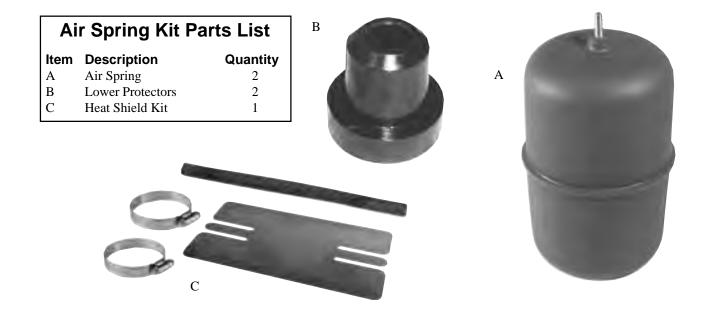


KIT No. 60754

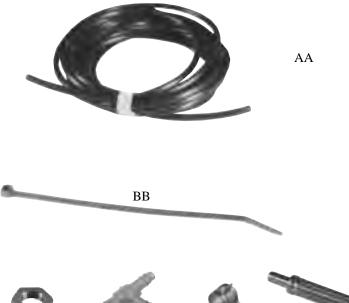


MN-410 (08706) ECR 6162

Please read these instructions completely before proceeding with installation



Air Line Assembly Parts List		
Item	Description	Quantity
AA	Air Line Assembly	1
BB	Tie Strap	6
CC	Valve Caps	2
DD	5/16" Flat Washer	2
EE	Rubber Washer	2
FF	Star Washer	2
GG	5/16" Hex Nut	4
HH	Plastic Tee	1
JJ	Line Clips	6
KK	Inflation Valve	1



















Tools Needed

Open-end or box wrenches Pliers Ratchet with deep well sockets Drill and 5/16" bit Hoist or Floor Jacks Safety Stands Safety Glasses Air Compressor, or Compressed Air Source Spray Bottle with Dish Soap/Water Solution



Compressed air can cause injury and damage to the vehicle and components if it is not handled properly. For your safety, do not try to inflate the air springs until they have been properly secured to the vehicle.



Disconnect the sway bar links.

Raise the vehicle



If the vehicle is raised with an axle contact hoist, place axle stands under the frame and lower the axle as needed . . .

or . . .



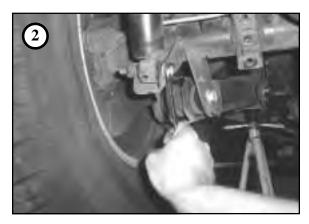
If the vehicle is raised with a frame contact hoist, place axle stands under the axle and lower the frame as needed . . .

or . . .



If the vehicle is raised with a jack on the axle, place axle stands under the frame and lower the axle as needed...

But do not perform the next step without restraining the axle from falling.



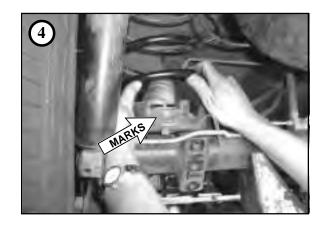
Disconnect both lower shock mountings.

Pry or pull jounce bumper out of pocket in lower spring seat. Jounce bumper must be loose to remove spring in next step.



Drop the axle so the coil springs can be removed.

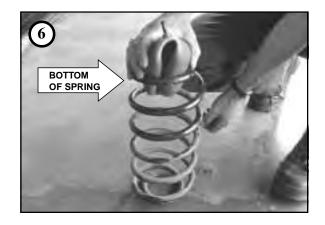
Mark the spring and retainer for orientation and pull coil spring up out of lower spring retainer and remove. Discard jounce bumper.

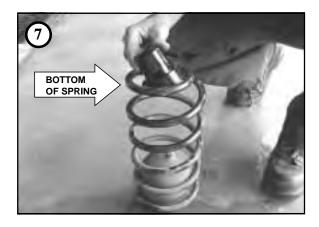


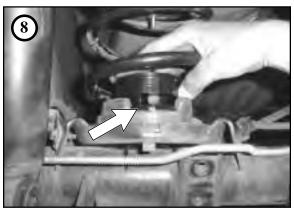
Deflate air cylinder and replace valve cap to keep cylinder deflated.



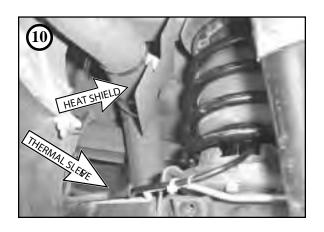
Insert air cylinder into coil spring with stem towards the bottom of the coil. Spring is shown in picture with bottom up.











Insert pedestal into the bottom of the coil spring as shown

Reinstall coil into vehicle. Align the marks made in previous step.

Insert small end of protector into lower spring seat pocket. Make sure side window on protector faces rear of vehicle.

PROCEED WITH OTHER SIDE OF VEHICLE, FOLLOWING ALL PRIOR STEPS.

Find a suitable location for the tee, such as along the back side of the axle near the center. Determine and cut adequate lengths of air line to route to both air springs from the tee.

Slide hose clip onto air line. Thread air line through window in protector and attach to air cylinder. Use pliers to open hose clip and slide over end of air line and air cylinder barbed fitting.

Push the cylinder down flat against the protector (Figure 9).

Repeat for other side.

Slide the thermal sleeve onto air line on right side, placing it along air line where it is nearest the exhaust (Figure 10).

This kit requires the installation of an exhaust heat shield. The shield is attached to the exhaust pipe, with the flanges being bent for component clearance. Bend tabs to provide 1/2" dead air space between exhaust pipes and heat shield and maximum clearance with spring (Figure 10).

CAUTION: Leave sufficient air line slack to prevent any strain on fitting during axle movements.

Route air lines along axle, securing line with tie wraps.

Connect the two air lines from the cylinders to opposite legs of the tee. Attach remaining length of air line to last leg of tee.

Determine a location for your inflation valve, such as under the bumper (Figure 11)...

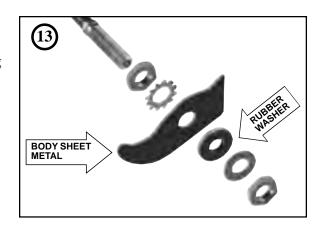


...or on the bumper next to the hitch receiver (Figure 12).

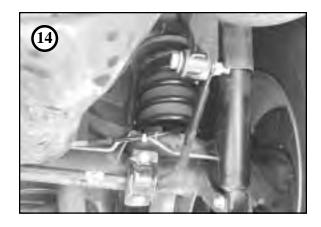
Route free end of remaining air line to this location, securing with tie wraps.



Drill a 5/16" hole for inflation valve and mount as illustrated (rubber washer is for outside weather seal). See Figure 13. Slide hose clip onto free end of remaining line, push line onto inflation valve and put on hose clip to secure line.



Raise the axle back to stock position. Reattach shocks to lower shock mountings. Reconnect sway bar links (Figure 14).





Inflate air springs to 10 psi. Spray all connections and the inflation valves with a solution of 1/3 dish soap and 2/3 water to check for leaks. You should be able to spot leaks easily by looking for bubbles in the soapy water. Now adjust air pressure for optimal comfort and performance - minimum 5 psi and maximum 35 psi.



Check the air pressure again after 24 hours. A 2 to 4 psi loss after initial installation is normal. Retest for leaks if the loss is more than 5 psi.

Troubleshooting Guide



Leak test all air line connections. Repair or replace as needed.



Inspect air line for holes and cracks. Replace as needed.



Inspect air lines to be sure it is not pinched. Tie straps may be too tight. Replace strap.



A kink or fold in the air line. Reroute as needed.



Leak test the inflation valve for leaks at the air line connection or dirt or debris in the valve core.



Product Use Information

Frequently asked questions

Q. Will installing air springs increase the weight ratings of a vehicle?

No. Adding air springs will not change the weight ratings (GAWR, GCWR and/or GVWR) of a vehicle. Exceeding the GVWR is dangerous and voids the Air Lift warranty.

Q. Is it necessary to keep air in the air springs at all time and how much pressure will they need?

The minimum air pressure should be maintained <u>at all times</u>. The minimum air pressure keeps the air spring in shape, ensuring that it will move throughout its travel without rubbing or wearing on itself.

Q. Is it necessary to add a compressor system to the air springs?

No. Air pressure can be adjusted with any type of compressor as long as it can produce sufficient pressure to service the springs. Even a bicycle tire pump can be used, but it's a lot of work.

Q. How long should air springs last?

If the air springs are properly installed and maintained they can last indefinitely.

Q. Will raising the vehicle on a hoist for service work damage the air springs?

No. The vehicle can be lifted on a hoist for short-term service work such as tire rotation or oil changes. However, if the vehicle will be on the hoist for a prolonged period of time, support the axle with jack stands in order to take the tension off of the air springs.

Tuning the air pressure

Pressure determination comes down to three things — level vehicle, ride comfort, and stability.

1. Level vehicle

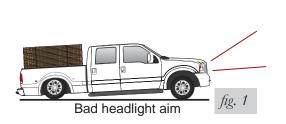
If the vehicle's headlights are shining into the trees or the vehicle is leaning to one side, then it is not level (fig. 1). Raise the air pressure to correct either of these problems and level the vehicle.

2. Ride comfort

If the vehicle has a rough and harsh ride it may be due to either too much pressure or not enough (fig. 2). Try different pressures to determine the best ride comfort.

3. Stability

Stability translates into safety and should be the priority, meaning the driver may need to sacrifice a perfectly level and comfortable ride. Stability issues include roll control, bounce, dive during braking and sponginess (fig. 3). Tuning out these problems usually requires an increase in pressure.



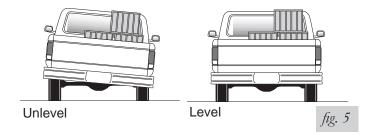




Guidelines for adding air:

- 1. Start with the vehicle level or slightly above.
- 2. When in doubt, always add air.
- 3. For motorhomes, start with 50-100 PSI in the rear because it can be safely assumed that it is heavily loaded.
- 4. If the front of the vehicle dives while braking, increase the pressure in the front air bags, if equipped.
- 5. If it is ever suspected that the air bags have bottomed out, increase the pressure (fig. 4).
- 6. Adjust the pressure up and down to find the best ride.
- 7. If the vehicle rocks and rolls, adjust the air pressure to reduce movement.
- 8. It may be necessary to maintain different pressures on each side of the vehicle. Loads such as water, fuel, and appliances will cause the vehicle to be heavier on one side (fig. 5). As much as a 50 PSI difference is not uncommon.





AIR LIFT SYSTEMS SUSPENSION SYSTEMS