



POLYAIR INSTALLATION INSTRUCTIONS CORTEZ MOTOR HOME

MN-99
(02006)

1. Loosen rear wheel lug nuts.
2. Raise vehicle. Place a safety stand at frame corner ahead of tire.
3. Remove rear wheels.
4. Place floor jack under suspension control arm.
5. Loosen shock absorber lower mounting bolt.
6. Raise lower control arm, slowly so that shock absorber bolt can be removed.
7. Loosen and remove lower retaining nut on cable assembly (if vehicle is so equipped).
8. Slowly lower control arm, until coil spring can be removed.
9. Using template provided, drill 1/2" diameter hole in lower spring seat.
10. Remove valve core from air cylinder allowing the cylinder to take it's "as molded" shape.
11. Insert air cylinder into coil spring, and upper styrofoam protector.
12. Remove coil spring retaining cable from upper spring seat (if vehicle is so equipped). Save cable if desired. DO NOT REINSTALL.
13. Place coil/air spring assembly back to original position.
14. Slowly raise lower control arm to properly align coil/air spring assembly. STOP WHEN ALIGNMENT IS CORRECT.
15. Install lower protector and guide valve stem into position.
16. Continue slowly raising the suspension control arm until shock absorber lower mount is into position.
17. Replace lower shock bolt and nut. Tighten to specifications.
18. See Hosing Route Suggestion, on other side.
19. With floor jack still in position at suspension control arm, replace rear wheel.
20. Raise suspension control arm until upper and lower spring seats come into contact with air cylinder.
21. Inflate air cylinders to 40 p.s.i., and check for leaks using a soapy solution.
22. Reduce air pressure to desired amount.
23. Lower vehicle to ground. Read Maintenance /Operation section for proper care of your Air Lift air cylinders.

POLYAIR TEE & DUAL HOSE INSTALLATION

Tools Required: Pliers, 5/16" Wrench

NOTE: Please see page 4 for the suggested Cortez Hose Mounting. Use pages 2 and 3 as a general guide for the installation and routing.

"T" Hose installation recommended unless weight in vehicle varies from one side to the other and unequal pressures are needed to level the load. Dual hoses are used in this case.

TEE HOSE ROUTING

- A. Locate desired "tee" location on the frame rail or cross member.
- B. Determine and cut adequate length of tubing to reach from tee to left and right side on air cylinders.

CAUTION: LEAVE SUFFICIENT HOSE SLACK TO PREVENT ANY STRAIN ON FITTINGS DURING AXLE MOTIONS.

- C. Slide a hose clamp onto the tubing.
- D. Push the tubing over one side of the "tee" until all the barbs are covered. Repeat procedure for other leg of tee (Figure 1).
- E. With pliers slide the hose clamp forward until it fully covers the barbed section. Repeat for the other leg of tee (Figure 1).
- F. Route tubing along cross member and either lower control arm or upper spring seat to left and right air cylinder.
- G. Insert tubing through spring seat, spacer and slide on a hose clamp.
- H. Push the tubing onto the stem, covering all the barbs (Figure 2).
- I. With pliers slide the hose clamp upward until it fully covers the barbed section.
- J. Push the remaining tubing over the last fitting on tee and route along frame to desired inflation valve location. Attach with plastic straps or wire.

TO PREVENT TUBING FROM MELTING, KEEP IT AT LEAST TWELVE INCHES FROM EXHAUST SYSTEM.

- K. Select a location for inflation valve in the trunk, rear bumper, fender flange or behind the license plate, insuring that the valve will be protected and accessible with air hose (Figure 3 & 5).
- L. Drill a 5/16" hole for inflation valve and mount as in illustration (Rubber washer is for outside weather seal).
- M. Slide a hose clamp over hose. Push tubing onto fitting covering all barbs. With pliers slide the hose clamp forward until it fully covers the barbed section (Figure 4).
- N. Raise axle or lower body until air cylinders lightly touch upper spring seat and lower spacers.

HOSE KIT PARTS LIST		
Quantity	PART #	Description
4 ea.	10466	Nylon Strap
2 ea.	18405	Flat Washers
2 ea.	18411	5/16 Star Washer
15 ft	20937	Air Hose
2 ea.	21230	Valve Cap
4 ea.	21233	Hex Nut
2 ea.	21234	Rubber Washer
1 ea.	21236	Barbed Tee
2 ea.	21478	Valve W/Core
6 ea.	10638	Hose Clamp

- O. Check TAILPIPE clearance and insure that it is at least 3-4 inches from air cylinder. If necessary, loosen clamps and rotate or move to obtain additional clearance.

Attach shock absorbers if removed earlier in the installation.

DO NOT INFLATE AIR CYLINDERS BEFORE READING AIR CYLINDERS INFLATION PROCEDURES.

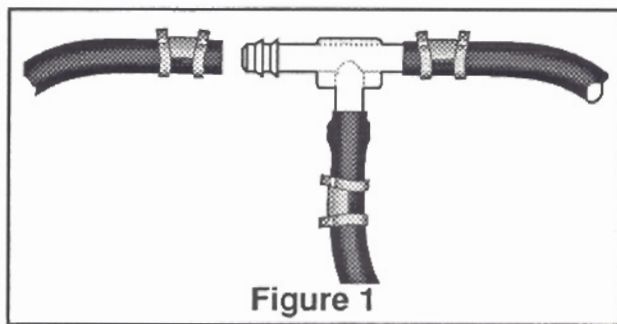


Figure 1

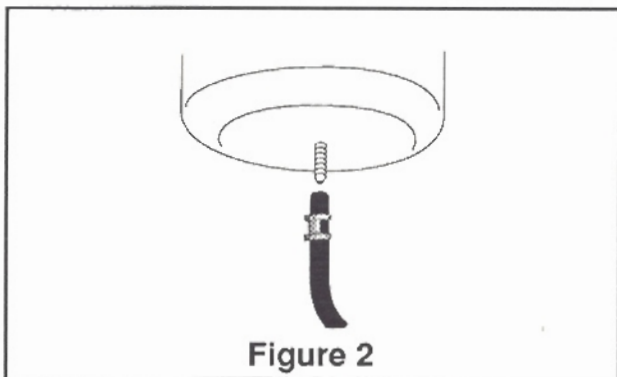


Figure 2

DUAL HOSE ROUTING

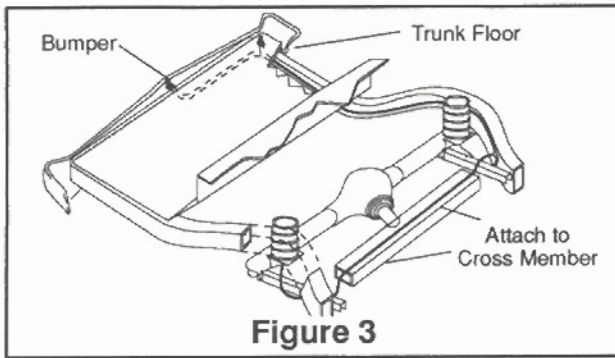


Figure 3

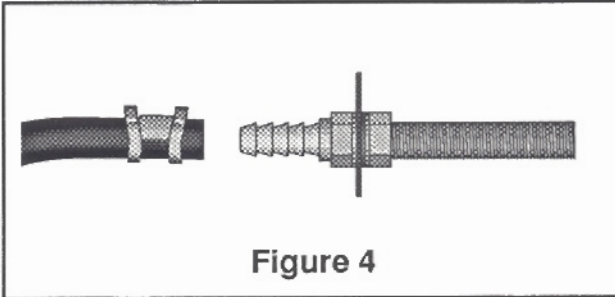


Figure 4

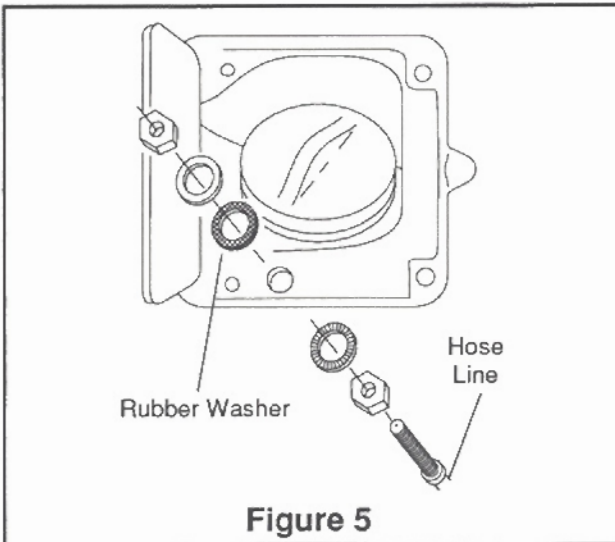


Figure 5

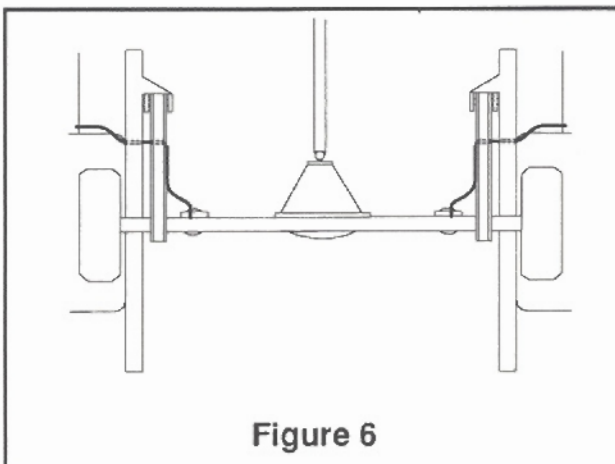


Figure 6

A. Select a location for the inflation valves in the rocker panel flange or rear floor pan insuring that each valve will be protected and accessible with an air hose (Figure 6).

B. Determine and cut adequate length, not longer than 90" of tubing to reach from valve location to left side air cylinder.

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

C. Insert the tubing through the spring seat and spacer.

D. Slide a hose clamp onto the cut tubing.

E. Push the tube onto the stem, covering all the barbs.

F. With pliers slide the hose clamp forward until it fully covers barbed section (Figure 4).

G. Repeat process for right side.

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

I. Route tubing along control arm and frame to inflation valve location and cut off excess.

J. Slide a hose clamp on tubing and push tubing onto the fitting, covering all the barbs.

K. With pliers slide the hose clamp forward until it fully covers the barbed section.

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

M. Check TAILPIPE clearance and insure that it is at least 3-4 inches from air cylinders, If necessary, loosen clamps and rotate or move to obtain additional clearance.

Attach shock absorbers if removed earlier in the installation.

SUGGESTED CORTEZ HOSE MOUNTING

1. Connect hose coupling to valve stem of air cylinder. Tighten securely, using 3/8" open-end wrench. Attach hose.
2. Route hose forward to lower control arm pivot tube.
3. Route hose through pivot tube outward to wheelhouse opening.
4. Drill 5/16" hole at lower edge of side panel, at front of wheelhouse opening.
5. Assemble valve assembly and install in hole. See attached illustration.
6. Cut hose to desired length and connect to valve assembly.
7. Insert valve core, previously removed from air cylinders into valve assembly.

MAINTENANCE/OPERATION

MINIMUM AIR PRESSURE
10 PSI

MAXIMUM AIR PRESSURE
40 PSI

MAINTENANCE TIPS:

1. Check pressure monthly!
2. Always maintain at least 10 psi air pressure to prevent chafing or coil pinch.
3. If you develop an air leak in the system, use a soapy solution to check all hose connections and the valve core before removing cylinder.

OPERATING TIPS:

1. Inflate you air springs to 40 psi 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 psi increase above normal (not to exceed tire manufacturer's maximum) for each 100 lbs. total overload on the axle.

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

Template T-12424

