9/16 ratchet wrench	1
7/32 Hex key	1
Ratchet	1
Standard and metric regular and deep-well sockets	Set
Torque wrench.....	1
Hose cutter, razor blade, or sharp knife	1
Hoist or floor jack	1
Safety glasses	1
Safety stands.....	2
Air compressor or compressed air source	1
Spray bottle with dish soap/water solution.....	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 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). Remove the rear wheels.

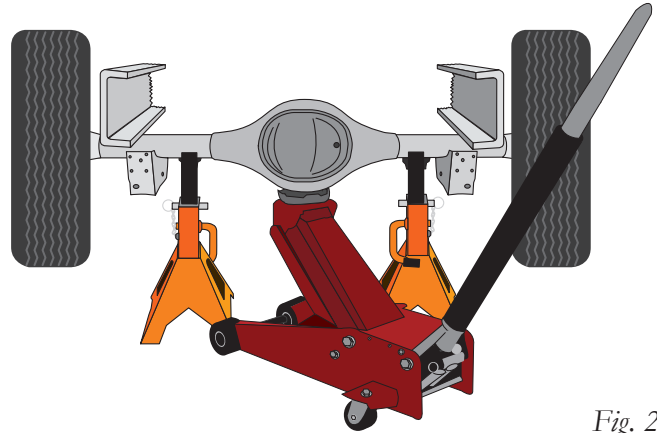


Fig. 2

2. Remove the three bolts and jounce bumper bracket from the frame (Fig. 3). Pry the hole cover off the frame above the axle on the side of the frame just behind the jounce bumper.

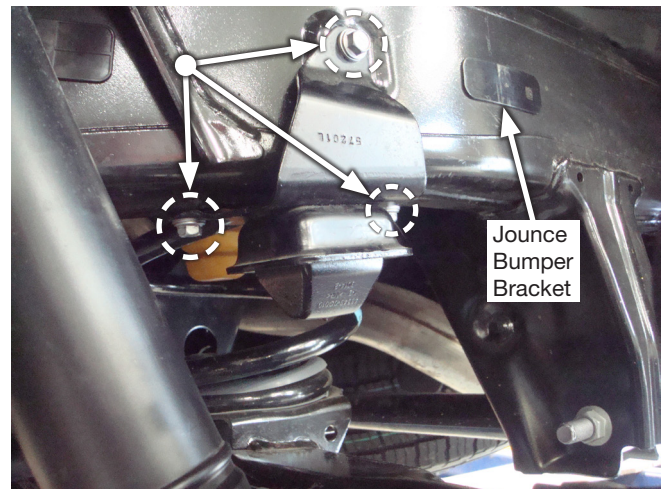


Fig. 3

3. Remove the bolts holding the ABS line bracket forward of the axle and set them aside for later use (Fig. 4).



Fig. 4

4. Remove the lower shock bolts and install two large 3/4" flat washers (M) onto the shock mounts (Fig. 5). Re-install the shock and torque the lower shock mount bolts to 72 lb.-ft. (96Nm).

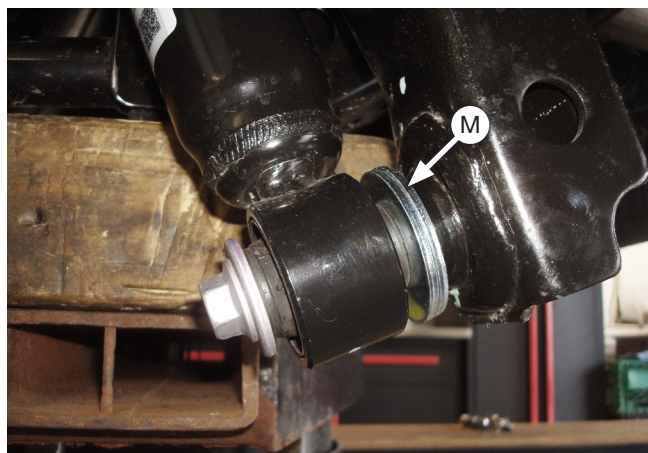


Fig. 5

5. Remove the electric brake wiring harness connector that mounts to the bracket welded forward of the axle on both sides by pushing in on the tabs underneath and pushing it out of the slot (Fig. 6).

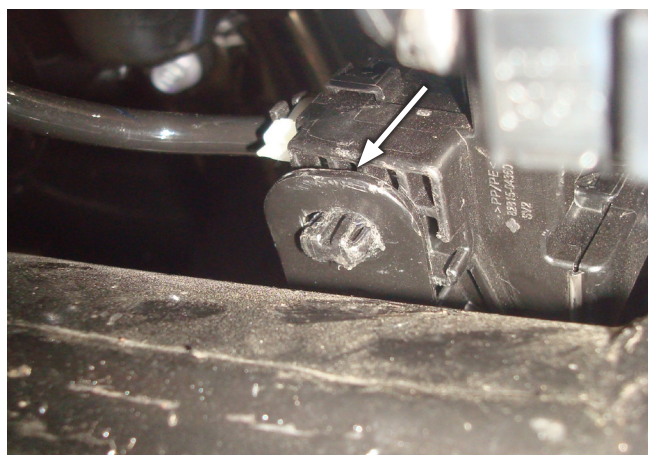


Fig. 6

6. Install the left- and right-hand wiring harness relocation brackets (P and Q) onto the axle brackets the connectors were previously removed from, with the 1/4" hex-head bolt (R) and 1/4" serrated flange lock nut (S). Mount with the flanges on the brackets facing down to lock them in place (Fig. 7). Torque to 65 lb.-in. (7Nm).

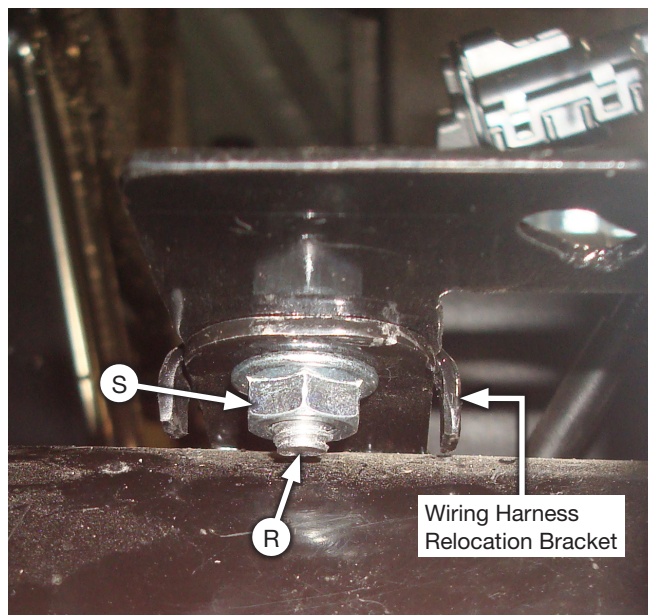


Fig. 7

ASSEMBLE THE AIR SPRING ASSEMBLIES

1. Set a roll plate (F) on top of the air spring (E) and install the straight fitting (G) finger-tight (Fig. 8). Torque the fitting one and a half turns.

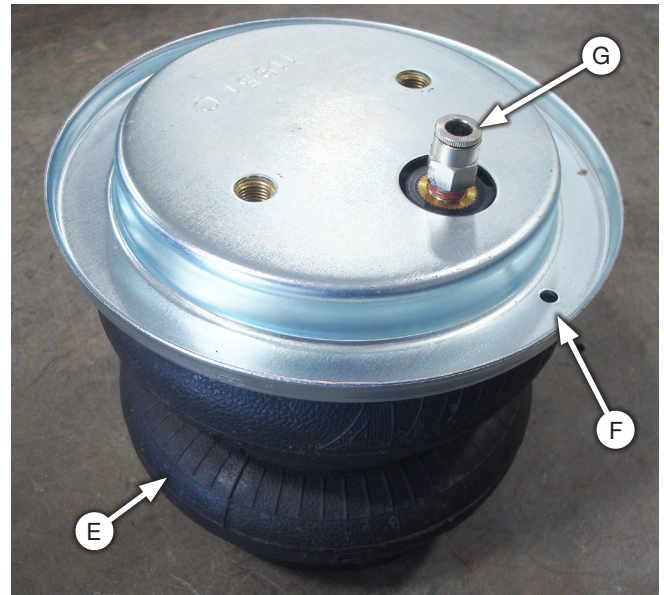


Fig. 8

2. Set the upper brackets (C and D) onto the air spring assemblies making sure the large hole is aligned with the fitting. Install the bracket using the 3/8" button head cap screws (H) and torque to no more than 20 lbs.-ft. (27Nm) (Fig. 9).

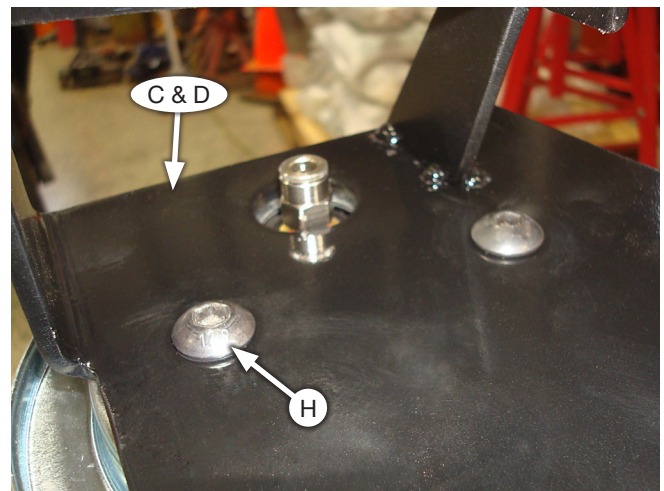


Fig. 9

3. Flip both assemblies' upside down and insert the 3/8" carriage bolts (I) into the lower brackets (B) making sure that they nest down into the pockets (Fig. 10).

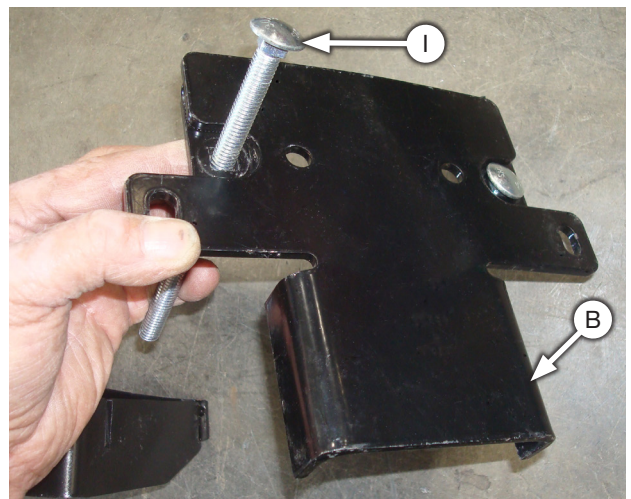


Fig. 10

4. Set a roll plate (F) and the lower bracket with the carriage bolts inserted, onto the bottom of the air spring assembly and attach with the button-head cap screws (H) (Fig. 11). Torque to no more than 20 lb.-ft. (27Nm).


NOTE

Make sure the flange on the lower bracket is installed on the opposite side of the air fitting at the top of the air spring assembly.

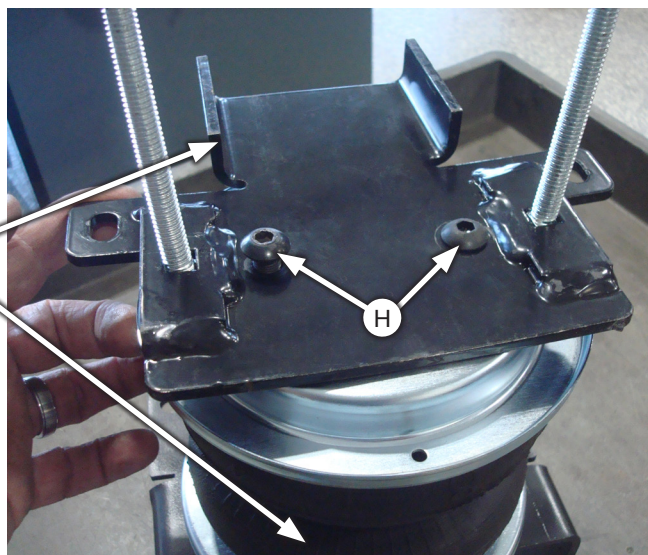


Fig. 11

5. Fig. 12 shows the left (driver's side) and right (passenger's side) assemblies ready to install.



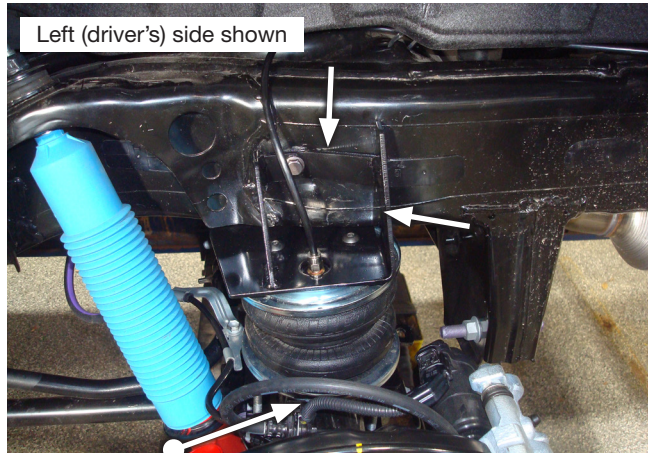
Driver's (left) side

Passenger's (right) side

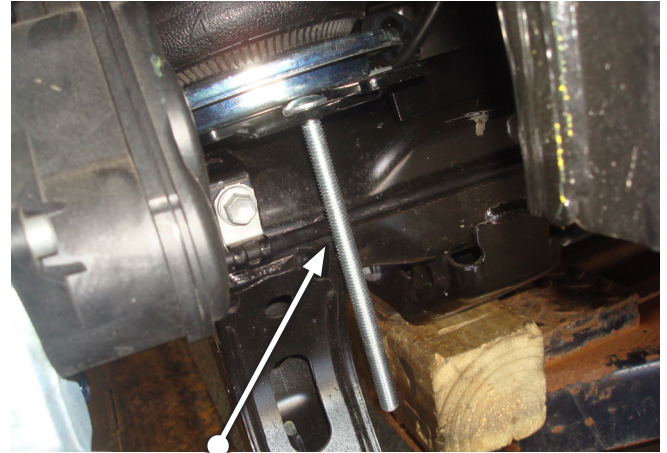
Fig. 12

INSTALL THE AIR SPRING ASSEMBLIES

1. Lift the ABS line that was previously disconnected (forward of the axle) and put the left- and right-hand assemblies into position making sure the carriage bolts are on the back side of the brake line that runs along the back of the axle (Fig. 13 & Fig. 14). When setting the assemblies over the axle, push down on the air springs to compress them enough for the upper bracket to nest under the frame. Push the assemblies inboard so that the upper bracket comes in contact with the frame.



Make sure ABS line is above the lower bracket when setting assemblies into position on the axle. *Fig. 13*



Make sure carriage bolt is on the back side of the brake line on the axle. *Fig. 14*

2. Line up the slots in the upper bracket to the existing holes in the side, and forward/underneath the frame, and install two M8 hex flange bolts (J) (Fig. 15). Make sure to start each bolt with only a few threads, then tighten evenly when installing, securing the upper bracket to the frame. Snug first, then torque to 18 lb.-ft. (24Nm).

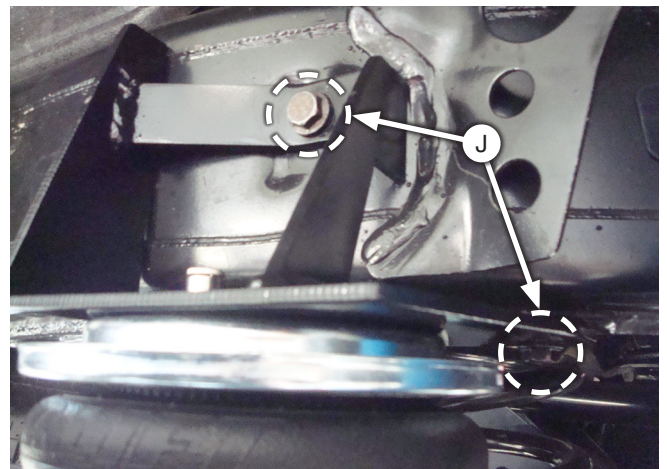


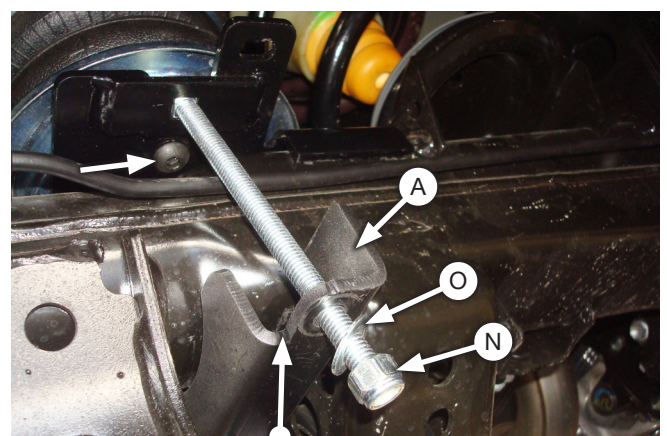
Fig. 15

3. Install the lower clamp bar (A) over the carriage bolts under the axle making sure the cutout faces the wheel side of the vehicle (Fig. 16). Cap with 3/8" flat washer (O) and nylon lock nut (N). Push the lower bracket inboard as far as possible to align the air spring. With the clamp bar slightly inboard on the axle, tighten the hardware evenly and torque to 10 lb.-ft. (13Nm).



NOTE

Shock clearance will be close.



Cutout in clamp bar faces the outside of the vehicle. *Fig. 16*

4. Remove the OEM brake line clips on the axle and flip them around (Fig. 17 & Fig. 18) or push the line towards the axle to bend it out of the way.



CAUTION

THE BRAKE LINES SHOULD NOT TOUCH THE CARRIAGE BOLTS. PUSH OR BEND THE BRAKE LINES AS NEEDED TO KEEP THEM OUT OF THE WAY OF THE CARRIAGE BOLTS.

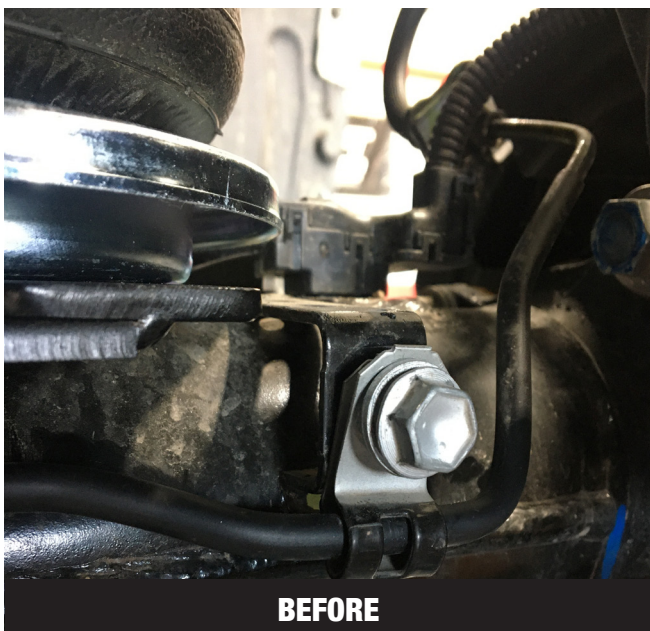
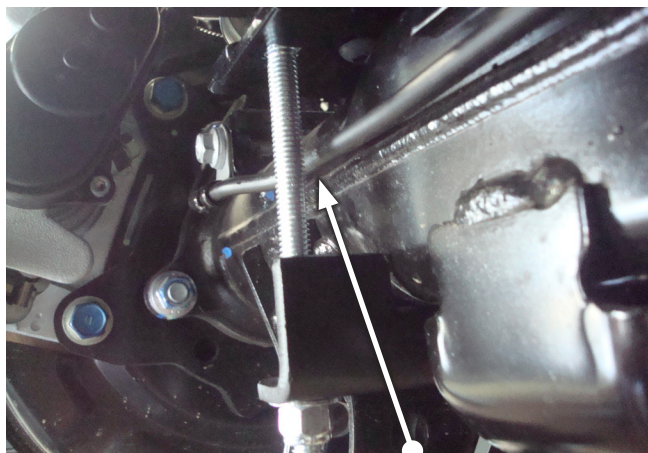


Fig. 17



Fig. 18

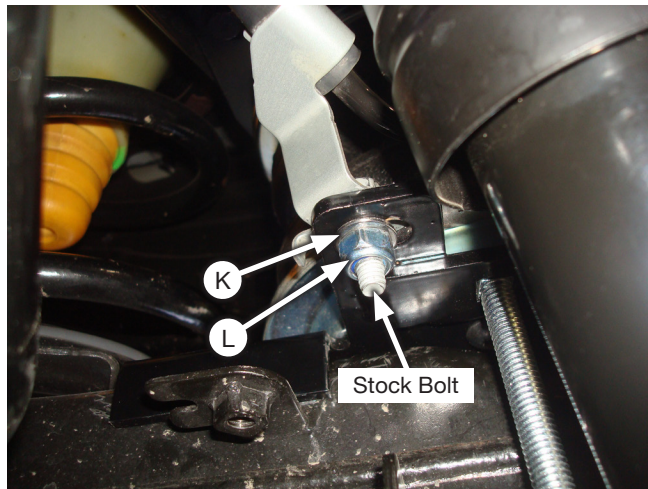
5. Check the clearance on the carriage bolt to hard brake line. To increase the clearance, push on the brake line, if necessary, create a gap between them so the carriage bolt is not rubbing on the brake line (Fig. 19).



There must be a space between the brake line and carriage bolt.

Fig. 19

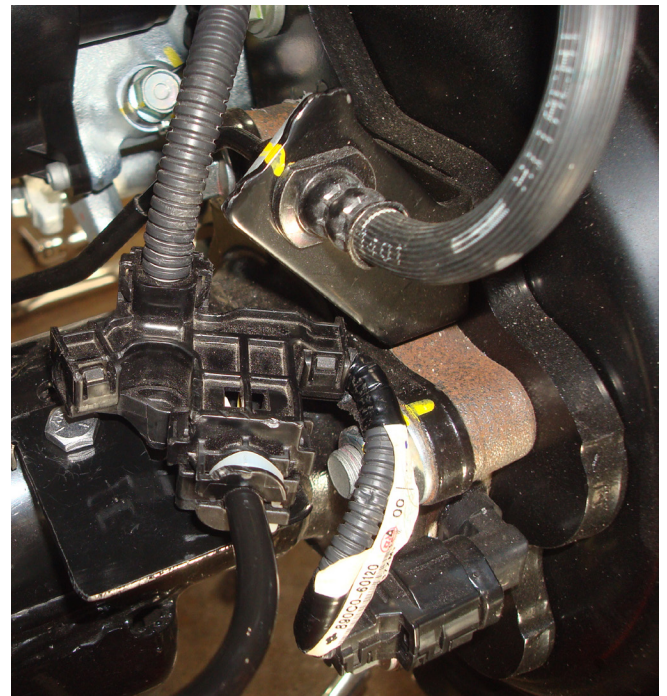
6. Using the stock bolt removed, supplied M8 flat washer (K) and M8 nylon lock nut (L), attach the ABS line to the front of the lower bracket (Fig. 20). Position the bracket so there is clearance between the roll plate and the shock (Fig. 21). Tighten hardware securely.

*Fig. 20*

Adjust so there is clearance on both roll plate and shock before tightening hardware.

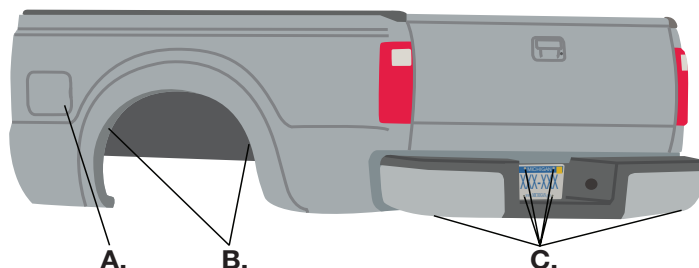
Fig. 21

7. Push the connector into the new bracket. Fig. 22 shows the top view, passenger's (right) side installation.

*Fig. 22*

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



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.

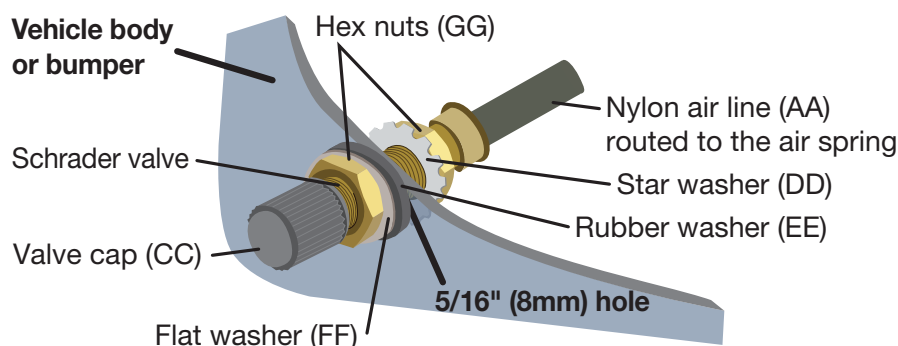
Good cut



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).
4. Install the Schrader valve in the chosen location.

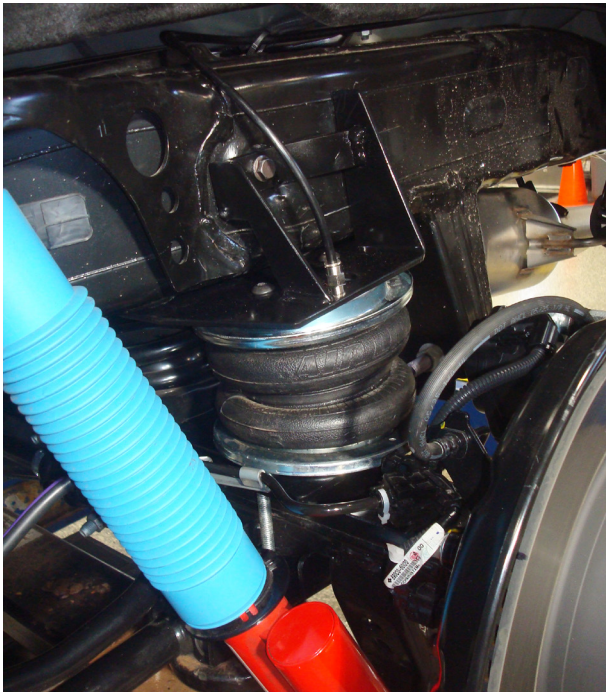


FINISH THE INSTALLATION

1. Install the rear tires and torque the wheel nuts to factory specifications. Remove jack stands.

Finished Installation

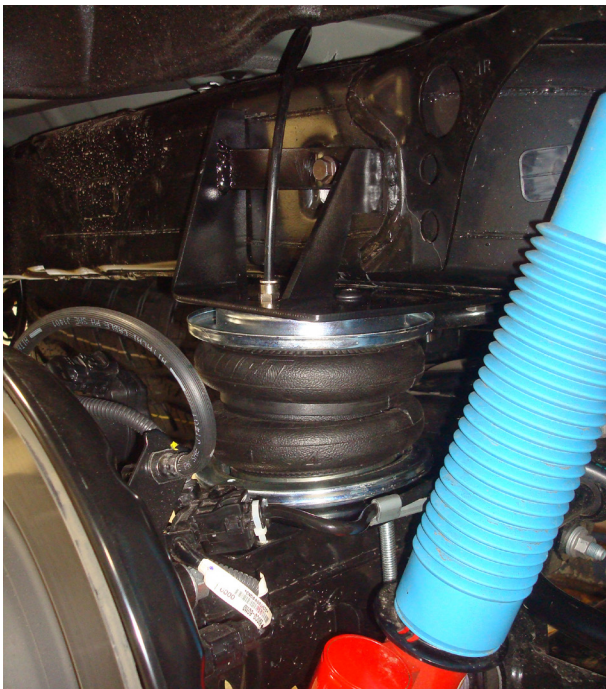
The images show the finished installation of both sides.



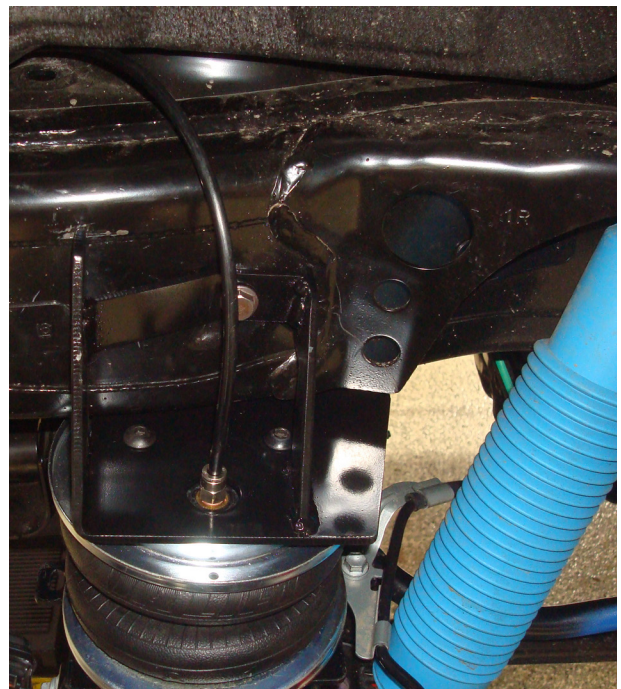
Driver's (Left) side front view



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.

Notes

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.



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