

POLYAIR SPRINGS

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INSTALLATION INSTRUCTIONS

11991 / 9809

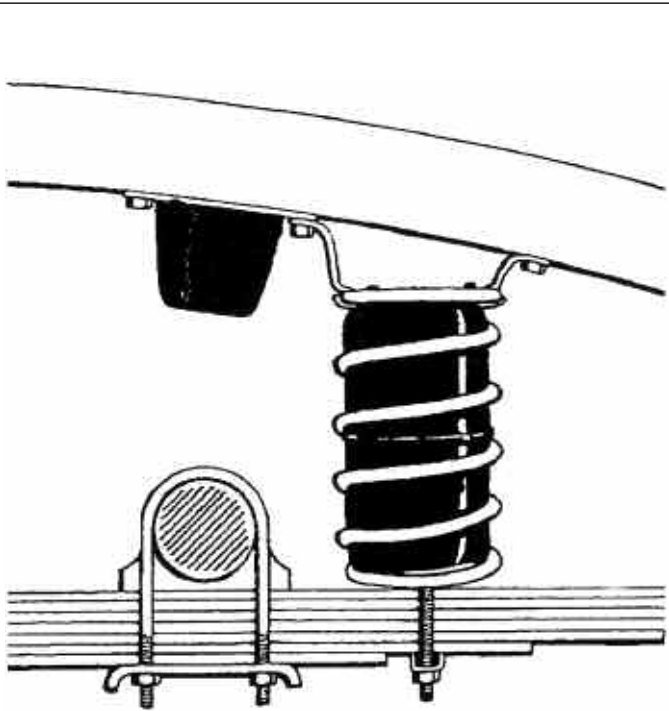


FIGURE 1

Option 1 ———
Option 2 - - - - -

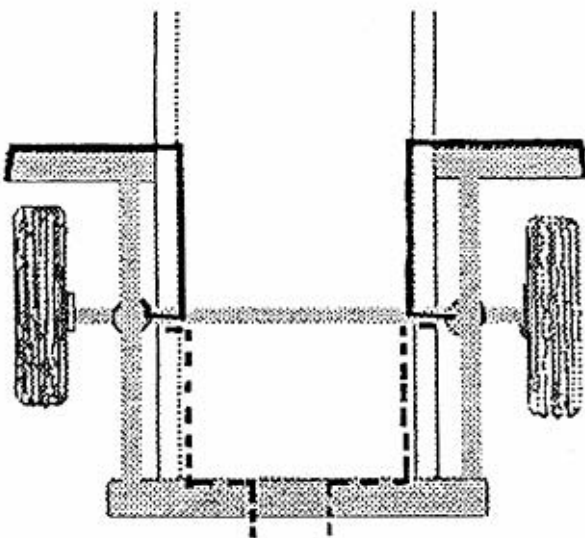


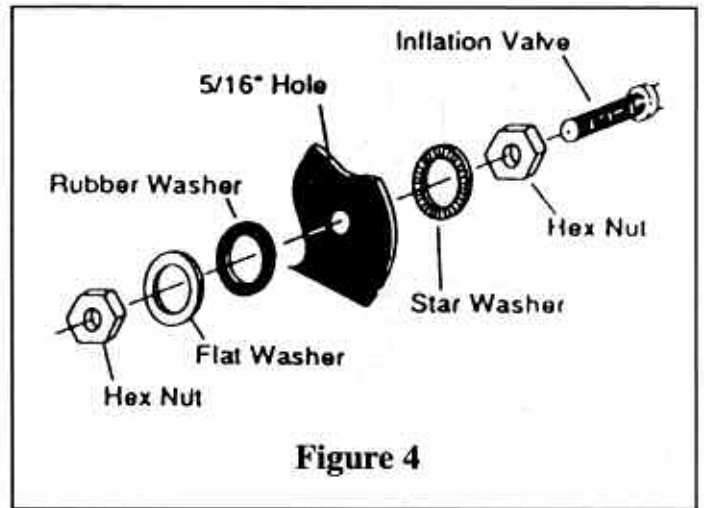
FIGURE 2

1. Carefully lower rear axle or raise body of vehicle until rear wheels can be removed.
2. Remove wheels and place jack stands under frame for safety.
3. Remove front bound bumper bracket bolt and set aside.
4. Place Polyair assembly on leaf spring about one inch forward from the axle.
5. Position assembly so that the rear hole of the Polyair kit upper bracket aligns with the front bolt in the upper bound upper bracket to the frame.
6. Using previously removed bound bumper bolt, secure the Polyair upper bracket and the bound bumper bracket to the frame.
7. Align Polyair upper bracket with the frame. Using centre hole in bracket tab as a template, drill a 1/4 inch hole in frame.
8. Using bolt provided in Polyair kit, secure front portion of Polyair upper bracket to the frame.
9. Guide retaining bolts around leaf spring and fit the retaining bar to the bolts.
10. Fit the provided "lock" nuts to the retaining bolts and tighten, thus securing the assembly.
11. Reposition emergency brake cable forward to leaf spring and secure with nylon straps by looping straps around cable and leaf with smooth surface outside, serrated surface inside.
12. Select a location for the inflation valve in the rocker panel flange or rear floor pan ensuring that each valve will be protected and accessible with an air hose. (Figure 2).
13. Determine and cut adequate length of tubing to reach from valve location to left side Air Spring. (Figure 2).

CAUTION:

LEAVE SUFFICIENT HOSE SLACK TO PREVENT ANY STRAIN ON VALVE STEM DURING NORMAL AXLE MOTION.

- A. Slide metal hose clamp onto cut tubing.
- B. Push the tube onto the stem, covering all the barbs.
- C. Slide the metal hose clamp forward until it fully covers barbed section.
Repeat process for right side.
- D. Drill 5/16" (8.0mm) hole for inflation valves and mount as illustrated. (Rubber washer for outside weather seal.)
Route tubing along frame to inflation valve location and cut off excess. Secure with plastic straps.
- E. Slide metal hose clamp onto tubing and push tubing onto the fitting, covering all the barbs.
- F. Slide the metal hose clamp forward until it fully covers the barbed section.



DO NOT INFLATE AIR CYLINDERS BEFORE READING INFLATION PROCEDURES.

- G. Raise axle or lower body until air cylinders lightly touch upper and lower spring seats.
- H. Check TAIL PIPE clearance and ensure that it is as least 3-4 inches (75-100 mm) from air cylinders. If necessary, loosen clamps and rotate or move to obtain additional clearance.
- I. Inflate cylinders to 25lbs. (170kpa) air pressure.
- J. Test for air leaks by applying a liquid soap solution to all valve cores, fittings and connections.
- K. Deflate Polyair Springs to determine best ride and handling. Sufficient air pressure must be maintained to help prevent bottoming-out.

AN ABSOLUTE MINIMUM OF 5 psi MUST BE KEPT AT ALL TIMES.

**CAUTION:
DO NOT EXCEED VEHICLE
MANUFACTURER'S GROSS
VEHICLE WEIGHT RATING.**

INITIAL INFLATION PROCEDURES

*** CAUTION •**

INFLATE BEFORE LOADING

TO OPERATE THE AIR SPRING UNITS, INFLATE THE CYLINDERS TO THE PRESSURE INDICATED BELOW.
LOAD THE VEHICLE THEN DECREASE THE PRESSURE UNTIL THE VEHICLE IS LEVEL. DO NOT ATTEMPT TO RAISE A LOADED VEHICLE BY INFLATING THE AIR SPRINGS IF LOADED.
"JACK" UP BODY OF VEHICLE UNTIL LEVEL. AND THEN INFLATE TO THE DESIRED PRESSURE.

MINIMUM	MAXIMUM
PRESSURE	PRESSURE
5 p.s.i.	30 p.s.i.

MAINTENANCE TIPS: Always maintain at least 5 lbs (38 kpa) air pressure in the Air Springs to prevent chafing. When loading it is good practice to increase the inflation pressure of the tyres in proportion to the load being carried.