

Kit No. 60727

*Please read these instructions completely before proceeding with the installation.*

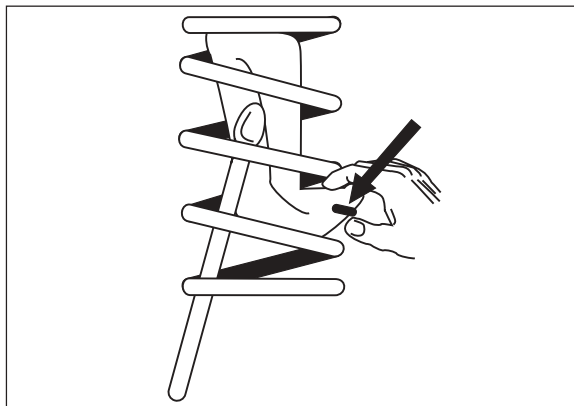


Figure 1

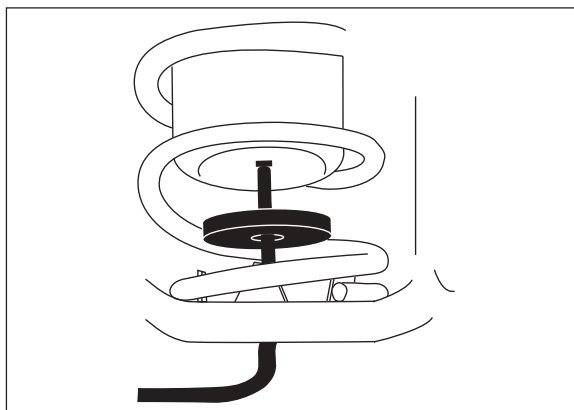
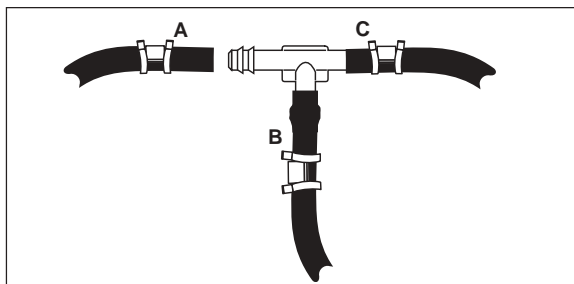


Figure 2



Use this procedure for all air line connections:  
A. Slide air line clamp onto the air line.  
B. Push 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 3

## I. Preparing the Vehicle

1. Jack up rear of vehicle or raise on hoist. Support frame with safety stands and remove rear tires.
2. Mark the spring and spring seat with a marker.
3. With a jack supporting the lower control arm, remove the lower shock bolt.

*NOTE: If equipped with a sway bar, disconnect it from the lower control arm.*

4. Drop the lower control arm down with the jack low enough to remove the coil spring.

*CAUTION: Observe the tension on any brake or electrical lines. Do not strain.*

5. **Saturn Vue and Chevy Equinox only:** Remove the jounce bumper assembly from the bottom of the lower control arm and discard.
6. Drill out or enlarge the hole in the A-arm to  $\frac{3}{4}$ " in diameter.
7. Insert the air cylinder into the coil spring with the stem pointing down (Figure 1).
8. Install the spring back into the suspension. Attach the sway bar and shock bolt and tighten securely. Push the cylinder to the top of the coil spring.
9. With the suspension hanging, insert the protector between the bottom of the cylinder and the lower control arm (Figure 2).

## III. Installing the Air Lines

*Air tee line installation is recommended unless weight in vehicle varies from one side to the other and unequal pressures are needed to level the load (or compensate for axle torque transfer in racing applications). Use dual air lines if this is the case.*

*CAUTION: To prevent air line from melting, keep it at least 8" from exhaust system.*

### TEE AIR LINE ROUTING

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

2. Slide air line clamp onto the air line.
3. Push the air line over one side of the tee until all the barbs are covered. With a pair of pliers, slide the air line clamp forward until it fully covers the barbed section. Repeat entire procedure for other leg of tee (Figure 3).

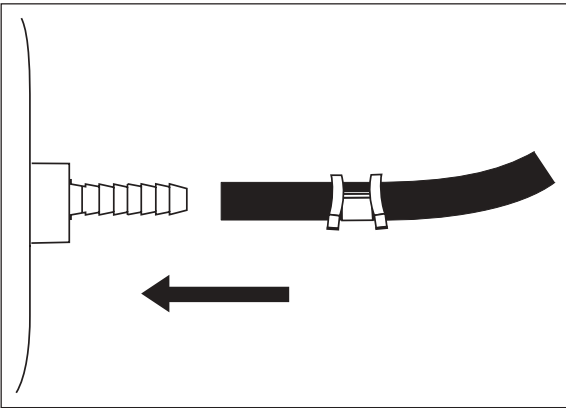


Figure 4

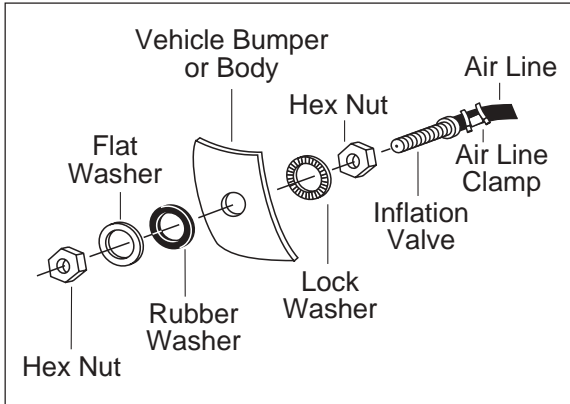


Figure 5

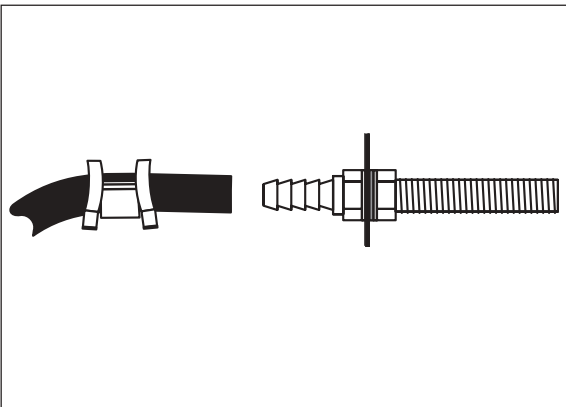


Figure 6

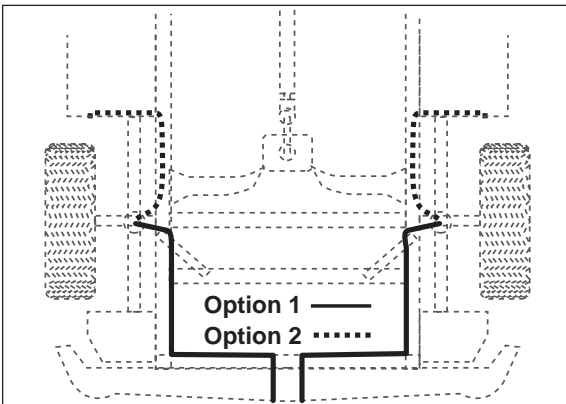


Figure 7

4. Route along cross member and either lower control arm or upper spring seat to air cylinder.
  5. Insert air line through spring seat and spacers.
  6. Push the air line onto the stem, covering all the barbs (Figure 4). With the pliers, slide the air line clamp upward until it fully covers the barbed section.
  7. Push the remaining air line over the last fitting on tee and route along frame to desired inflation valve location (Figure 4). Attach with plastic straps or wire.
  8. Select a location for inflation valve in the gas cap well, the trunk, rear bumper, fender flange or behind license plate, insuring that the valve will be protected and accessible with an air hose.
  9. Drill  $\frac{5}{16}$  " hole for inflation valve and mount as in illustration (Figure 5). Rubber washer is for outside weather seal.
  10. 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).
  11. Raise axle or lower body until air cylinders lightly touch upper spring seat and lower spacers.
  12. Check tail pipe 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. Attach shock absorbers if removed earlier in the installation.
- CAUTION: Do not inflate air cylinders before reading the Maintenance and Operation section.*
13. Continue on with Section IV, Completing the Installation.

### **DUAL AIR LINE ROUTING**

*CAUTION: To prevent air line from melting, keep it at least 8" from exhaust system.*

1. 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 7).
  2. 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 fitting during axle motions.*
3. Insert the air line through the spring seat and spacer.
  4. Slide air clamp onto the cut air line.
  5. Push the air line onto the stem, covering all the barbed section (Figure 4). With pliers slide the air line clamp forward until it fully covers barbed section.
  6. Repeat process for right side.
  7. Drill  $\frac{5}{16}$  " hole for inflating valves and mount as illustrated. Rubber washer is for outside weather seal (Figure 5).
  8. Route air line along control arm and frame to inflation valve

location and cut off excess.

- Slide a 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 (Figure 6).
- Raise axle or lower body until air cylinders lightly touch upper spring seat and lower spacers.
- Check tail pipe 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. Attach shock absorbers if removed earlier in the installation.

#### IV. Completing the Installation

*CAUTION: Do not inflate air cylinders before reading the Maintenance and Operation section below.*

- Inflate cylinders to 35 lbs air pressure. Test for air leaks by applying a liquid solution of  $\frac{1}{5}$  dish soap to  $\frac{4}{5}$  water to all valve cores, fittings and connections.
- Lower vehicle to the ground. Read Maintenance and Operation section 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. retest for leaks with a soapy/water solution.

#### V. Maintenance and Operation

- Check the air pressure in the air springs weekly.
- Always maintain at least the 5 p.s.i. air pressure to prevent chafing or coil pinch.
- If you develop a leak in the system, use a soapy/water solution to check all air line connections and the valve core before removing the cylinder.
- 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 the vehicle and for ride comfort.
- 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.

*CAUTION: Do not exceed the vehicle manufacturers maximum gross vehicle weight rating.*

Minimum Air Pressure	Maximum Air Pressure
5 p.s.i.	35 p.s.i.

***Failure to maintain minimum pressure will void the warranty.***



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