REMOVAL AND INSTALLATION (Continued)

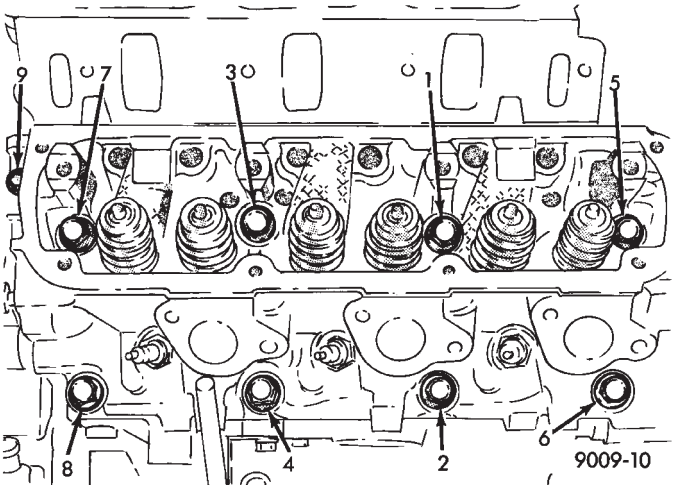

Fig. 31 Cylinder Head Bolts Location and Tightening Sequence

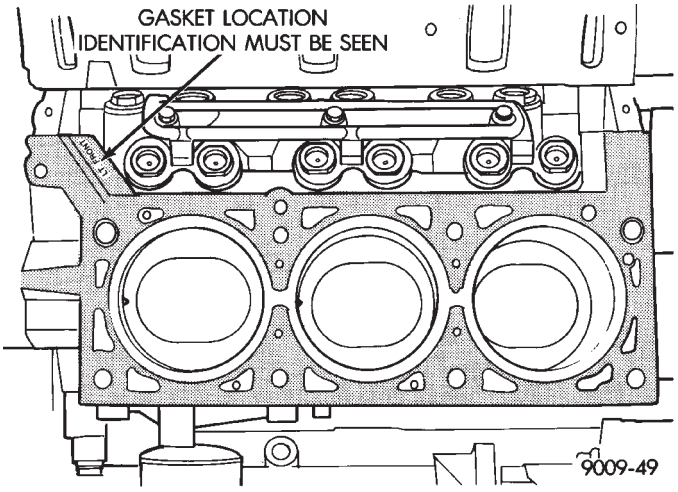

Fig. 32 Head Gasket Installation

necked down, the bolts should be replaced (Fig. 33).

(4) Necking can be checked by holding a scale or straight edge against the threads. If all the threads do not contact the scale the bolt should be replaced.

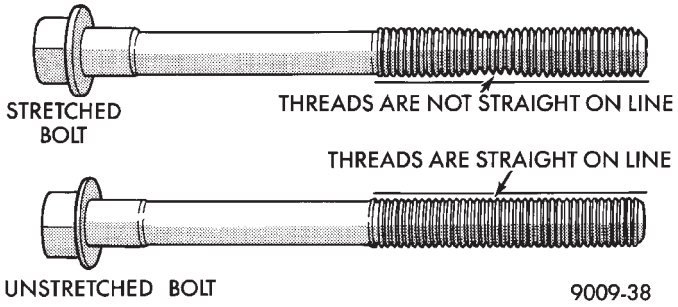

Fig. 33 Checking Bolts for Stretching (Necking)

(5) Tighten the cylinder head bolts 1 thru 8 in the sequence shown in (Fig. 31). Using the 4 step torque turn method, tighten according to the following values:

- First-All to 61 N·m (45 ft. lbs.)
- Second-All to 88 N·m (65 ft. lbs.)
- Third-All (again) to 88 N·m (65 ft. lbs.)
- Fourth-Turn an additional 1/4 Turn. **(Do not use a torque wrench for this step.)**

NOTE: Bolt torque after 1/4 turn should be over 122 N·m (90 ft. lbs.). If not, replace the bolt.

(6) Tighten head bolt number 9 (Fig. 31) to 33 N·m (25 ft. lbs.) after head bolts 1 thru 8 have been tighten to specifications.

(7) Inspect push rods and replace worn or bent rods.

(8) Install push rods, rocker arm and shaft assemblies with the stamped steel retainers in the four positions, tighten to 28 N·m (250 in. lbs.) (Fig. 34).

(9) Place new cylinder head cover gaskets in position and install cylinder head covers. Tighten to 12 N·m (105 in. lbs.).

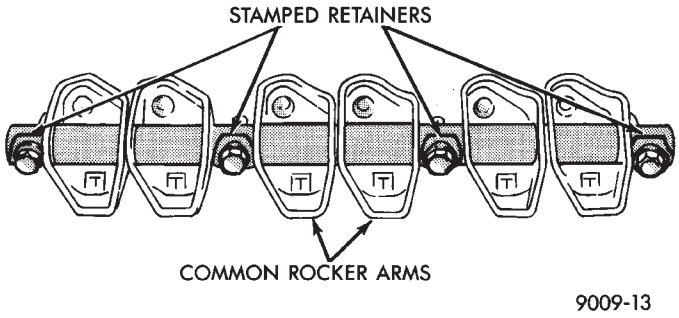

Fig. 34 Rocker Arm Shaft Retainers

INTAKE MANIFOLD SEALING

The intake manifold gasket is a one-piece stamped steel gasket with a sealer applied from the manufacturer. This gasket has end seals incorporated with it.

WARNING: INTAKE MANIFOLD GASKET IS MADE OF VERY THIN METAL AND MAY CAUSE PERSONAL INJURY, HANDLE WITH CARE.

(1) Clean all surfaces of cylinder block and cylinder heads.

(2) Place a drop (about 1/4 in. diameter) of Mopar Silicone Rubber Adhesive Sealant or equivalent, onto each of the **four** manifold to cylinder head gasket corners (Fig. 35).

(3) Carefully install the intake manifold gasket (Fig. 36). Torque end seal retainer screws to 12 N·m (105 in. lbs.).

(4) Install intake manifold and (8) bolts and torque to 1 N·m (10 in. lbs.). Then tighten bolts to 22 N·m (200 in. lbs.) in sequence shown in (Fig. 37). Then