

P/N 59201

Please read these instructions completely before proceeding with the installation.

## FRAME

### Air Spring Kit Parts List

Item	Description	Quantity
A	Air Sleeve	2
B	Upper Bracket	2
C	Lower Bracket	2
D	Air Fitting	2
E	3/4"-16 Jam Nut	2
F	1/2" x 7/8" Hex Head Bolt	2
G	1/2" Flat Washer	2
H	3/8" U-Bolt	2
I	3/8" Flat Washer	4
J	3/8"-16 Nyloc Nut	4

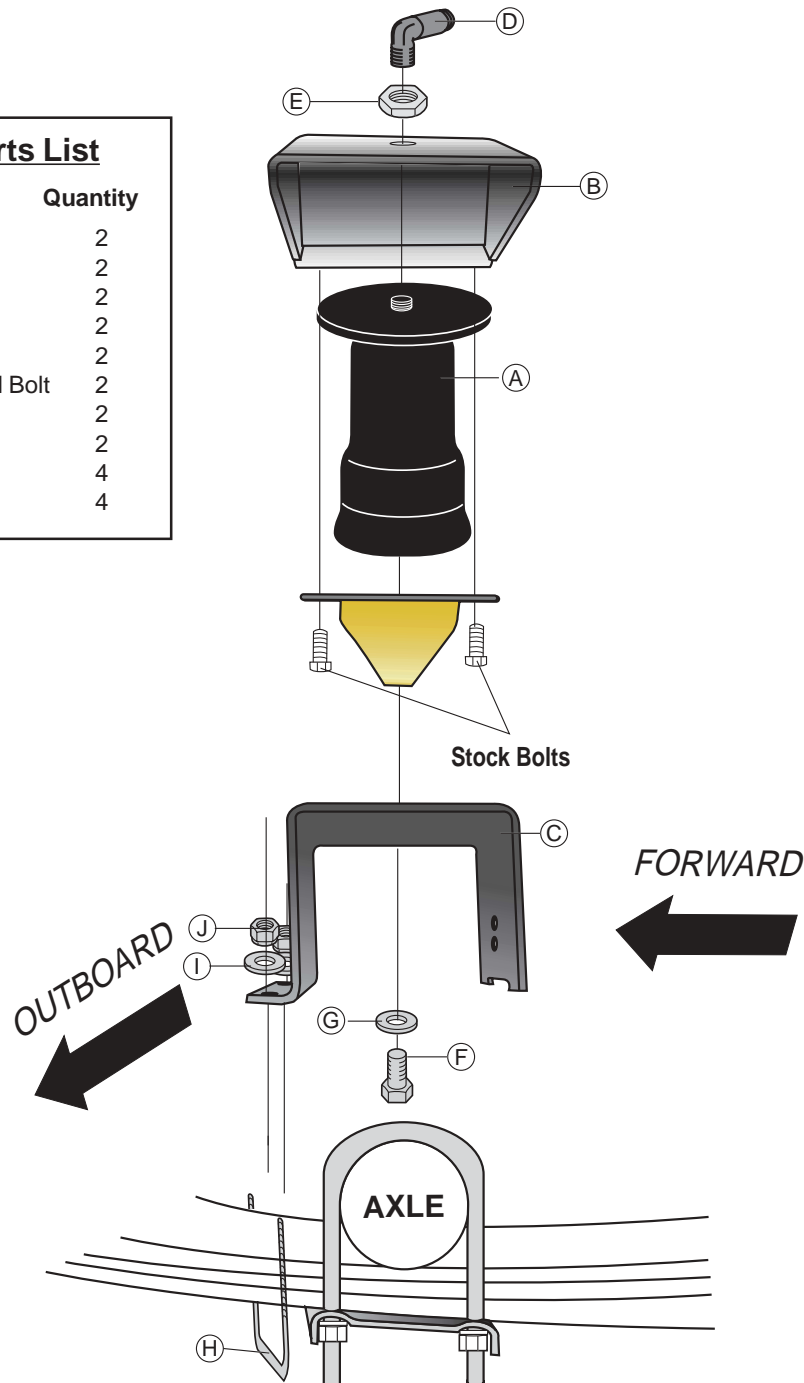


Figure 1

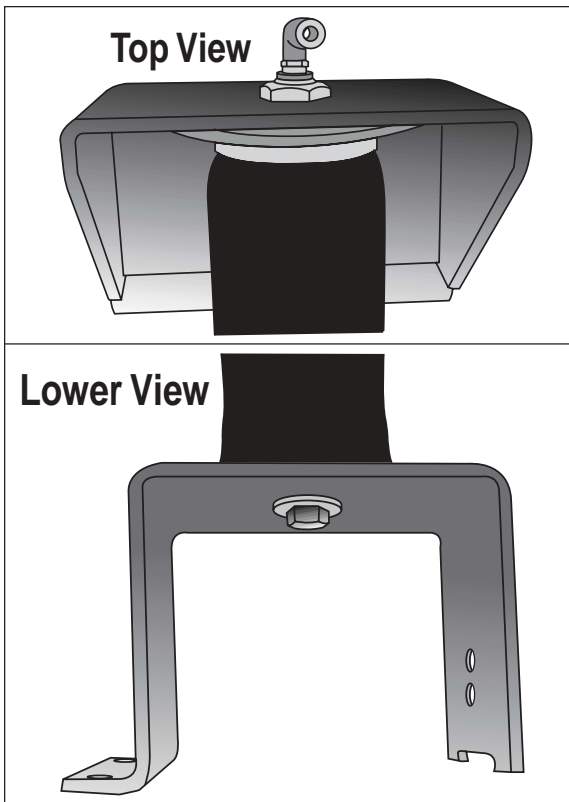


Figure 2

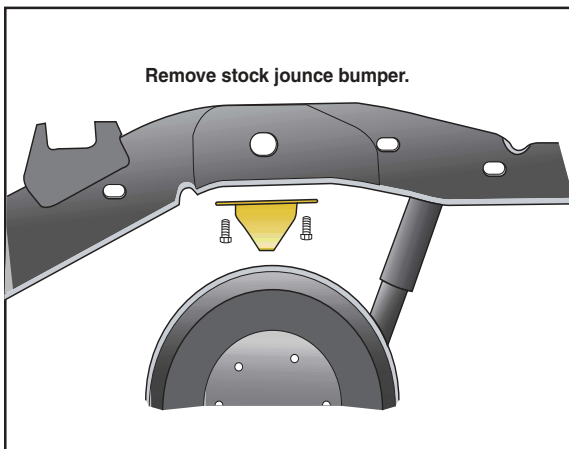


Figure 3

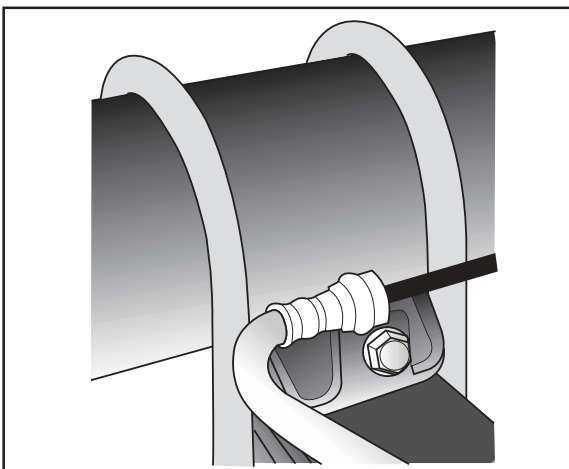


Figure 4

## I. Installing the Assembly

**IMPORTANT:** Your vehicle may be equipped with a rear brake proportioning valve. Any type of load assist suspension product could affect brake performance. It is recommended that you check with your dealer before installing this type of product. If your vehicle does not have a proportioning valve or is equipped with an anti-lock brake system, no adjustment or modification is required.

1. Attach the air sleeve to the upper and lower brackets. Leave the lower bolt loose at this time. Install the air fitting and tighten finger tight plus 1.5 turns (Figure 2).
2. Remove the jounce bumper by removing the two bolts that attach the bumper to the frame. Save the bolts for later use (Figure 3).
3. Remove the brake line hanger bolt that screws into the spring perch. Save the bolt for later use (Figure 4).
4. Set the air sleeve assembly in place over the axle (Figure 1).
5. Reattach the jounce bumper by inserting the stock bolts saved from step 2 through the jounce bumper, upper mounting bracket, and frame. Leave loose at this time (Figure 5).
6. Position the lower bracket so that it is between the spring perch and brake line hanger. Insert the brake line tab through the top indexing hole on the rearward side of the lower bracket (Figure 6).
7. Insert the OEM brake line bolt from step 3 through the brake line tab and the lower hole on the rear side of the bottom bracket. Tighten securely.
8. On the forward side of the bottom bracket, install the supplied U-bolt, two flat washers, and two nyloc nuts (Figure 7). Tighten securely.
9. Adjust the air sleeve side-to-side (forward and rearward) through the slot in the frame to align the spring so it is perpendicular to both the upper and lower brackets.
10. Once the top of the assembly is in place, tighten the jounce bumper bolts. Torque to 30 ft.lbs.

**NOTE:** Do not overtighten or strip the bolts.

11. Inflate the air sleeve to 10 lbs. and adjust the bottom of the sleeve inboard and outboard within the bottom bracket. When the desired position is achieved, tighten the bottom air sleeve bolt to secure the sleeve in place.

## II. Installing the Air Line

1. Select a location on the vehicle for the air inflation valves (Figure 8). The location can be on the bumper or on the body of the vehicle, but be sure that it is protected so that the valve will not be damaged and will still be accessible for the air chuck.

2. Use a standard tube cutter or razor blade to cut the air line into two equal parts. A clean, square cut will ensure against leaks. Drill a 5/16" hole and install the air inflation valve (Figure 9). Run the air line from the inflation valve to the air springs. Route the air line so that it will be protected from the direct heat from the muffler or tail pipe and kept away from sharp edges. The air line should not bend or curve sharply. Secure the air line in place with the supplied nylon tie straps.

3. Cut off excess air line. Insert into the air fitting in the top of the air spring. Push the air line into the fitting as far as it will go (9/16"). You should feel a definite "click". This is a self-locking fitting and the air line is now installed.

4. Inflate the air springs to 30 p.s.i. and check all fittings and connectors for air leaks with a solution of soap and water. Check once again to be sure you have proper clearance around the air spring. Tighten the top nut to 4 ft.lbs. Tighten the bottom bolt.

*NOTE: Do not overtighten.*

5. Re-check the air pressure after 24 hours. An air loss of 2-4 p.s.i. is normal after initial installation. If the pressure has dropped more than 4 lbs., re-test for leaks with a soapy water solution. Please read and follow the Maintenance and Operating tips.

*NOTE: Check to see that the sleeve rolls back down over the bottom piston after the vehicle is lowered.*

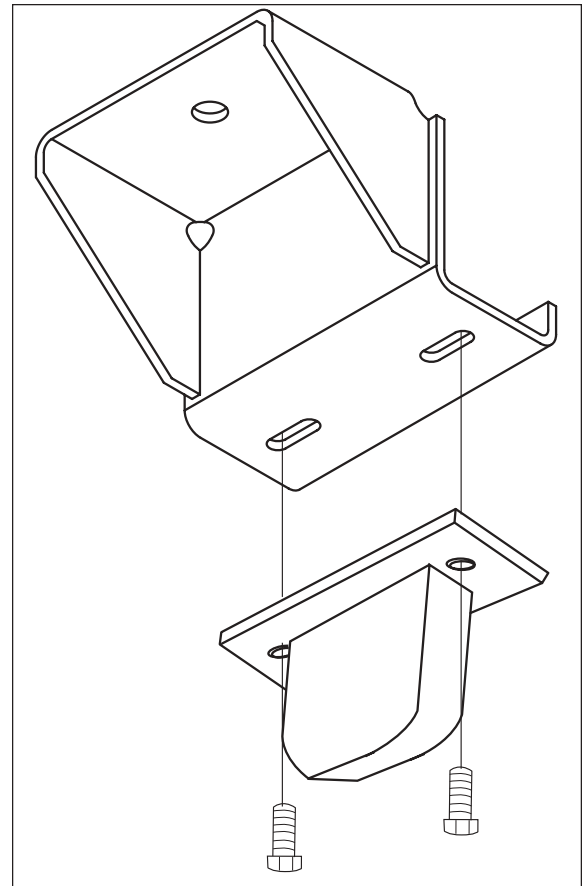


Figure 5

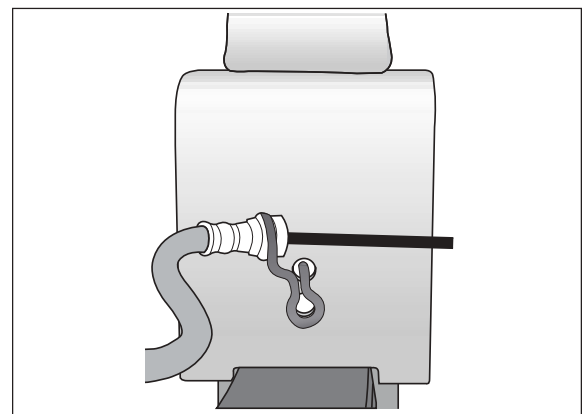


Figure 6

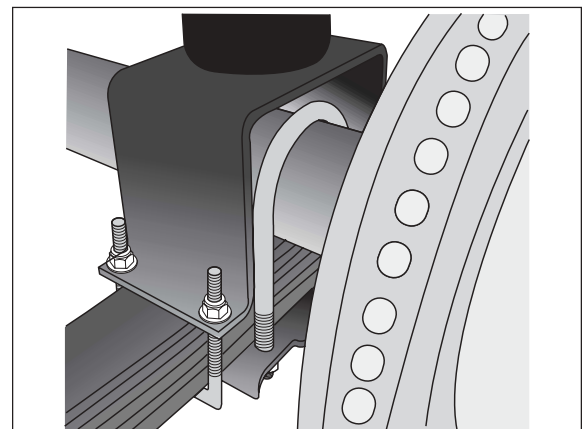


Figure 7

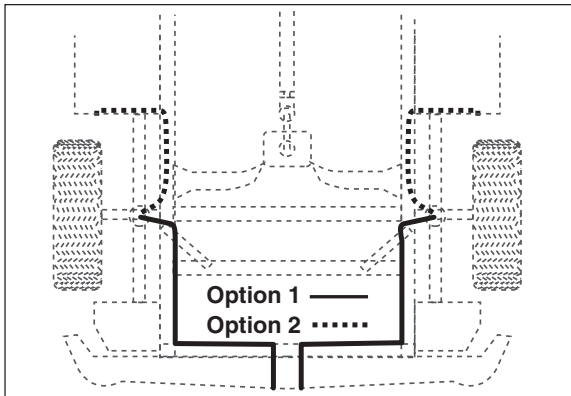


Figure 8

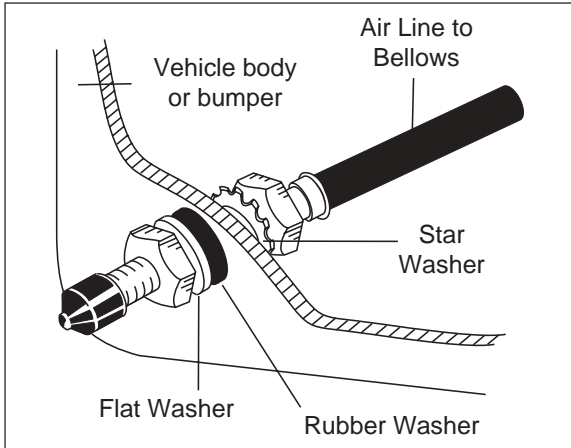


Figure 9

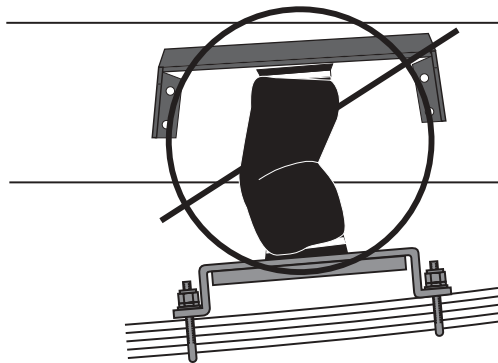
## MAINTENANCE

1. **Always maintain Normal Ride Height.** Never inflate beyond 100 p.s.i. Always keep at least 10 p.s.i. in each air spring.
2. Check the air pressure in the springs weekly.
3. If you develop an air leak in the system, use a soapy water solution to check all air line connections and the inflation valve core before removing air spring.

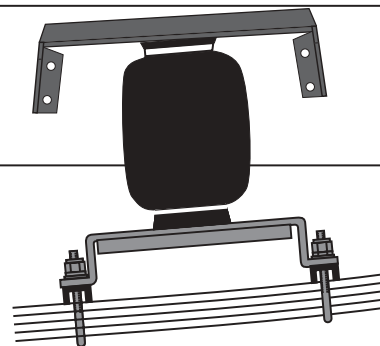
## OPERATING TIPS

1. Always adjust the air pressure to maintain the Normal Ride Height. Increase or decrease pressure from the system as necessary to attain Normal Ride Height for optimal ride and handling. Remember that loads carried behind the axle (including tongue loads) require more leveling force (pressure) than those carried directly over the axle.
2. **IMPORTANT:** For your safety and to prevent possible damage to your vehicle, **do not exceed maximum load recommended by the vehicle manufacturer.** Although your air springs are rated at a maximum inflation pressure of 100 p.s.i., the air pressure actually needed is dependent on your load and GVWR, which may be less than 100 p.s.i. Check your vehicle owner's manual or the manufacturer's specification plate usually found on the inside door jamb, and do not exceed maximum loads listed for your vehicle.
3. Always add air to air springs in small quantities, checking pressure frequently during inflation. Air springs require less air volume than a tire and inflate quickly.
4. Should it become necessary to raise the vehicle by the frame, make sure the system is at the minimum pressure (10 p.s.i.) to reduce the tension on suspension/brake components. **Use of on-board hydraulic leveling systems or routine tire changes DOES NOT require deflation or disconnection.**

## FINISHED INSTALLATION



Incorrect: Misaligned or under-inflated. Only OK during installation.



Correct: Sleeve is fully inflated and also properly aligned.

Figure 10

**MINIMUM AIR PRESSURE**  
**10 P.S.I.**

**MAXIMUM AIR PRESSURE**  
**100 P.S.I.**

**FAILURE TO MAINTAIN MINIMUM PRESSURE OR TO PREVENT BOTTOMING OUT AND/OR OVEREXTENSION WILL VOID THE WARRANTY**



***Thank you for purchasing Air Lift Products***

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**For Technical Assistance call 1-800-248-0892**

Technical Support  
1-800-248-0892  
Ext. 2



# Product Use Information

## Frequently asked questions

**Q. Will installing air springs increase the weight ratings of a vehicle?**

No. Adding air springs will not change the weight ratings (GAWR, GCWR and/or GVWR) of a vehicle. Exceeding the GVWR is dangerous and voids the Air Lift warranty.

**Q. Is it necessary to keep air in the air springs at all time and how much pressure will they need?**

The minimum air pressure should be maintained at all times. The minimum air pressure keeps the air spring in shape, ensuring that it will move throughout its travel without rubbing or wearing on itself.

**Q. Is it necessary to add a compressor system to the air springs?**

No. Air pressure can be adjusted with any type of compressor as long as it can produce sufficient pressure to service the springs. Even a bicycle tire pump can be used, but it's a lot of work.

**Q. How long should air springs last?**

If the air springs are properly installed and maintained they can last indefinitely.

**Q. Will raising the vehicle on a hoist for service work damage the air springs?**

No. The vehicle can be lifted on a hoist for short-term service work such as tire rotation or oil changes. However, if the vehicle will be on the hoist for a prolonged period of time, support the axle with jack stands in order to take the tension off of the air springs.

## Tuning the air pressure

Pressure determination comes down to three things — level vehicle, ride comfort, and stability.

**1. Level vehicle**

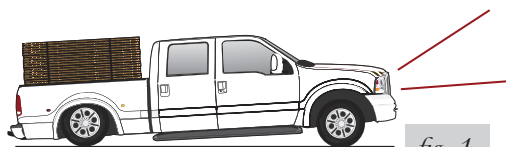
If the vehicle's headlights are shining into the trees or the vehicle is leaning to one side, then it is not level (fig. 1). Raise the air pressure to correct either of these problems and level the vehicle.

**2. Ride comfort**

If the vehicle has a rough and harsh ride it may be due to either too much pressure or not enough (fig. 2). Try different pressures to determine the best ride comfort.

**3. Stability**

Stability translates into safety and should be the priority, meaning the driver may need to sacrifice a perfectly level and comfortable ride. Stability issues include roll control, bounce, dive during braking and sponginess (fig. 3). Tuning out these problems usually requires an increase in pressure.



Bad headlight aim



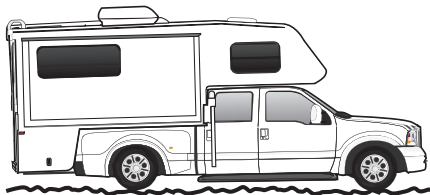
Sway and body roll



Rough ride

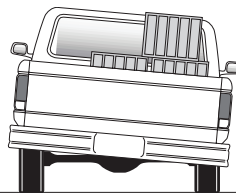
**Guidelines for adding air:**

1. Start with the vehicle level or slightly above.
2. When in doubt, always add air.
3. For motorhomes, start with 50-100 PSI in the rear because it can be safely assumed that it is heavily loaded.
4. If the front of the vehicle dives while braking, increase the pressure in the front air bags, if equipped.
5. If it is ever suspected that the air bags have bottomed out, increase the pressure (fig. 4).
6. Adjust the pressure up and down to find the best ride.
7. If the vehicle rocks and rolls, adjust the air pressure to reduce movement.
8. It may be necessary to maintain different pressures on each side of the vehicle. Loads such as water, fuel, and appliances will cause the vehicle to be heavier on one side (fig. 5). As much as a 50 PSI difference is not uncommon.

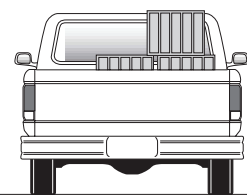


Bottoming out

fig. 4



Unlevel



Level

fig. 5

## Warranty and Returns Policy

Air Lift Company warrants its products, for the time periods listed below, to the original retail purchaser against manufacturing defects when used on catalog-listed applications on cars, vans, light trucks and motorhomes under normal operating conditions for as long as Air Lift manufactures the product. The warranty does not apply to products that have been improperly applied, improperly installed, used in racing or off-road applications, used for commercial purposes, or which have not been maintained in accordance with installation instructions furnished with all products. The consumer will be responsible for removing (labor charges) the defective product from the vehicle and returning it, transportation costs prepaid, to the dealer from which it was purchased or to Air Lift Company for verification.

Air Lift will repair or replace, at its option, defective products or components. A minimum \$10.00 shipping and handling charge will apply to all warranty claims. Before returning any defective product, you must call Air Lift at (800) 248-0892 in the U.S. and Canada (elsewhere, (517) 322-2144) for a Returned Materials Authorization (RMA) number. Returns to Air Lift can be sent to: Air Lift Company • 2727 Snow Road • Lansing, MI • 48917.

Product failures resulting from abnormal use or misuse are excluded from this warranty. The loss of use of the product, loss of time, inconvenience, commercial loss or consequential damages is not covered. The consumer is responsible for installation/reinstallation (labor charges) of the product. Air Lift Company reserves the right to change the design of any product without assuming any obligation to modify any product previously manufactured.

This warranty gives you specific legal rights and you may also have other rights that vary from state-to-state. Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of incidental or consequential damages. The above limitation or exclusion may not apply to you. There are no warranties, expressed or implied including any implied warranties of merchantability and fitness, which extend beyond this warranty period. There are no warranties that extend beyond the description on the face hereof. Seller disclaims the implied warranty of merchantability. (Dated proof of purchase required.)

<b>Air Lift 1000</b> .....	<b>Lifetime Limited</b>
<b>RideControl</b> .....	<b>Lifetime Limited</b>
<b>SlamAir</b> .....	<b>Lifetime Limited</b>
<b>LoadLifter 5000*</b> .....	<b>Lifetime Limited</b>
<b>EasyStreet Systems</b> .....	<b>1 Year Limited</b>

<b>Load Controller (I)</b> .....	<b>2 Year Limited</b>
<b>Load Controller (II)</b> .....	<b>2 Year Limited</b>
<b>SmartAir</b> .....	<b>2 Year Limited</b>
<b>Wireless AIR</b> .....	<b>2 Year Limited</b>
<b>Other Accessories</b> .....	<b>2 Year Limited</b>

*\*formerly SuperDuty*