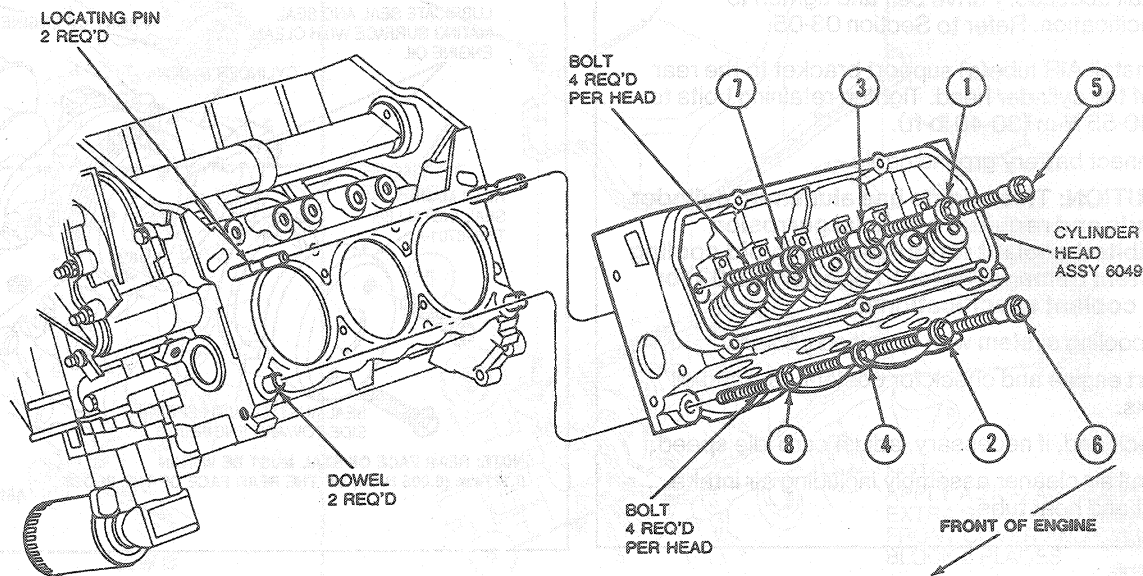


IN-VEHICLE SERVICE (Continued)

- f. Short bolts: Loosen bolt and back out two or three revolutions. Retighten to 10-20 N·m (7-15 lb-ft), then rotate an additional 85-95 degrees. Go to next bolt in sequence.



NOTE: When cylinder head retaining bolts have been tightened using the above procedure, it is not necessary to retighten bolts after extended engine operation. However, bolts can be checked for tightness if desired.

6. Dip each push rod end in Engine Assembly Lubricant D9AZ-19579-D (ESR-M99C80-A) or equivalent heavy engine oil. Install push rods in their original position.
7. For each valve, rotate crankshaft until tappet rests on the heel (base circle) of the camshaft lobe, before tightening fulcrum retaining bolts. Position rocker arms over push rods, install fulcrums. Tighten fulcrum bolts to 5 N·m (44 lb-in) maximum.
8. Lubricate all rocker arm assemblies with Engine Assembly Lubricant D9AZ-19579-D (ESR-M99C80-A) or equivalent heavy engine oil.
NOTE: If original valve train components are being installed, a valve clearance check is not required. If a component has been replaced, perform a valve clearance check. Refer to Section 03-00.
Final-tighten the fulcrum bolts to 25-35 N·m (19-25 lb-ft). For final tightening, camshaft may be in any position.
9. Install exhaust manifold and exhaust manifold.
10. Install lower intake manifold.

11. Install injector fuel rail assembly. Tighten retaining bolts to 8-11 N·m (6-8 lb-ft).
12. Position cover and new gasket on cylinder head and install retaining bolts. Note location of spark plug wire routing clip stud bolts. Tighten bolts to 9-12 N·m (80-106 lb-in).
13. Install upper intake manifold.
14. Install spark plugs, if removed.
15. Connect secondary wires to the spark plugs.
16. If LH cylinder head is being installed, perform the following:
 - Install oil fill cap.
 - If equipped with air conditioning, install compressor mounting and support brackets. Refer to Section 12-03 for torque specifications.
 - Install power steering pump mounting and support brackets. Tighten all bolts to 40-62 N·m (30-45 lb-ft).
 - Install generator / support bracket.
17. If RH cylinder head is being installed, perform the following:
 - Install PCV valve.
 - Install generator bracket. Tighten retaining nuts to 40-55 N·m (30-40 lb-ft).
 - Install Secondary Air Injection (AIR) pump and pump pulley. Refer to Specifications.