

*Please read these instructions completely before proceeding with installation*

## I. Getting Started

1. Jack up rear of vehicle or raise on hoist. Support frame with safety stands. Remove lower shock absorber attaching bolts.
2. Lower axle or raise body or vehicle until suspension is fully extended. **CAUTION:** Observe tension on brake line - do not strain. Remove coil springs noting location of the end of the coil spring in the lower spring seat.

3. A 3/4" access hole must be made for the valve stem. Drill a 3/4" hole, or enlarge existing hole, in the center of the lower spring seat. Remove all burrs and sharp edges (Figure 2).

4. Landcruiser: Using a socket and extension, remove the rubber bump stop from the upper spring seat and discard (Figure 1).

NOTE: Jeep Liberty, Commander & Wrangler: Pull jounce bumper out of cup (Figure 1).

5. Insert air cylinder into coil spring with stem at bottom.

NOTE: Jeep Liberty & Wrangler: Insert spacers at the bottom between the cylinder and the bottom spring seat (Figure 3). Do not use spacer for Commander.

6. Raise the axle or lower the body to install coil spring into spring seats and rotate to proper location. Attach lower shock absorber attaching bolts. Torque to 25 ft. lbs.

7. Install air line as detailed on pages 2 and 3. A tee air line installation is recommended unless weight in vehicle varies from one side to the other and unequal pressures are needed to level load (or compensate for axle torque transfer in racing application). Dual air lines are used in this case. Proceed with tee air line routing or dual air line routing

8. Inflate cylinders to 25 lbs. air pressure. Test for air leaks by applying a liquid soap and water solution to all valve cores, fittings and connections.

9. Lower vehicle to the ground. Read Maintenance & Operation Tips for proper care of your air cylinders. Recheck air pressure after 24 hours. A 2-4 p.s.i. loss after initial installation is normal. If pressure has dropped more than 5 lbs. re-test for leaks with soapy water solution.

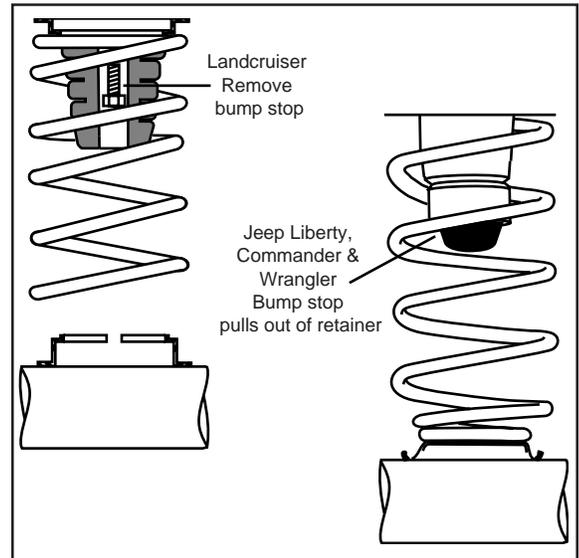


Figure 1

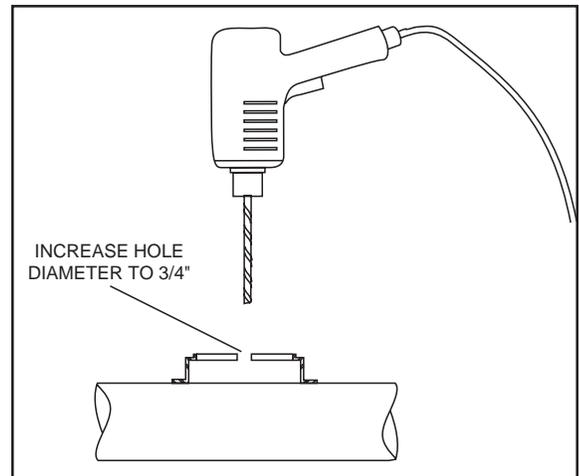


Figure 2

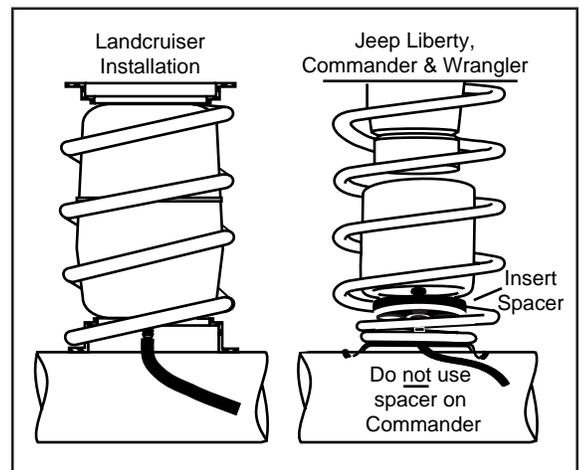
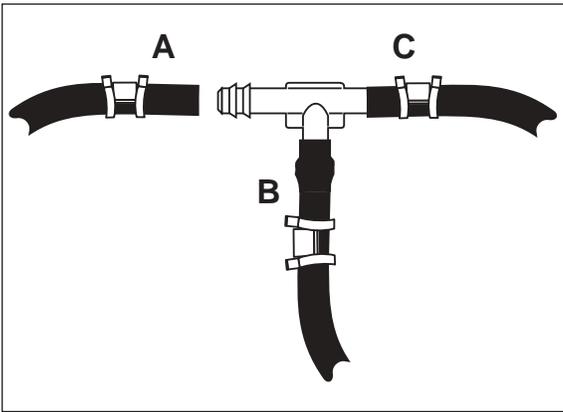


Figure 3



Use this procedure for all air line connections:  
 A. Slide the air clamp onto the air line.  
 B. Push the air line over the barbed stem.  
 C. Compress the ears on the air line clamp with pliers and slide it forward to fully cover the barbed section.

Figure 4

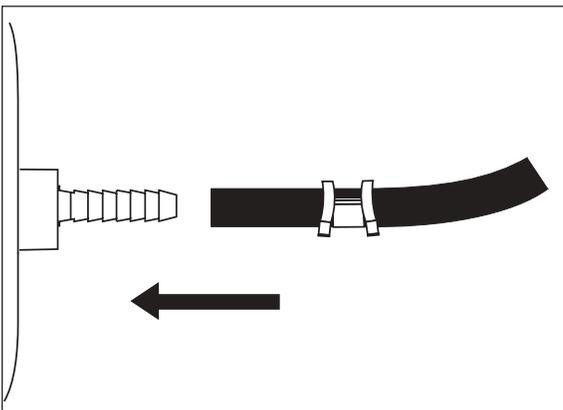


Figure 5

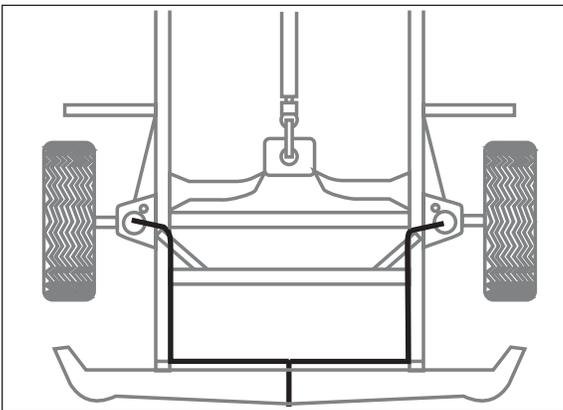


Figure 6

## II. Tee Air Line Routing

*Tee air line installation recommended unless weight in vehicle varies from one side to the other and unequal pressures are needed to level the load. Dual air lines are used in this case.*

**TO PREVENT AIR LINE FROM MELTING, KEEP IT AT LEAST EIGHT INCHES FROM EXHAUST SYSTEM.**

A. Locate desired tee location on the frame rail or cross member.

B. Determine and cut adequate length of air line to reach from tee to left and right side on air cylinders.

**CAUTION: LEAVE SUFFICIENT AIR LINE SLACK TO PREVENT ANY STRAIN ON FITTING DURING AXLE MOTIONS.**

C. Slide air line clamp onto the air line. Push the air line over one side of the tee until all the barbs are covered. Repeat procedure for other leg of tee.

D. With pliers slide the air line clamp forward until it fully covers the barbed section. Repeat for other leg of tee (Figure 4).

E. Route along cross member and either lower control arm or upper spring seat to air cylinder.

F. Insert air line through lower spring seat then slide on air line clamp.

G. Push the air line onto the stem, covering all the barbs. With pliers slide the air line clamp upward until it fully covers the barbed section (Figure 5).

H. Push the remaining air line over the last fitting on tee and route along frame to desired inflation valve location (Figure 6). Attach with plastic straps or wire.

I. Select a location for inflation valve in the gas cap well, the trunk, rear bumper, fender flange or behind the license plate, assuring that the valve will be protected and accessible with an air hose (Figure 6).

J. Drill a 5/16" hole for inflation valve and mount as in illustration (Figure 8). Rubber washer is for outside weather seal.

K. Slide air line clamp over the air line. Push air line onto fitting covering all barbs, with pliers slide the air line clamp forward until it fully covers the barbed section (Figure 6).

L. Raise axle or lower body until air cylinders lightly touch the upper and lower spring seat.

M. Check TAILPIPE clearance and insure that it is at least 2-3 inches from air cylinder. If necessary, loosen clamps and rotate or move to obtain additional clearance. If heat shield is provided, install it.

NOTE: Attach shock absorbers if removed earlier in the installation.

N. Continue with step 8, page 1.

### III. Dual Air Line Routing

*TO PREVENT AIR LINE FROM MELTING, KEEP IT AT LEAST EIGHT INCHES FROM EXHAUST SYSTEM.*

A. Select a location for the inflation valves in the rocker panel flange, or rear bumper, assuring that each valve will be protected and accessible with an air hose (Figure 9).

B. Determine and cut adequate length of air line to reach from valve location to left side air cylinder.

CAUTION: LEAVE SUFFICIENT AIR LINE SLACK TO PREVENT ANY STRAIN ON VALVE STEM DURING NORMAL AXLE MOTIONS.

C. Insert the air line through the lower spring seat.

D. Slide air line clamp onto the cut air line. Push the air line onto the stem, covering all the barbed section. With pliers slide the air line clamp forward until it fully covers barbed section (Figure 5).

E. Repeat process for right side.

F. Drill 5/16" hole for inflating valves and mount as illustrated. Rubber washer is for outside weather seal (Figure 8).

G. Route air line along control arm and frame to inflation valve location and cut off excess air line.

H. Slide air line clamp onto the air line and push the air line over the fitting, covering all the barbs. With pliers slide the air line clamp forward until it fully covers the barbed section.

I. Raise axle or lower body until air cylinders lightly touch the upper and lower spring seat.

J. Check TAILPIPE clearance and insure that it is at least 2-3 inches from air cylinders. If necessary, loosen clamps and rotate or move to obtain additional clearance. If heat shields are supplied, install them.

NOTE: Attach shock absorbers if removed earlier in the installation.

K. Continue with step 8, page 1.

DO NOT INFLATE AIR CYLINDERS BEFORE READING MAINTENANCE/OPERATION TIPS.

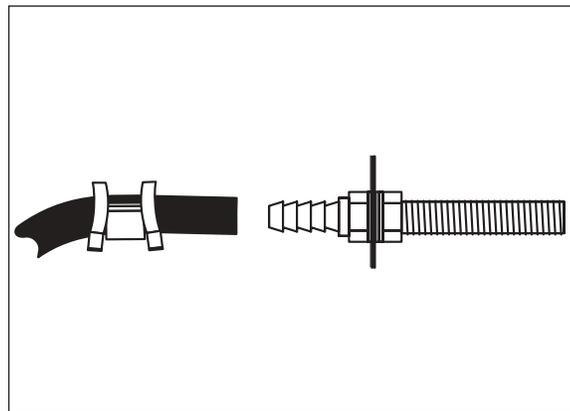


Figure 7

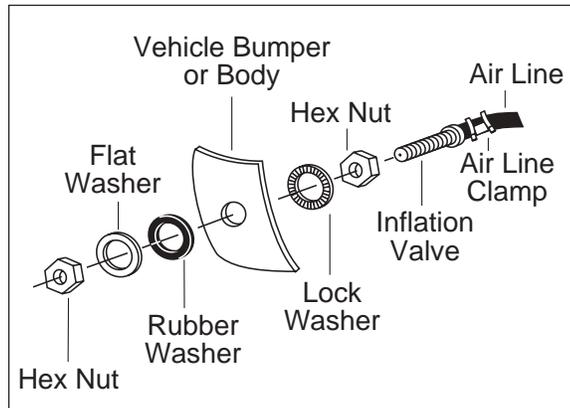


Figure 8

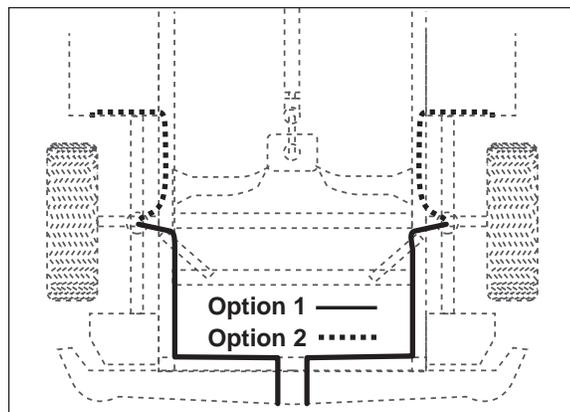


Figure 9

## IV. Maintenance and Operations

<b>Minimum Air Pressure</b>	<b>Maximum Air Pressure</b>
5 p.s.i.	35 p.s.i.
<i>Failure to maintain correct minimum pressure (or pressure proportional to load), bottoming out, over-extension, or rubbing against another component will void the warranty.</i>	

By following these steps, vehicle owners will obtain the longest life and best results from their air springs.

### Maintenance

1. Check the air pressure weekly.
2. Always maintain at least 5 p.s.i. air pressure to prevent chafing or coil pinch.
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 the cylinder.

### Operating Tips

1. Inflate your air springs to 35 p.s.i. before adding the payload. This will allow the air cylinder to properly mesh with the coil spring. After vehicle is loaded, adjust your air pressure (down) to level with the vehicle and for ride comfort.
2. When you are carrying a payload it will be helpful to increase the tire inflation pressure in proportion to any overload condition. We recommend a 2 p.s.i. increase above normal (not to exceed tire manufacturers maximum) for each 100 lbs. additional load on the axle.



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

Mailing Address:  
AIR LIFT COMPANY  
P.O. Box 80167  
Lansing, MI 48908-0167

Street Address:  
AIR LIFT COMPANY  
2727 Snow Rd.  
Lansing, MI 48917

Local Phone: (517) 322-2144  
Fax: (517) 322-0240

For Technical Assistance call 1-800-248-0892

***“The Choice of the Professional Installer”***

Printed in the USA