

# AIRLIFT 1000

P/N 80523



MN-75  
(12612)  
ECR 8167

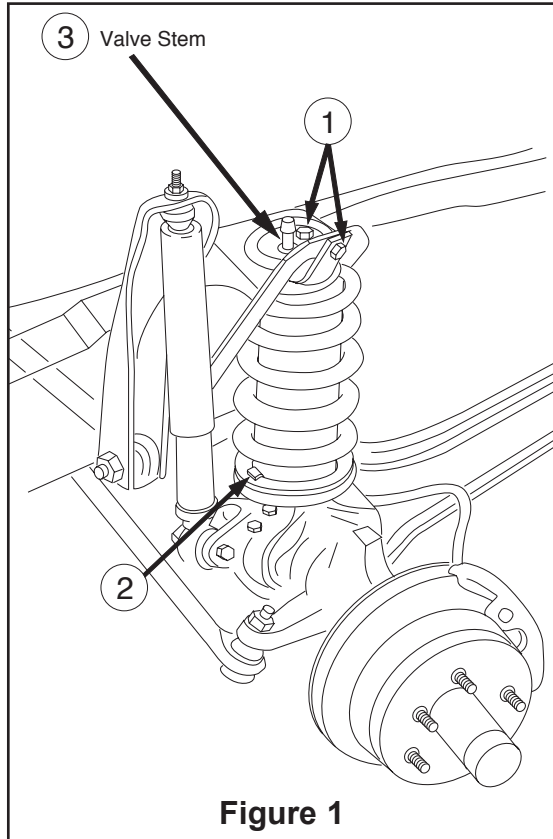


Figure 1

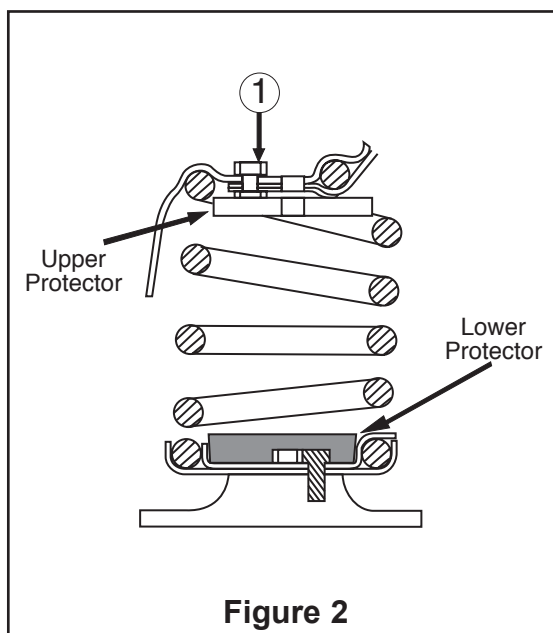
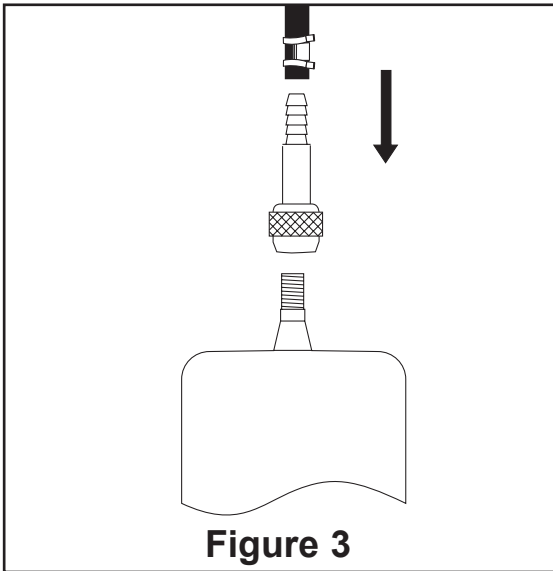


Figure 2

1. Jack up front end of vehicle and place safety stands under axle. Remove front wheels and lower shock absorber attaching bolts.
2. Remove the upper spring retaining bolts (Figure 1, Item 1) and strap. Lower axle or raise body until the spring is loose in the upper seat. CAUTION: Do not strain flexible hydraulic brake line. Remove brake line bracket attaching bolt on axle if necessary.
3. Rotate coil spring in lower spring seat beyond locking tabs to allow spring removal (Figure 1, Item 2). On some models, it may be necessary to loosen lower spring seat retaining bolts.
4. A template is provided to locate a hole in the upper spring seat for valve stem access. The same template is used for both left and right sides. Fold template along dotted line. Place under right hand upper spring seat with type facing downward, right hand arrow forward.
5. Place 3/8" capscrew in template and through outer retaining strap hole. Insert another 3/8" capscrew in one of the inner holes that align with the inner retaining strap hole in the spring seat.  
Hole "A" is used on 1973 and up.  
Hole "B" is used on 1966 - 1972.
6. Center punch and drill a 1/2" hole at forward star marked R.H.S. Repeat this procedure for left hand side using other star location.
7. Insert air cylinder, stem up, into bottom of coil spring. Push cylinder completely to the top.
8. Replace coil spring in lower spring seat, insuring that it is under the retaining tab (Figure 1, Item 2).
9. Install the upper protector with the offset, smaller hole over the valve stem and centered on the cylinder (Figure 2).
10. Raise axle or lower body to position coil spring into upper spring seat (Figure 2).
11. Install the upper coil retaining strap. Replace the inner 1" long bolt from the upper coil retaining strap with the 3/4" long bolt provided in the package (Figure 2, Item 1).
12. Tighten lower spring seat retaining bolts to specifications if loosened in step 3.
13. Insert lower protector between turns of the coil spring and push firmly into lower spring seat (Figure 2).
14. Rotate cylinder to align valve stem with drilled hole in upper seat.



15. Slowly lower body or raise axle until cylinder contacts upper and lower spring seats. Care should be taken to guide valve stem in the proper location (Figure 1, Item 3).

16. Replace lower shock absorber attaching bolts and tighten.

17. Determine air line routing. A tee air line installation can be used unless weight of vehicle varies from one side to the other and unequal pressures are needed to correct suspension alignment and level vehicle. Dual air lines are used in this case. **CAUTION:** Avoid areas which may cause failure of the air line. For example: battery, exhaust, engine, radiator, and moving parts such as steering, suspension and cables.

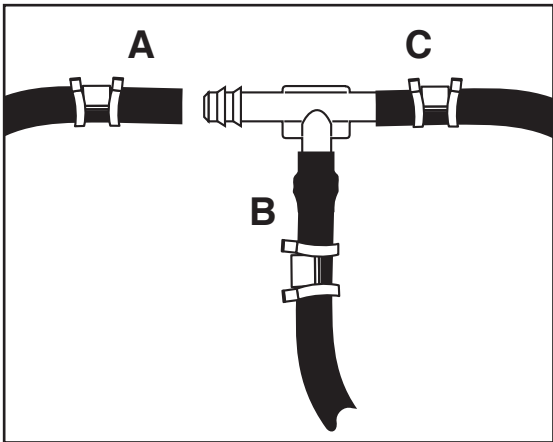
18. Proceed with desired air line routing (Tee or Dual).

### AIR LINE INSTRUCTIONS

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

**TO PREVENT AIR LINE FROM MELTING, KEEP IT AT LEAST TWELVE INCHES FROM EXHAUST SYSTEM, ENGINE AND HEAT SOURCES. CAUTION: AVOID AREAS WHICH MAY CAUSE FAILURE OF THE AIR LINE. FOR EXAMPLE: BATTERY, EXHAUST, ENGINE, RADIATOR, AND MOVING PARTS SUCH AS STEERING, SUSPENSION AND CABLES.**

### TEE AIR LINE CONNECTION:



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.

A. Find desired tee location on the frame rail or radiator core support bracket (Figure 5).

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

C. Connect the air line to the two opposite legs on the tee (Figure 4).

D. Route air line to left and right air springs, generally along inner fender panel or frame rails (Figure 5).

E. Slide air line clamp onto the air line. Push the air line over the barbed end of straight fitting. Compress the ears on the air line clamp with pliers and slide it down to cover the barbed section (Figure 4). Repeat for other side.

F. Connect the straight fitting to the right & left air springs and tighten securely (Figure 3).

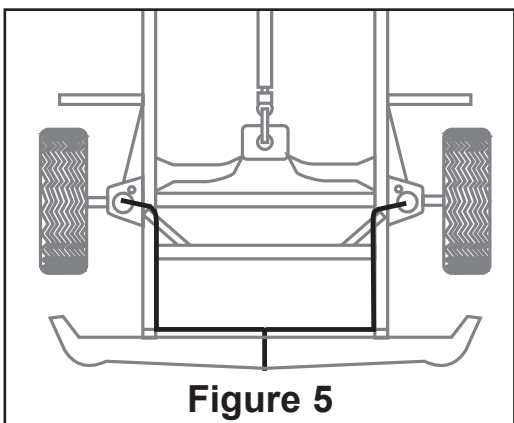
G. Select a location for inflation valve in the hood release, front bumper, fender flange or behind the license plate, assuring that the valve will be protected and accessible with an air hose.

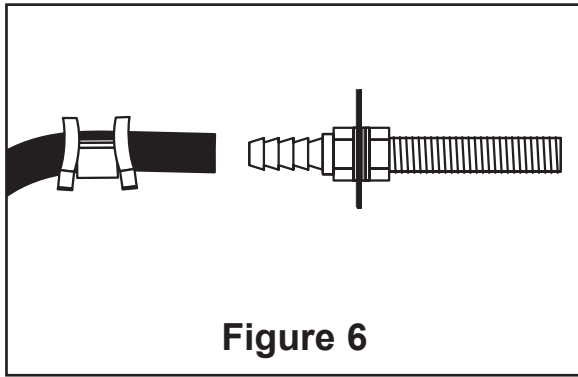
H. Connect the remaining air line over the last fitting on tee and route along frame to desired inflation valve location. Attach air line to chassis with plastic straps or wire.

I. Drill a 5/16" hole for inflation valve and mount as illustrated (Rubber washer is for outside weather seal (Figure 7).

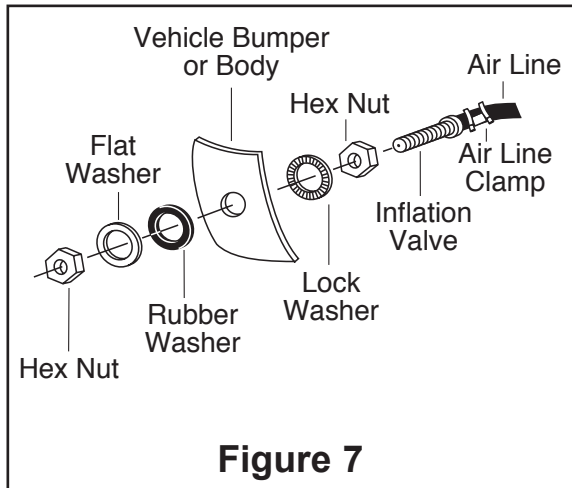
J. Connect the air line to the inflation valve (Figure 6).

K. Continue with step 19, page 3.

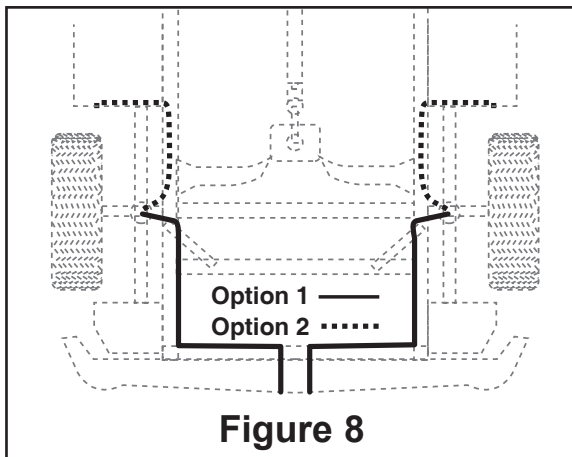




**Figure 6**



**Figure 7**



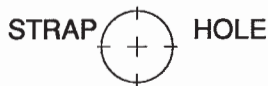
**Figure 8**

**DUAL AIR LINE CONNECTION:**

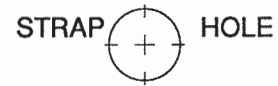
- A. Select a location for the inflation valves in the rocker panel flange or by hood release assuring that each valve will be protected and accessible with an air line.
  - B. Determine and cut adequate length, not longer than 90" of air line to reach from valve location to left side air cylinder.
  - C. Slide air line clamp onto the air line. Push the air line over the barbed end of straight fitting. Compress the ears on the air line clamp with pliers and slide it down to cover the barbed section (Figure 4). Repeat for other side.
  - D. Connect the straight fitting to the right & left air springs and tighten securely (Figure 3).
  - E. Route air line along frame or under fender panel to desired inflation valve location (Figure 8). Attach air line to chassis with plastic straps or wire.
  - F. Drill 5/16" hole for inflating valves and mount as illustrated (Rubber washer is for outside weather seal, Figure 7).
  - G. Connect the air line to the inflation valve.
  - H. Repeat process for other side.
  - I. Continue below with step 19.
19. Replace front wheels and return vehicle to normal standing height.
  20. Inflate cylinders to 50 psi air pressure. Test for air leaks by applying a liquid soap and water solution to all valve cores, fittings and connections. Adjust pressure down until vehicle is visually level and for best ride comfort.
  21. Recheck air pressure after 24 hours. A 2-4 psi loss after initial installation is normal. If pressure has dropped more than 5 lbs re-test for leaks with a soapy water solution.
- \* Read Maintenance/Operation for proper care of your air cylinders on page 4.



USE 3/8 CAP SCREW TO ALIGN  
TEMPLATE ON RETAINING



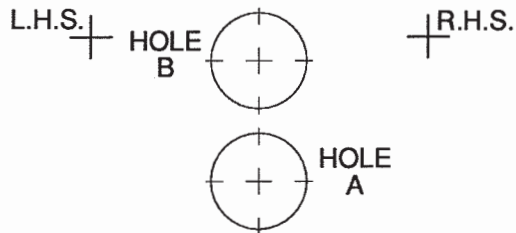
USE 3/8 CAP SCREW TO ALIGN  
TEMPLATE ON RETAINING



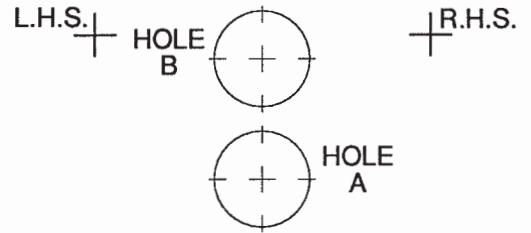
FOLD AWAY APPROX. 30°  
ALONG THIS LINE

FOLD AWAY APPROX. 30°  
ALONG THIS LINE

CENTER PUNCH FORWARD STAR  
IN EACH SPRING SEAT  
DRILL 1/2" DIA. HOLE



CENTER PUNCH FORWARD STAR  
IN EACH SPRING SEAT  
DRILL 1/2" DIA. HOLE



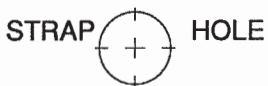
POSITION TEMPLATE ON APPROPRIATE EXISTING  
HOLE IN SPRING SEAT

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HOLE IN SPRING SEAT

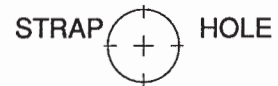
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USE 3/8 CAP SCREW TO ALIGN  
TEMPLATE ON RETAINING



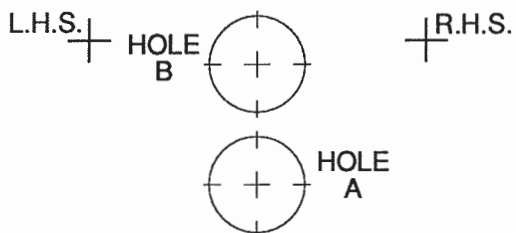
USE 3/8 CAP SCREW TO ALIGN  
TEMPLATE ON RETAINING



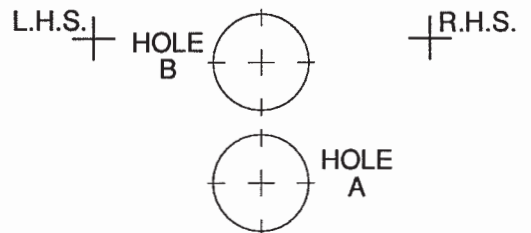
FOLD AWAY APPROX. 30°  
ALONG THIS LINE

FOLD AWAY APPROX. 30°  
ALONG THIS LINE

CENTER PUNCH FORWARD STAR  
IN EACH SPRING SEAT  
DRILL 1/2" DIA. HOLE



CENTER PUNCH FORWARD STAR  
IN EACH SPRING SEAT  
DRILL 1/2" DIA. HOLE



POSITION TEMPLATE ON APPROPRIATE EXISTING  
HOLE IN SPRING SEAT

POSITION TEMPLATE ON APPROPRIATE EXISTING  
HOLE IN SPRING SEAT

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**FAILURE TO MAINTAIN MINIMUM PRESSURE WILL VOID THE WARRANTY**

<b>MINIMUM AIR PRESSURE 10 P.S.I.</b>	<b>MAXIMUM AIR PRESSURE 50 P.S.I.</b>
<p><b>MAINTENANCE TIPS:</b></p> <ol style="list-style-type: none"><li>1. Check pressure weekly!</li><li>2. Always maintain at least 5 p.s.i. air pressure to prevent chafing or coil pinch.</li><li>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.</li></ol> <p><b>OPERATING TIPS:</b></p> <ol style="list-style-type: none"><li>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 the vehicle and for ride comfort.</li><li>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.</li></ol>	
	<p>Thank you for purchasing Air Lift Products</p> <p><b>AIR LIFT COMPANY</b> <b>P.O. BOX 80167</b> <b>Lansing, MI 48908-0167</b></p>
<p><b>FOR TECHNICAL ASSISTANCE CALL 1-800-248-0892</b></p>	
<p><b>Caution: DO NOT EXCEED THE VEHICLE MANUFACTURERS MAXIMUM GROSS VEHICLE WEIGHT RATING.</b></p>	