

1. Air cylinders are shipped in the “as molded” shape. For ease of installation, remove plastic cap from barbed stem on end of cylinder. Push on air cylinder to evacuate as much air as possible. It may be rolled up toward valve stem. Replace cap on stem to maintain flat shape.
2. Lower axle or raise body of vehicle until suspension is fully extended.
3. If necessary, additional clearance between the coil may be obtained by removing the shock absorbers from the lower shock mountings and lowering the suspension an additional one to two inches (Caution: Observe tension on brake air line - do not strain).
4. Insert flattened air cylinder into coil spring through lowest opening with stem at the top (Figure 1).
5. Push the cylinder up within the coil by hand or with a blunt instrument such as a spoon-type tire iron.
6. When the cylinder is completely within the coil, remove the cap and allow the cylinder to assume its “as molded” shape.
7. Push cylinder to the bottom of the coil and insert protector on top of air cylinder (Figure 2).
8. Determine air line routing. 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 applications). Dual air lines are used in this case. Proceed with air line instructions.

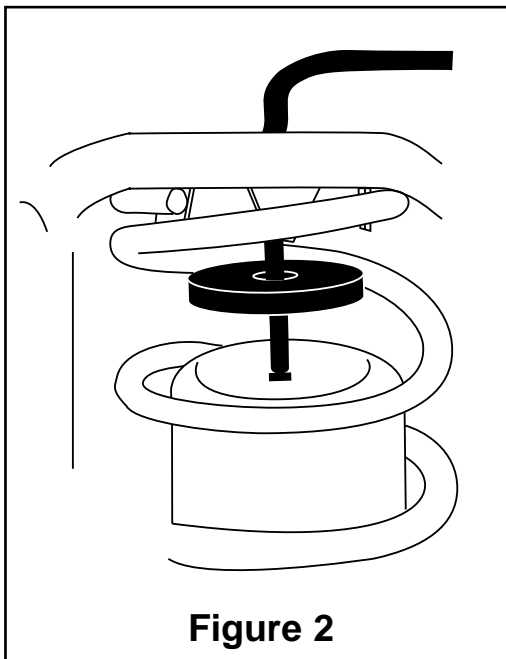
DO NOT INFLATE AIR CYLINDERS BEFORE READING MAINTENANCE/OPERATION TIPS.

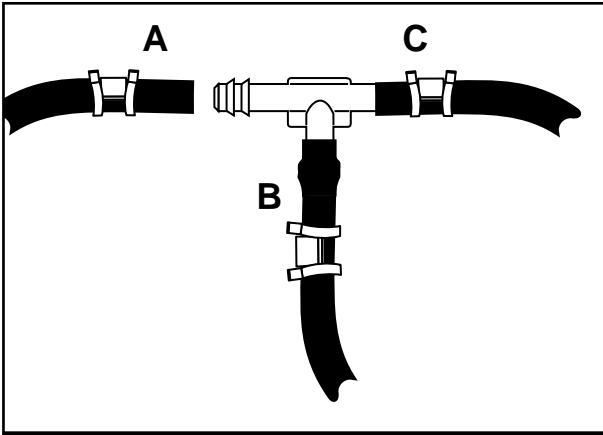
Tee air line installation recommended unless weight in vehicle varies from one side to the other and unequal pressures are needed to level the load. Dual air lines are used in this case.

TEE AIR LINE ROUTING

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.





Use this procedure for all air line connections:
A. Slide air line 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.

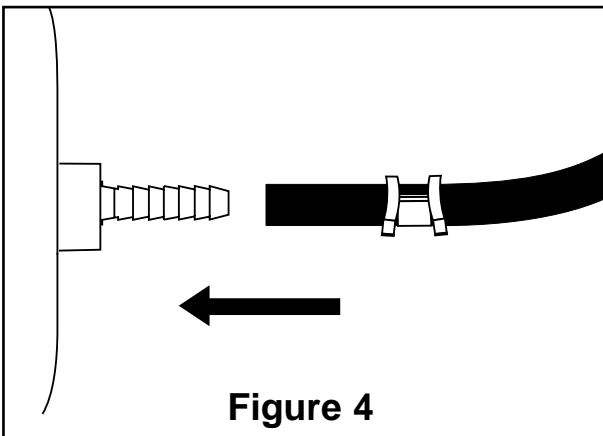


Figure 4

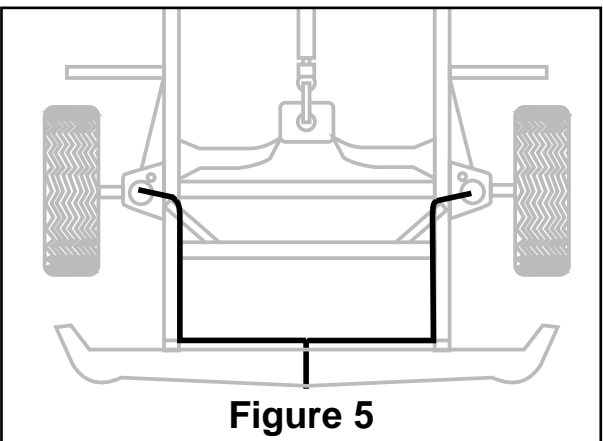


Figure 5

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 3).
- E. Route along cross member and either lower control arm or upper spring seat to air cylinder.
- F. Insert air line through spring seat and upper protector, 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 4).
- H. Push the remaining air line over the last fitting on tee and route along frame to desired inflation valve location (Figure 5). 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 5).
- J. Drill a 5/16" hole for inflation valve and mount as in illustration (Figure 7). 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 lower spring seat and upper protectors.
- 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.

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

DUAL AIR LINE ROUTING

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

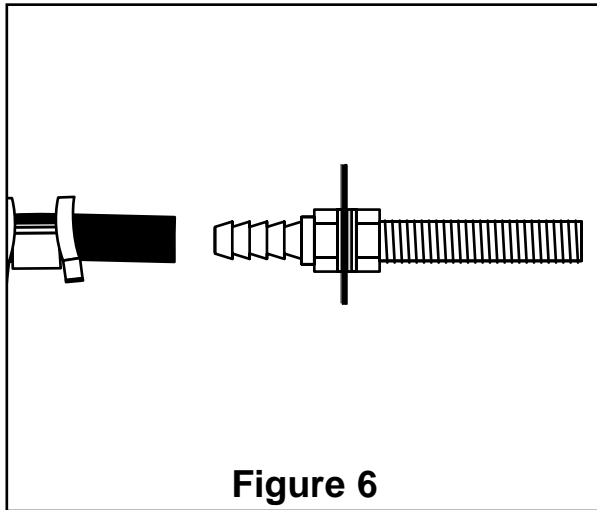


Figure 6

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 8).

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 spring seat and upper protectors.

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 4).

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 7).

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 lower spring seat and upper protectors.

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.

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

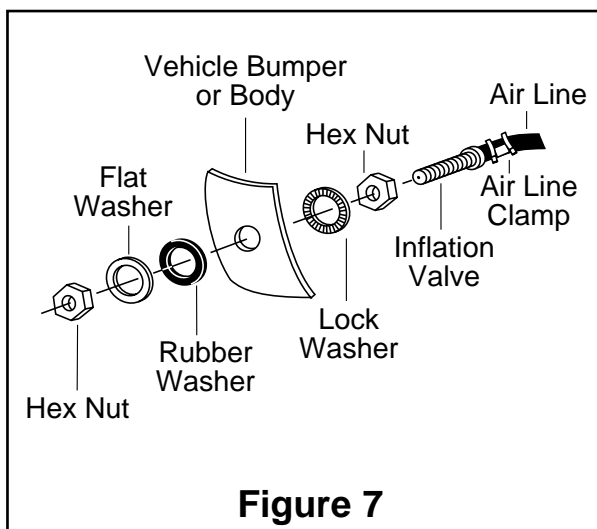


Figure 7

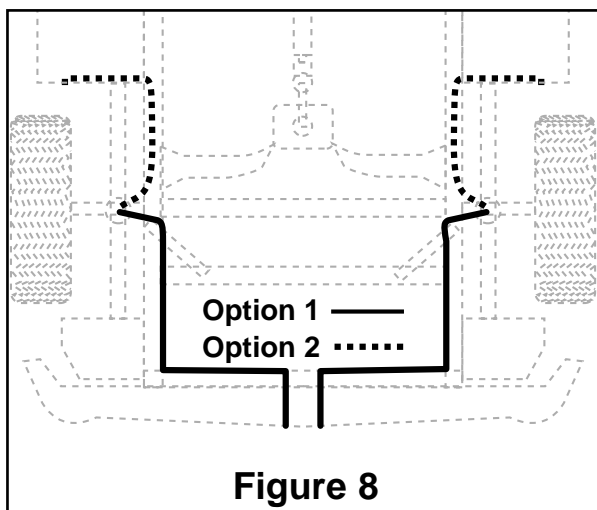


Figure 8

FAILURE TO MAINTAIN MINIMUM PRESSURE WILL VOID THE WARRANTY

MINIMUM AIR PRESSURE 5 P.S.I.	MAXIMUM AIR PRESSURE 25 P.S.I.
<p>MAINTENANCE TIPS:</p> <ol style="list-style-type: none">1. Check 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 valve core before removing cylinder. <p>OPERATING TIPS:</p> <ol style="list-style-type: none">1. Inflate your air springs to 25 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 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.	
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