

Air Lift 1000™

Multiple Applications

*See special notes for your particular vehicle



*Cover image
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 and maintenance of the Air Lift 1000 air spring kit.

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 guidelines and operating tips.

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.

Installing the Air Lift 1000 System

PREPARING THE VEHICLE

NOTE *For Toyota Sequoia:* Before proceeding with the installation, measure up 6.75" (172mm) from the flat surface that the jounce bumper strikes inside the coil spring and mark a line onto the side of the jounce bumper. This is where the jounce bumper will be trimmed.

1. Jack up rear of vehicle or raise on hoist. Support frame with safety stands. Lower axle or raise body of vehicle until suspension is fully extended.
2. The coil springs must be removed for this installation.
 - a. Detach the shock absorbers at the lower shock mount.
 - b. Detach the panhard bar at the lower bar mount.
 - c. Temporarily disconnect the brake line mounting brackets on the rear axle. This will keep the tension off of the brake lines when the axle is dropped to remove the coil springs.
 - d. Carefully lower the axle until the coil springs are free. Do not strain brake lines. Mark the position of the cut end of the coil spring on the upper spring seat so that the coil springs can be reinstalled in the same position. Remove coil springs.
3. Cut off the exposed portion of the rubber jounce bumper (Fig. 1).

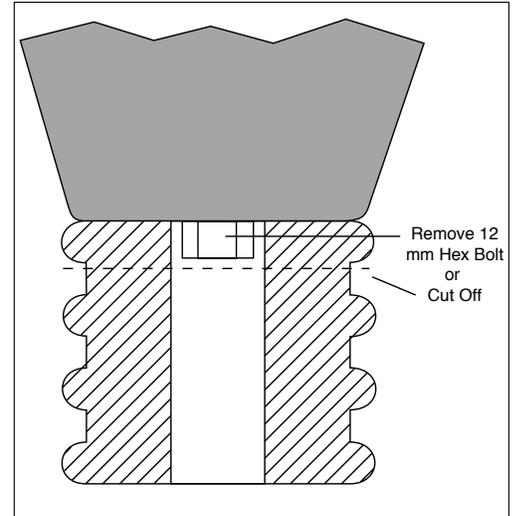


Figure 1

NOTE Sequoia cut on the previously marked line.

4. Cut out the template provided (Line B). Put a dab of grease on the template to hold it in place. Center the template in the cup of the upper side of the lower spring seat. Center punch and drill a 3/4" diameter hole. Remove any burrs and sharp edges.
5. User may select either Dual Air Line or Tee Air Line option depending on the use of the vehicle. Tee Air line installation is recommended unless weight on the vehicle varies from one side to the other, in which case Dual Air Line installation is recommended to level the vehicle side to side (See Installing the Air Lines to prep air springs before continuing).
6. Insert the air cylinders into the coil springs with air lines hanging down (Fig. 2).
7. Thread the air line through the drilled hole in the lower spring seat, routing the line to the side of the axle (front or rear) on which the inflation valves will be mounted.
8. Reinstall the coil springs in the vehicle. Be sure to line up the cut end of the upper coil spring with your mark on the upper spring seat. Carefully raise the axle to seat the springs.
9. Reattach all components disconnected under step 2.
 - a. Reconnect the brake lines to mounting brackets on the rear axle.
 - b. Reconnect the panhard bar.
 - c. Reconnect the shock absorbers.
10. Continue with Installing the Air Lines.

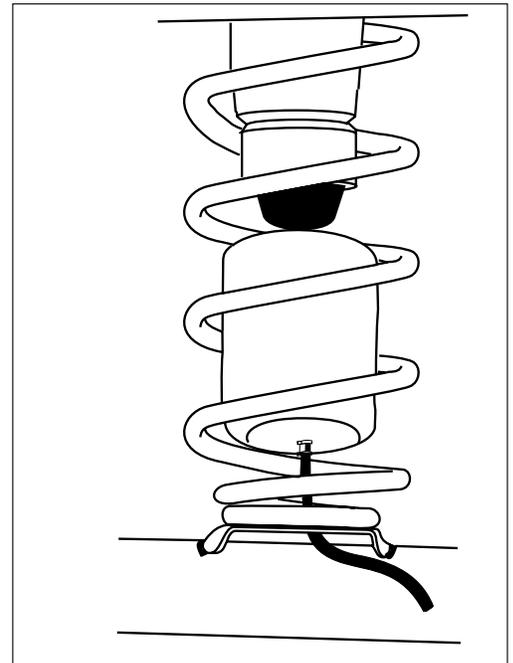


Figure 2

Installing the Air Lines

A single-path air line installation is recommended for vehicles that typically have even weight distribution (Fig. 3). If weight in the vehicle varies from side to side and unequal pressures are needed to level the load, use a dual-path installation. For dual-path air line installations, eliminate the tee fitting and route separate air lines for both air springs (Fig. 4).

Single-path Air Line Routing

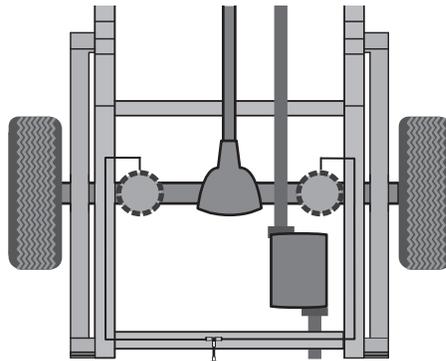


Figure 3

Dual-path Air Line Routing

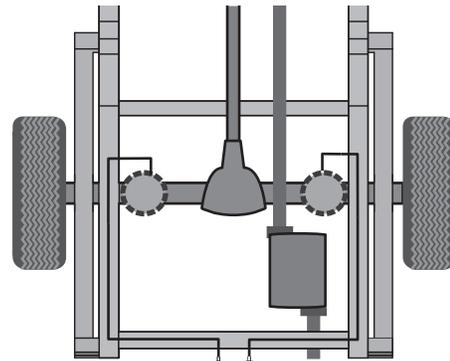


Figure 4

CAUTION

TO PREVENT THE AIR LINE FROM MELTING, MAINTAIN AT LEAST 6" (152MM) FROM THE EXHAUST SYSTEM TO THE AIR LINE.

1. If installing a single-path air line, choose a location for the tee fitting on the wheel well, license plate, or rear bumper. Determine and cut adequate length of air line to reach to the tee from left and right side air springs.

CAUTION

LEAVE SUFFICIENT AIR LINE SLACK TO PREVENT ANY STRAIN ON THE FITTING DURING AXLE MOTIONS.

2. Use this procedure (Fig. 5) for all air line connections:

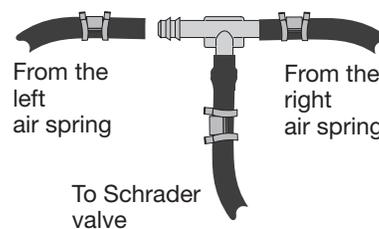


Figure 5

- a. Slide the air line clamp onto the air line.
- b. Push the air line and air line clamp over the barbed stem so that the air line covers all the barbs.
- c. Compress the ears on the air line clamp with pliers and slide it forward to fully cover the barbs.

3. Select a location for the Schrader valve, ensuring that the valve will be protected and accessible with an air hose (Fig. 6). Determine and cut adequate length of air line to reach from the tee to the Schrader valve or from the air springs to the valve if using a dual-path installation.

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

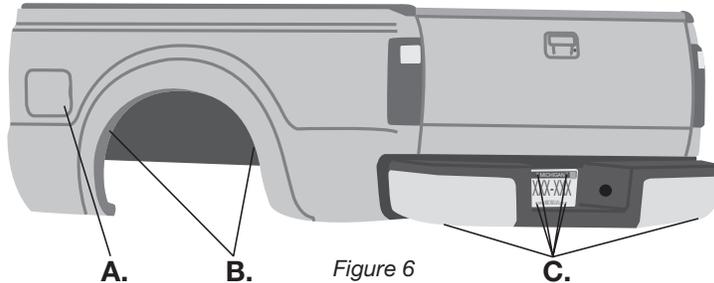


Figure 6

4. Drill a 5/16" (8mm) hole for the Schrader valve and mount as shown (Fig. 7). Install the air line on the Schrader valve first. The rubber washer serves as an outside weather seal.

CAUTION

DO NOT INFLATE THE AIR SPRINGS BEFORE READING THE MAINTENANCE AND USE GUIDELINES IN THIS INSTALLATION GUIDE AS WELL AS THE USER GUIDE INCLUDED WITH THIS KIT.

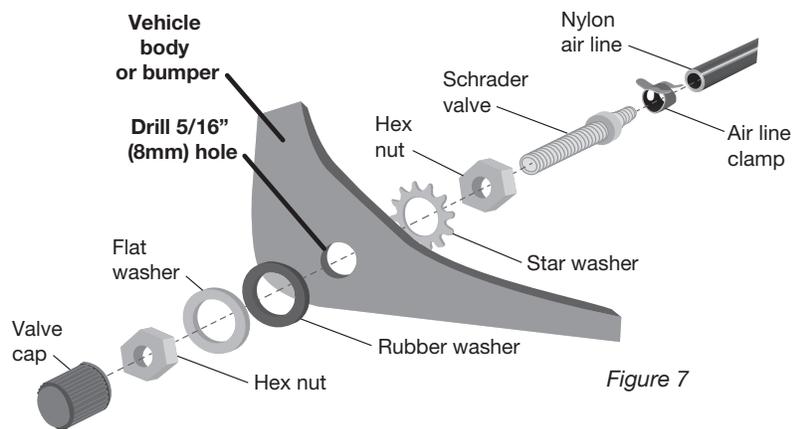


Figure 7

Before Operating

Consult the included User Guide for information about fixing air leaks along with more tips for maintenance and use before using the product.

INSTALLATION CHECKLIST

- Clearance test** — Inflate the air springs to 25-35 PSI (1.7-2.4BAR) and make sure there is at least 1/2" (13mm) clearance from anything that might rub against each air spring.
- Leak test before road test** — Inflate the air springs to 25-35 PSI (1.7-2.4BAR) and use a soapy water solution to 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**.
- Road test** — The vehicle should be road tested after the preceding tests. Inflate the air springs so that the vehicle is level. 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 User Guide 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 35 PSI (2.4BAR).
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 |
|------------------------------|
| 5 PSI (.34BAR) |

| Maximum Air Pressure |
|------------------------|
| 35 PSI (2.4BAR) |

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.

CAUTION

ALTHOUGH THE AIR SPRINGS ARE RATED AT A MAXIMUM INFLATION PRESSURE OF 35 PSI (2.4BAR), THE AIR PRESSURE ACTUALLY NEEDED IS DEPENDENT ON LOAD AND GROSS VEHICLE WEIGHT RATING.

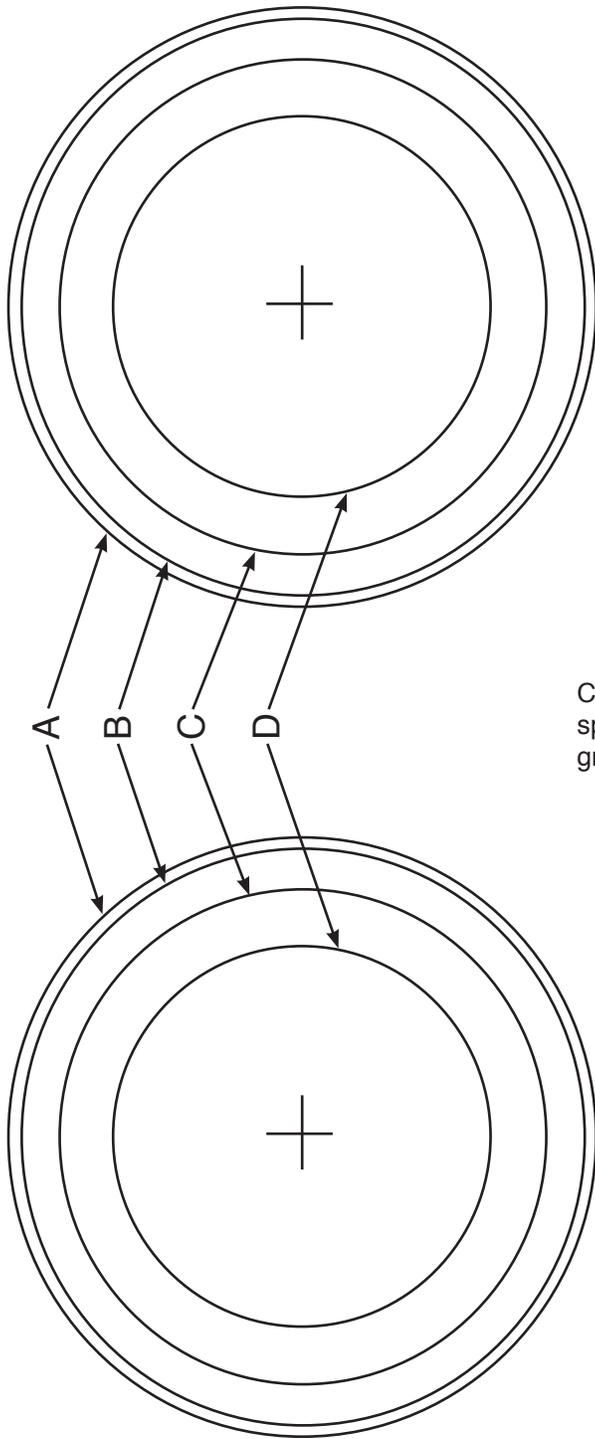
LIMITED WARRANTY AND RETURN POLICY

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

Template



Cut out and stick to lower spring seat with a dab of grease.

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!

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