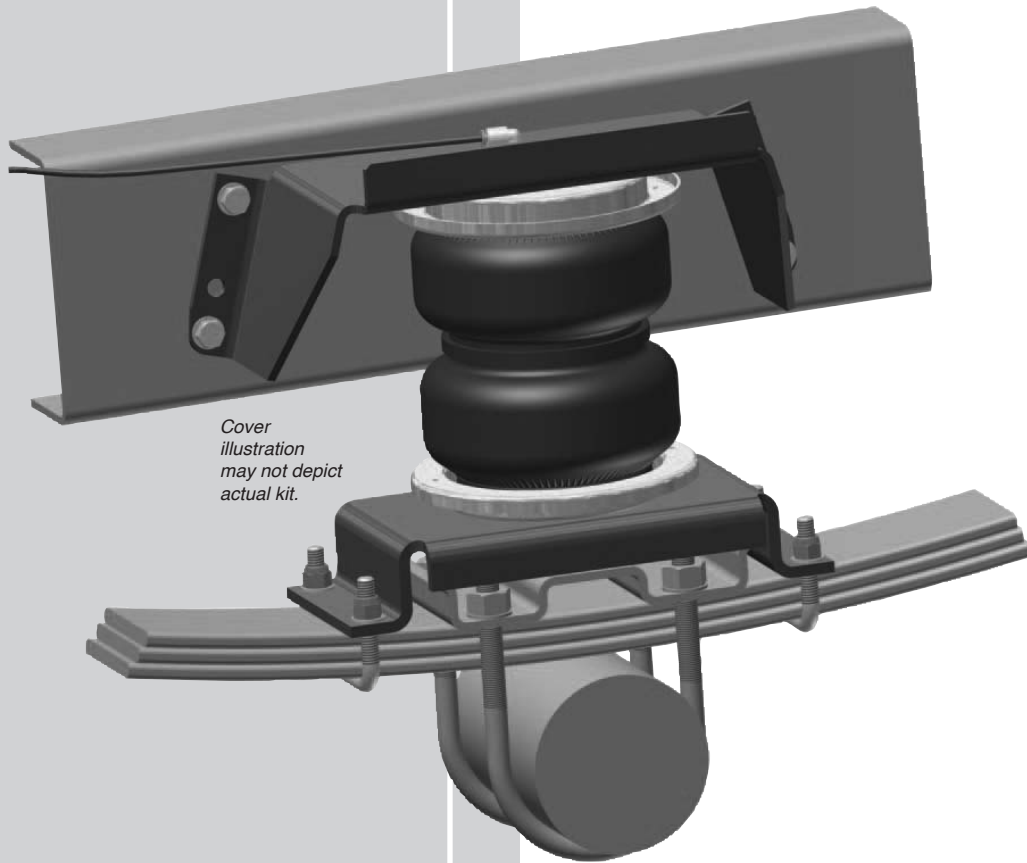


LoadLifter 5000™

Kits 57410 & 57344

Ford F-53 Class "A"



*Cover
illustration
may not depict
actual kit.*



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, maintenance and troubleshooting of the LoadLifter 5000 air spring kit. LoadLifter 5000 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. LoadLifter 5000 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 (0.34-6.9 Bar). The kits are also used in motorhome rear kits and some motorhome fronts 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, safety information and a troubleshooting guide.

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.

IMPORTANT SAFETY NOTICE

The installation of this kit does not alter the Gross Vehicle Weight Rating (GVWR) or payload of the vehicle. Check your vehicle's owner's manual and do not exceed the maximum load listed for your 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.



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.



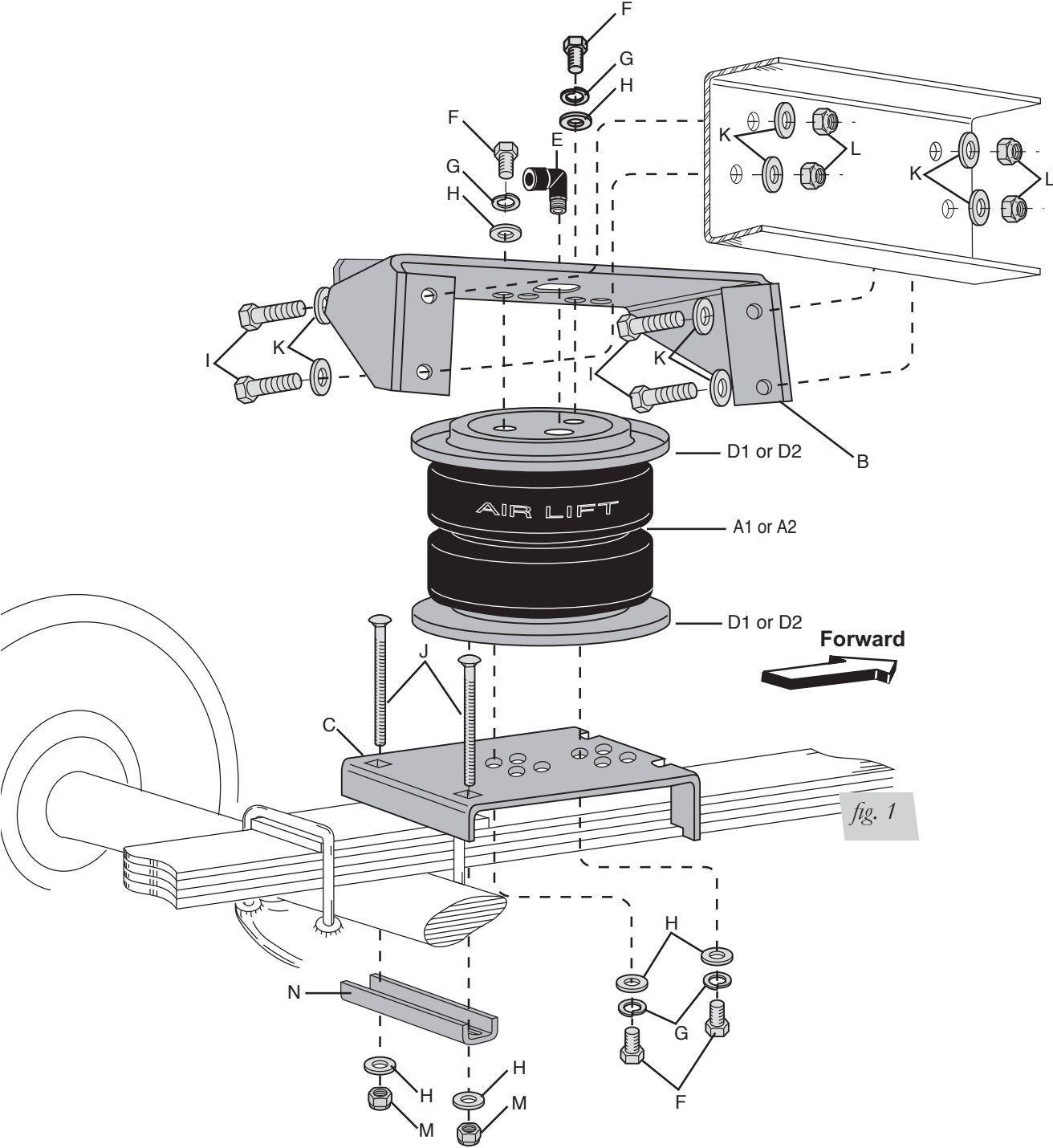
CAUTION

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



HARDWARE LIST

Item	Part #	Description.....Qty	Item	Part #	Description.....Qty
A1	58115	Air spring (57410)2	K	18414	1/2" Flat washer16
A2	58437	Air Spring (57344).....2	L	18460	1/2" Nylon lock nut8
B	07887	Upper bracket2	M	18435	3/8" Nylon lock nut4
C	03605	Lower bracket2	N	01665	Clamp bar2
D1	11897	Roll plate (57410).....4	AA*	20086	Air line assembly.....1
D2	11951	Roll plate (57344).....4	BB*	10466	Zip tie6
E	21830	Elbow fitting2	CC*	21230	Valve cap2
F	17203	3/8"-24 x 7/8" Bolt8	DD*	18405	5/16" Flat washer2
G	18407	3/8" Lock washer8	EE*	21234	Rubber washer.....2
H	18444	3/8" Flat washer12	FF*	18411	Star washer.....2
I	17146	1/2"-13 x 1.5" HHCS bolt8	GG*	21233	5/16" Hex nut4
J	17133	3/8"-16 x 6" Carriage bolt.....4	* Not shown in figure 1.		



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

TOOLS LIST

Description..... Qty	Description..... Qty
Standard and Metric open-end wrenches	Hose cutter, razor blade, or sharp knife..... 1
Adjustable wrench 1	Hoist or floor jacks 1
Ratchet with 9/16", 1/2" & 3/4" deep well sockets.. 1	Safety stands..... 2
5/16" and 1/2" drill bits (very sharp)..... 1	Safety glasses 1
Adjustable wrench 1	Air compressor or compressed air source..... 1
Heavy duty drill 1	Spray bottle with dish soap/water solution 1

Installing the LoadLifter 5000 System

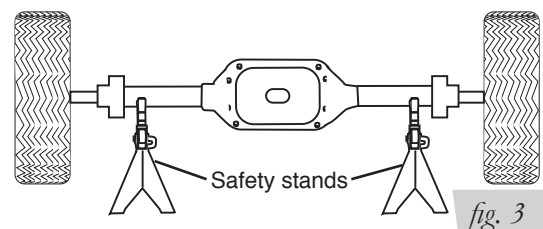
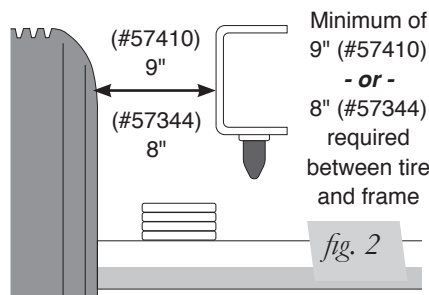


COMPRESSED AIR CAN CAUSE INJURY AND DAMAGE TO THE VEHICLE AND PARTS IF IT IS NOT HANDLED PROPERLY. FOR YOUR SAFETY, DO NOT TRY TO INFLATE THE AIR SPRINGS UNTIL THEY HAVE BEEN PROPERLY SECURED TO THE VEHICLE.

GETTING STARTED

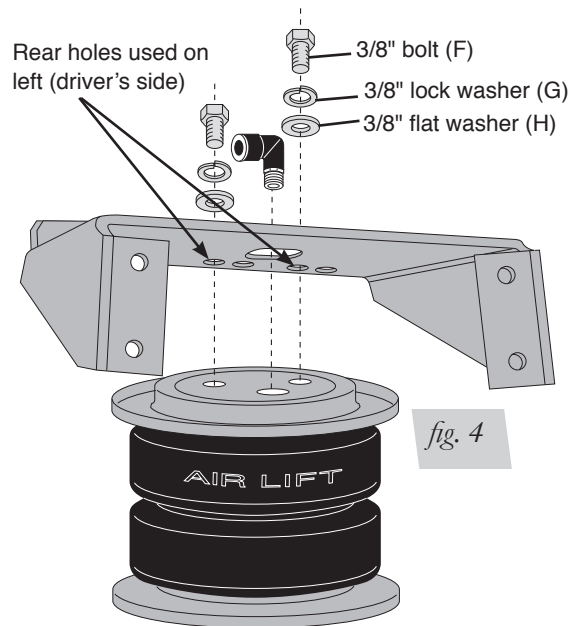
IMPORTANT: 1.) There must be at LEAST 9" between the tire and the frame to install LoadLifter 5000 kit #57410. 2.) There must be at LEAST 8" between the tire and the frame to install LoadLifter 5000 kit #57344. (fig. 2)

1. Raise the vehicle, remove the wheels, and obtain normal ride height (fig. 3).
2. Remove the emergency brake cable bracket from the driver side spring retainer. Save the bolt for later use.
3. Remove both jounce bumpers from under the frame above the axle. Save for later use.

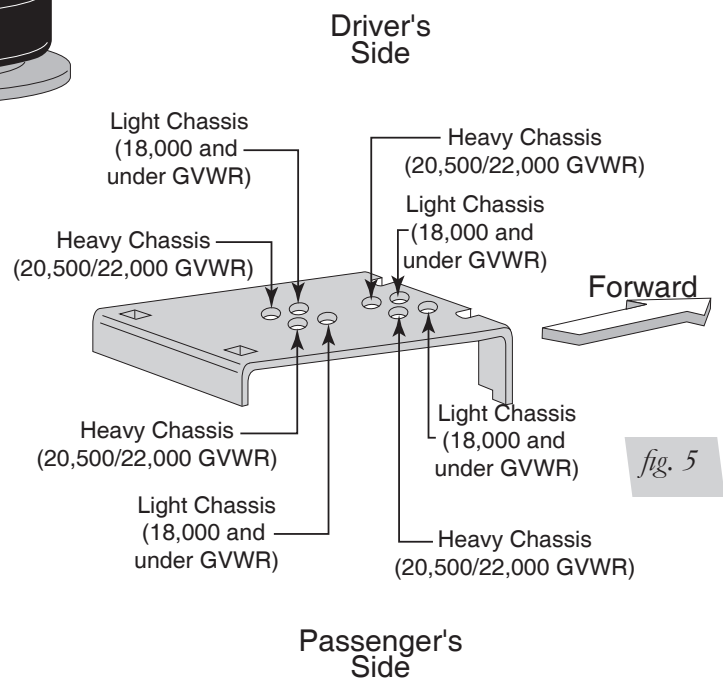


ASSEMBLING THE AIR SPRING ASSEMBLY

1. Set a roll plate (D) on both ends of the air spring (A). The radiused (rounded) edge of the roll plate will be towards the air spring, enabling the air spring to be seated in both roll plates (fig. 4).
2. Install a 90 degree elbow fitting (E) to the top of the air spring. Tighten finger-tight plus 1 and 1/2 turns. Be careful to only tighten on the metal hex nut. Do not over tighten (fig. 4).
3. When installing the upper bracket (B) to the air spring and roll plate, use the rearward holes for the left (driver's side) installation. On the right (passenger's side) of the vehicle, continue to use the most rearward holes (fig. 4). The upper bracket is marked "L" and "R" on the top. Attach the assembly using two 3/8" bolts (F), lock washers (G), and flat washers (H). Tighten hardware to 20 lb.-ft.
4. To find the proper air spring mounting holes on the lower bracket (fig. 5), place the template, provided on page 11, on to the top of the lower bracket (C). Be sure to line up the outside edges of the bracket to the outline on the template. Using the key on the template, determine and mark the correct mounting holes. The driver's side will use one of the sets of holes on the left side of the template/bracket, and the passenger's side will use one of the sets of holes on the right side of the template/bracket.



See template on page 11



5. Upon determining the correct mounting holes on the lower bracket, insert two carriage bolts (J) into the lower bracket (fig. 1). Attach the air spring assembly to the lower bracket using two 3/8" bolts (F), lock washers (G), and flat washers (H). Tighten bolts to 20 lb.-ft.

ATTACHING THE AIR SPRING ASSEMBLY

NOTE

It may be necessary to support the frame and drop the axle to obtain sufficient clearance in order to install the assembly.

1. Set the assembly on the leaf spring forward of the axle.

NOTE

The rear of the lower bracket should hook around the forward U-bolt (fig. 1).

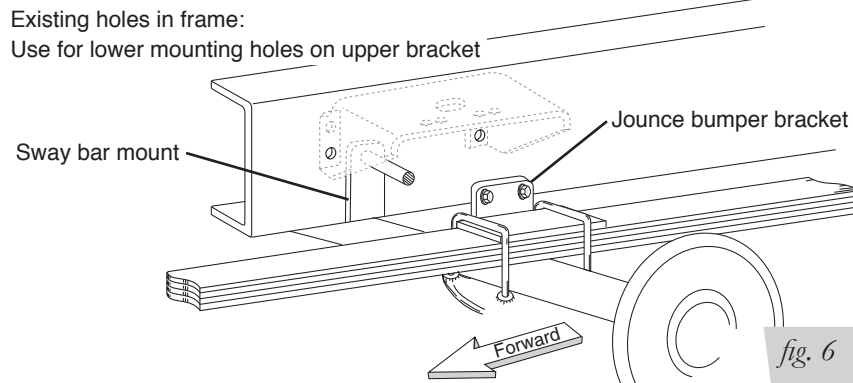
2. Using the existing holes in the frame (fig. 6), loosely attach the upper bracket (B) with a 1/2" HHCS bolt (I), two 1/2" flat washers (K), and 1/2" nylon lock nut (L) through both of the lower mounting holes in the upper bracket (fig. 1).

NOTE

The rearward existing hole in the frame is located directly over the jounce bumper bracket. Also, the upper bracket goes around the sway bar mount (fig. 6).

NOTE

Some late models do not have any existing holes to line up the upper bracket. With the assembly set into position, raise the axle up (if dropped to set the assembly into position) so the upper bracket is just below the frame and parallel to the lower bracket. Mark all four holes. Drop the axle (if needed to remove the assembly) and remove the assembly to drill the holes. (figs. 1 & 6)



3. Center punch the upper (and, if needed, the lower) mounting holes.
4. Drill a 1/2" hole for both upper mounting holes, or all four if needed.
5. Use a 1/2" HHCS bolt (I), two 1/2" flat washers (K), and 1/2" nylon lock nut (L) in each hole to secure the bracket to the frame (fig. 1). Tighten to 80 lb.-ft.
6. Attach the lower bracket to the leaf spring using the clamp bar (N), 3/8" flat washers (H), and 3/8" nylon lock nuts (M). Tighten the carriage bolt hardware to 16 lb.-ft. (fig. 1).

INSTALLING THE AIR LINES

1. Choose a convenient location for mounting the inflation valves. Popular locations for the inflation valve are:
 - a. The wheel well flanges.
 - b. License plate recess in bumper.
 - c. Under the gas cap access door.
 - d. Through license plate itself.

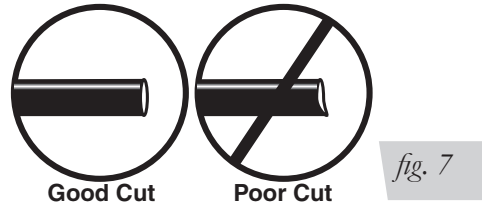
NOTE

Whatever the chosen location is, make sure there is enough clearance around the inflation valves for an air chuck.

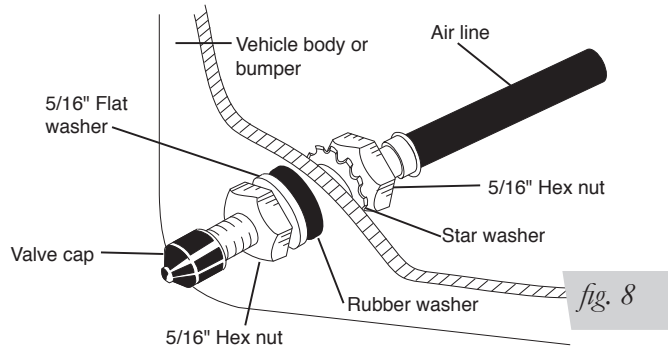
2. Drill a 5/16" hole to install the inflation valves.
3. Cut the air line assembly in two equal lengths.

CAUTION

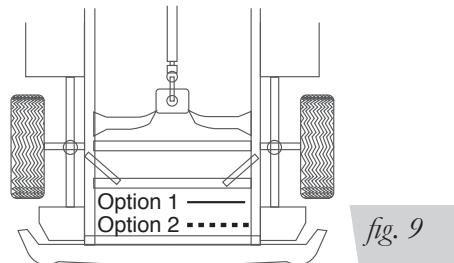
WHEN CUTTING OR TRIMMING THE AIR LINE, USE A HOSE CUTTER, A RAZOR BLADE, OR A SHARP KNIFE. A CLEAN, SQUARE CUT WILL ENSURE AGAINST LEAKS. DO NOT USE WIRE CUTTERS OR SCISSORS TO CUT THE AIR LINE. THESE TOOLS MAY FLATTEN OR CRIMP THE AIR LINE CAUSING IT TO LEAK AROUND THE O-RING SEAL INSIDE THE ELBOW FITTING (FIG. 7).



4. Place a 5/16" nut and star washer on the air valve. Leave enough of the inflation valve in front of the nut to extend through the hole and have room for the rubber washer, flat washer, and 5/16" nut and cap. There should be enough valve exposed after installation—approximately 1/2"— to easily apply a pressure gauge or an air chuck (fig. 8).



5. Push the inflation valve through the hole and use the rubber washer, flat washer, and another 5/16" nut to secure it in place. Tighten the nuts to secure the assembly.
6. Route the air line along the frame to the air fitting on the air spring (fig. 9). Keep AT LEAST 6" of clearance between the air line and heat sources, such as the exhaust pipes, muffler, or catalytic converter. Avoid sharp bends and edges. Use the plastic zip ties to secure the air line to fixed, non-moving points along the chassis. Be sure that the zip ties are tight, but do not pinch the air line. Leave at least 2" of slack to allow for any movement that might pull on the air line (fig. 9).



7. Cut off the air line, leaving approximately 12" of extra air line. A clean square cut will ensure against leaks. Insert the air line into the air fitting. This is a push-to-connect fitting. Simply push the air line into the 90 degree swivel fitting until it bottoms out (9/16" of air line should be in the fitting).
8. Install the minimum/maximum air pressure decal in a highly visible location. We suggest placing the decal on the driver-side window, just above the door handle.

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 preceding 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.



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.

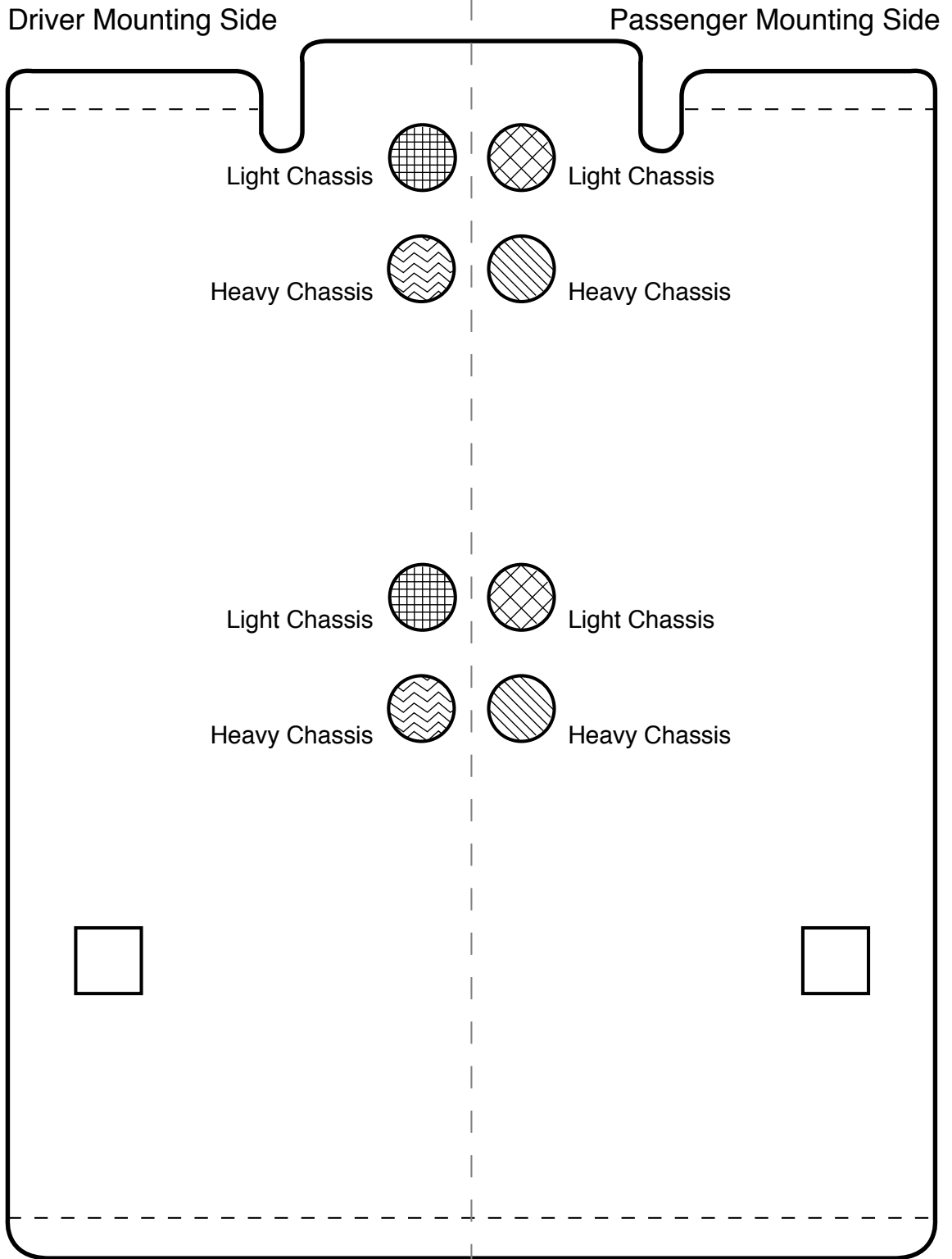


Limited Warranty and Return Policy

Air Lift Company provides a limited lifetime warranty to the original purchaser of its load support products, 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.

Notes



KEY



Left/Driver Side: For Light Chassis
(18,000 and under GVWR)



Right/Passenger Side: For Light Chassis
(18,000 and under GVWR)



Left/Driver Side: For Heavy Chassis
(20,500/22,000 GVWR)



Right/Passenger Side: For Heavy Chassis
(20,500/22,000 GVWR)

Need Help?

Contact our customer service department by calling (800) 248-0892. 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!

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JJC-0920



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