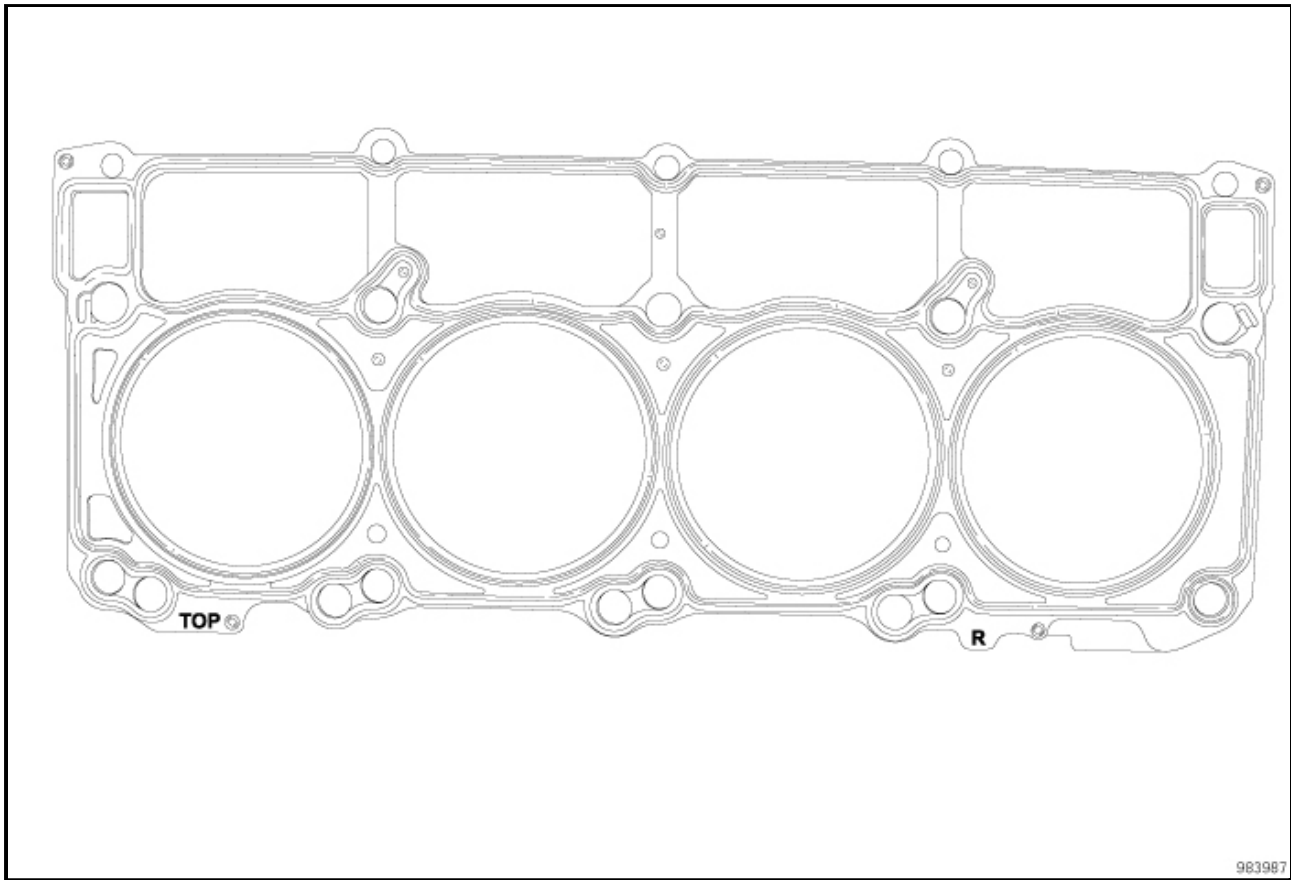


INSTALLATION

Special Tools: Click to display a list of tools used in this procedure

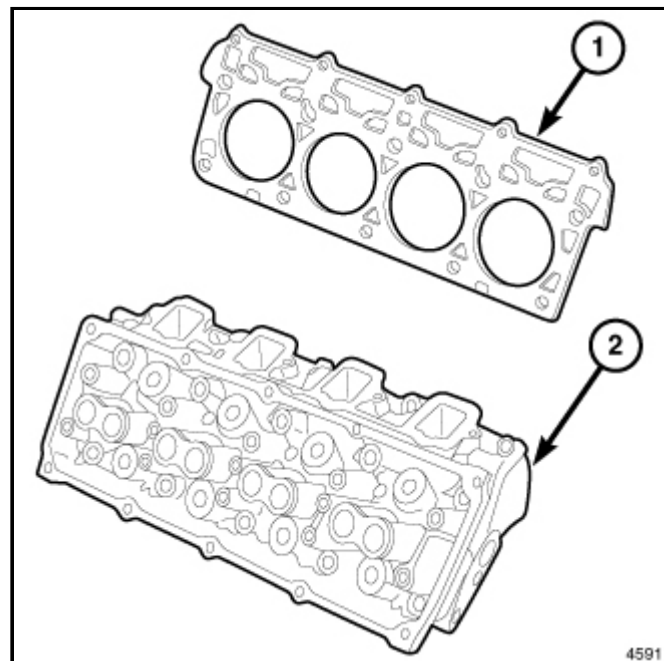


1. Clean all surfaces of cylinder block and cylinder heads.
2. Clean cylinder block front and rear gasket surfaces using a suitable solvent.

CAUTION: The cylinder head gaskets are not interchangeable between the left and right sides. They are marked with an "L" and "R" to indicate the left or right side and they are marked "TOP" to indicate which side goes up.

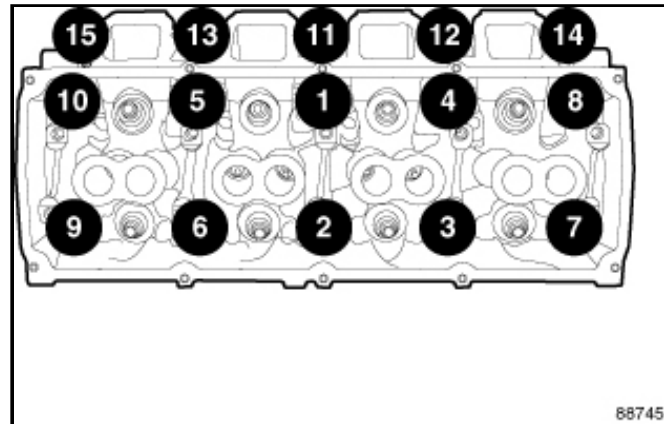
CAUTION: The head gaskets are marked "TOP" to indicate which side goes up.

3. Position the new cylinder head gasket (5) onto the cylinder block.
4. Position cylinder head (4) onto head gasket (5) and cylinder block.



4591

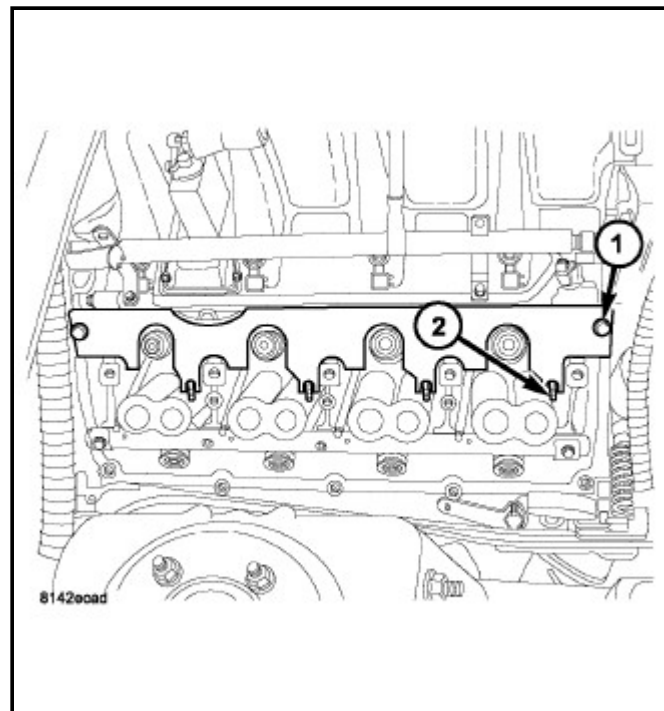
5. Using the sequence shown, tighten the cylinder head bolts 1 through 10 to 34 N·m (25 ft. lbs.).
6. Using the sequence shown, tighten the cylinder head bolts 11 through 15 to 20 N·m (15 ft. lbs.).
7. Using the sequence shown, tighten the cylinder head bolts 1 through 10 to 54 N·m (40 ft. lbs.).
8. Using the sequence shown, tighten the cylinder head bolts 11 through 15 to 20 N·m (15 ft. lbs.).
9. Using the sequence shown, rotate the cylinder head bolts 1 through 10 90°.



88745

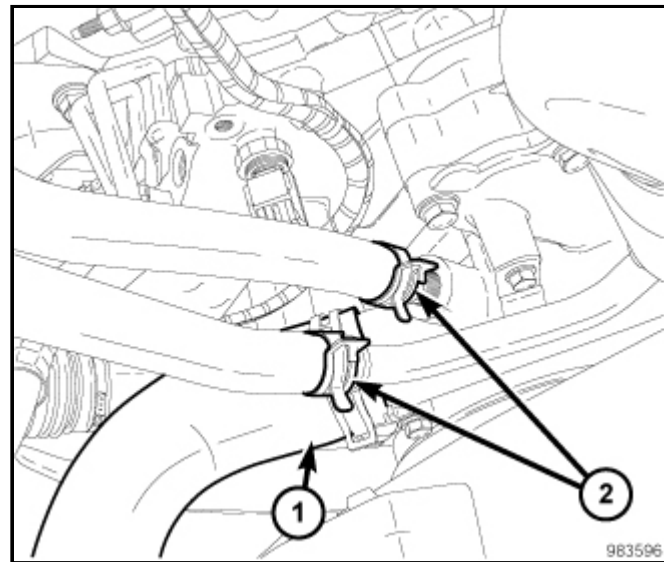
10. Using the sequence shown, tighten the cylinder head bolts 11 through 15 to 34 N·m (25 ft. lbs.).

11. Install the push rods and rocker arm assemblies in their original position, using Pushrod Retainer [9070](#) (1) ([Refer to 09 - Engine/Cylinder Head/ROCKER ARM, Valve - Installation](#))
12. Install the intake manifold ([Refer to 09 - Engine/Manifolds/MANIFOLD, Intake - Installation](#))
13. Install the spark plugs.

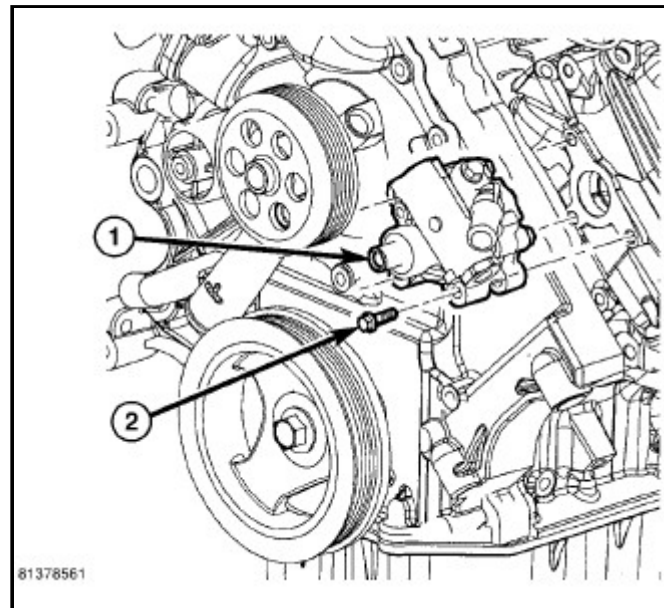


8142ead

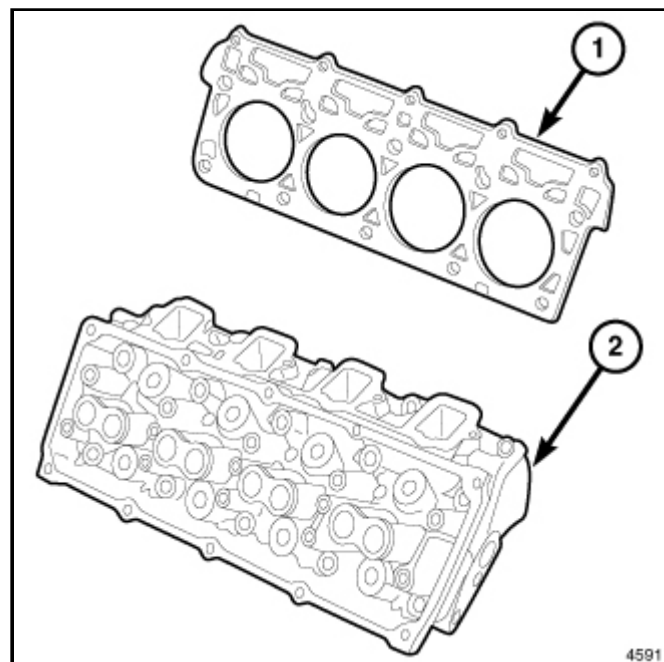
14. Connect the heater hoses (2).
15. Connect the fuel supply line.



16. Install the three power steering pump mounting bolts (2) through the access holes in the pulley and tighten bolts to 28 N·m (21 ft. lbs.).
17. Install the accessory drive belt ([Refer to 07 - Cooling/Accessory Drive/BELT, Serpentine - Installation](#))

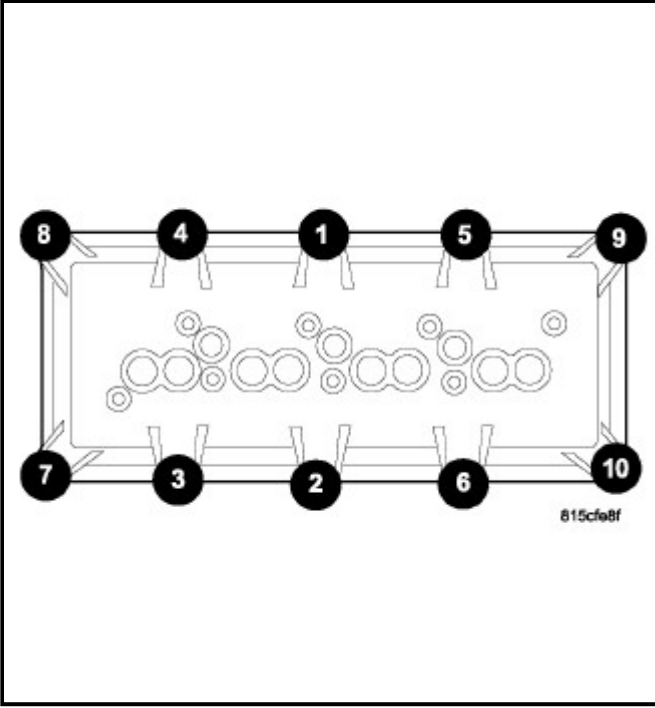


18. Install the cylinder head cover (1) and hand start all fasteners. Verify that all double ended studs (3) are in the correct location ([Refer to 09 - Engine/Cylinder Head/COVER\(S\), Cylinder Head - Installation](#))

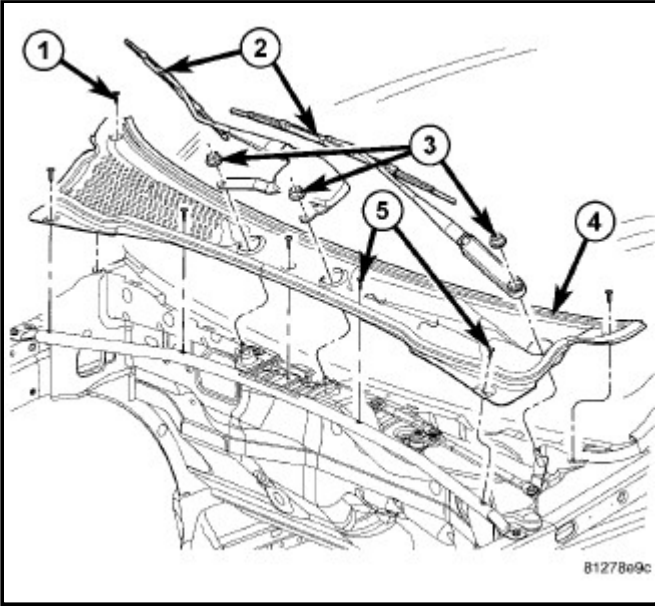


19. Using the sequence shown, tighten the cylinder head cover bolts and double ended studs to 8 N·m (70 in. lbs.).
20. Connect the evaporation control system.

21. Install the air cleaner.



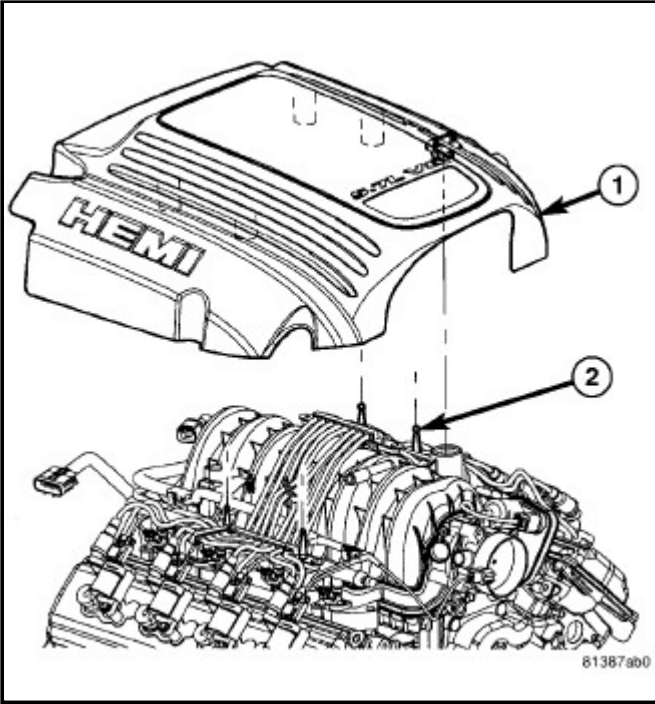
22. Install cowl grille (4).



23. Install the engine cover (1) ([Refer to 09 - Engine/COVER, Engine - Installation](#))

24. Fill the cooling system ([Refer to 07 - Cooling - Standard Procedure](#))

25. Drain and fill the engine with new oil.



26. Connect the negative battery cable (2).
27. Start the engine and check for leaks.

