

Fig. 72 Large solenoid housing O-ring

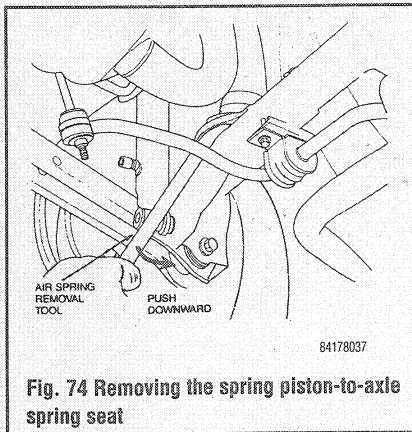


Fig. 74 Removing the spring piston-to-axle spring seat

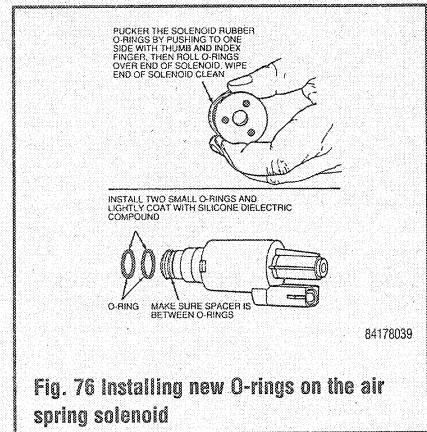


Fig. 76 Installing new O-rings on the air spring solenoid

e. After the air is fully bled from the system, rotate counterclockwise to the third stop and remove the solenoid from the solenoid housing. Remove the large O-ring from the solenoid housing.

5. Remove the spring piston-to-axle spring seat as follows:

a. Insert air spring removal tool T90P-5310-A or equivalent, between the axle tube and the spring seat on the forward side of the axle.

b. Position the tool so its flat end rests on the piston knob. Push downward, forcing the piston and retainer clip off the axle spring seat.

6. Remove the air spring.

To install:

7. Install the air spring solenoid as follows:

a. Check the solenoid O-rings for cuts or abrasion. Replace the O-rings as required. Lightly grease the O-ring area of the solenoid and the larger solenoid housing O-ring with silicone dielectric compound.

b. Insert the solenoid into the air spring end cap and rotate clockwise to the third stop, push in to the second stop, then rotate clockwise to the first stop.

c. Install the solenoid clip. Inspect the wire harness connector and ensure the rubber gasket is in place at the bottom of the connector cavity.

8. Install the air spring into the frame spring seat, taking care to keep the solenoid air and electrical connections clean and free of damage.

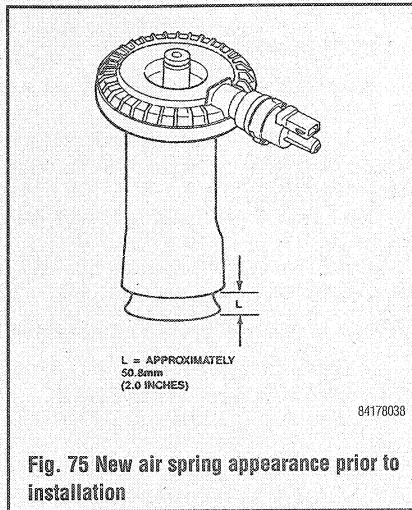


Fig. 75 New air spring appearance prior to installation

9. Connect the push on spring retainer clip to the knob of the spring cap from the top side of the frame spring seat.

10. Connect the air line and electrical connector to the solenoid. Install the heat shield to frame spring seat, if required.

11. Align the air spring piston to axle seats. Squeeze to increase pressure and push downward on the piston, snapping the piston to axle seat at rebound and supported by the shock absorber.

➔ **The air springs may be damaged if the suspension is allowed to compress before the spring is inflated.**

12. Refill the air spring as follows:

a. Turn the air suspension switch **ON**. The ignition switch must be **ON** and the engine running or a battery charger must be connected to the battery to reduce battery drain.

b. Fold back or remove the right luggage compartment trim panel and connect SUPER STAR II tester 007-0041-A or equivalent to the air suspension diagnostic connector, which is located near the air suspension switch.

c. Set the tester to EEC-IV/MCU mode. Also set the tester to FAST mode. Release the tester button to the HOLD (up) position and turn the tester **ON**.

d. Depress the tester button to TEST (down) position. A Code 10 will be displayed. Within 2 minutes, a Code 13 will be displayed. After Code 13 is displayed, release the tester button to

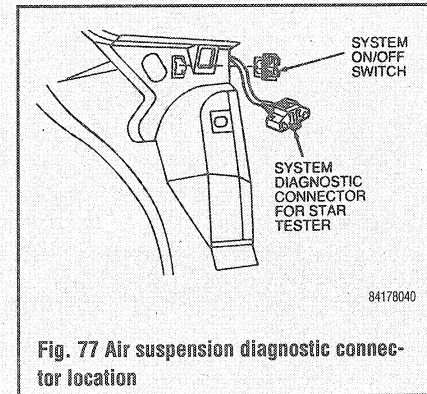


Fig. 77 Air suspension diagnostic connector location

Code	Description
23	Vent Rear
26	Compress Rear
31	Cycle Compressor On and Off Repeatedly
32	Cycle Vent Solenoid Valve Open and Closed Repeatedly
33	Cycle Spring Solenoid Valves Open and Closed Repeatedly

Fig. 78 Air suspension codes

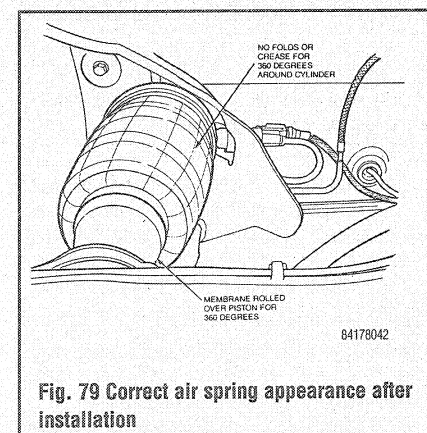


Fig. 79 Correct air spring appearance after installation

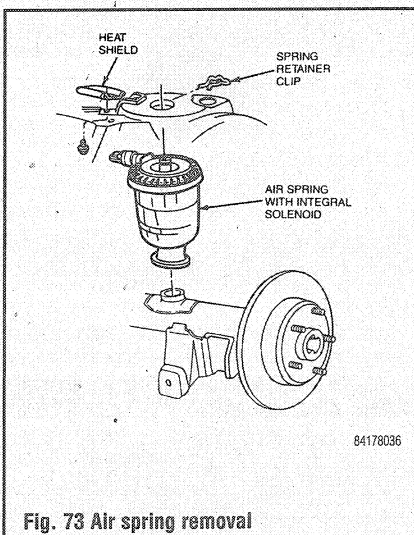


Fig. 73 Air spring removal

HOLD (up) position, wait 5 seconds, and depress the tester button to TEST (down) position. Ignore any codes displayed.

e. Release the tester button to the HOLD (up) position. Wait at least 20 seconds, then depress the tester button to TEST (down) position. Within