

Cylinder Head

Removal (engine removal not required)

CAUTION: To avoid damaging the cylinder head, wait until the coolant temperature drops below 38°C (100°F) before loosening the retaining bolts.

NOTE:

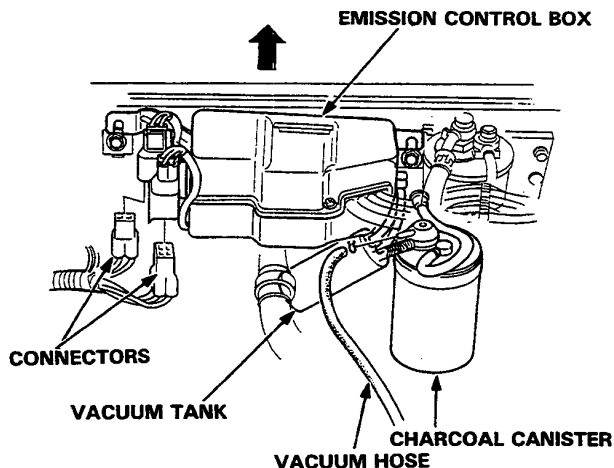
- Inspect the timing belt before removing the cylinder head.
- Turn the flywheel so that the No. 1 cylinder is at top-dead-center (page 5-26).
- Mark all emissions hoses before disconnecting them.

1. Disconnect the negative terminal from the battery.
2. Drain the cooling system (See 5-64).
3. Remove the brake booster vacuum hose from the intake manifold (page 5-49).
4. Remove the engine secondary ground cable from the valve cover.
5. Disconnect the radio condenser connector, ignition coil wire (page 5-48).
6. Remove the air cleaner cover.
7. Relieve fuel pressure. (See Section 6).

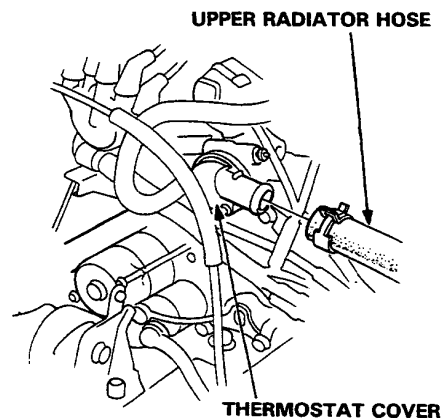
WARNING Do not smoke while working on fuel system, keep open flame or spark away from work area. Drain fuel only into an approved container.

8. Disconnect the fuel hose and fuel return hose.
9. Remove the air intake hose and resonator hose (page 5-47).
10. Disconnect the throttle cable at the throttle body (page 5-47).
11. Disconnect the throttle control cable at the throttle body. (A/T only)
12. Disconnect the charcoal canister hose at the throttle valve.
13. Disconnect the engine wire harness connectors from the cylinder head.
 - Four injector connectors
 - EACV connector
 - TA sensor connector
 - Fuel Injector resistor connector
 - Throttle angle sensor connector
 - TDC/CRANK sensor connector
 - EGR valve lift sensor connector
 - Shift control solenoid valve connector (A/T only)
 - Lock up control solenoid valve connector (A/T only)
 - Two back up light connectors (M/T only)
 - Two oxygen sensor connectors
 - Two TW sensor connectors
 - Coolant temperature gauge sending unit connector
 - Coolant temperature switch connector
 - CYL sensor connector
 - Ground terminals at the fuel pipe
 - A/T speed pulser connector
 - Engine oil pressure switch connector
 - Alternator connector and terminal

14. Remove the emission control box and vacuum tank, then disconnect two connectors. Do not remove the emission hoses.



15. Remove the upper radiator hose from the thermostat cover.

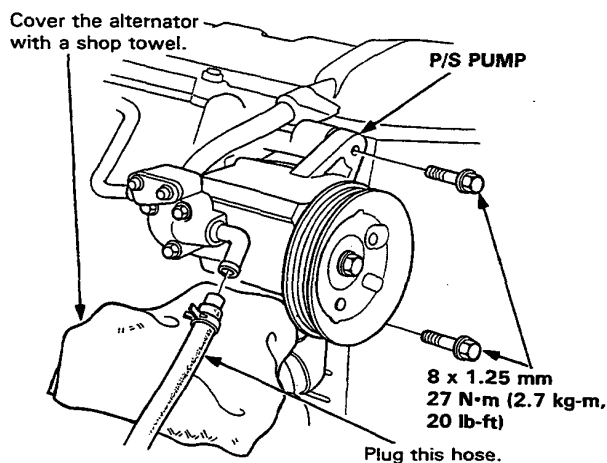


16. Remove the heater hose from the cylinder head.
17. Remove the water bypass hoses from the water pump inlet pipe.

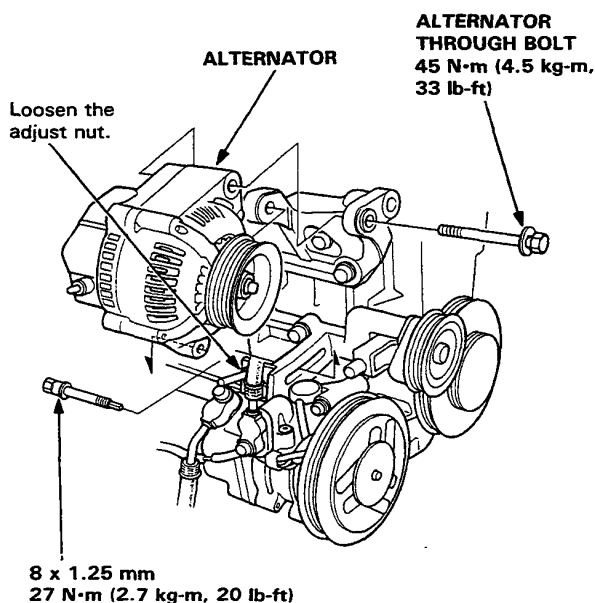


18. Remove the power steering belt and the alternator belt (page 5-24).
19. Disconnect the inlet hose of the power steering pump, then remove the power steering pump from the cylinder head.

CAUTION: When the hose is disconnected, fluid will flow out. Cover the alternator with a shop towel.

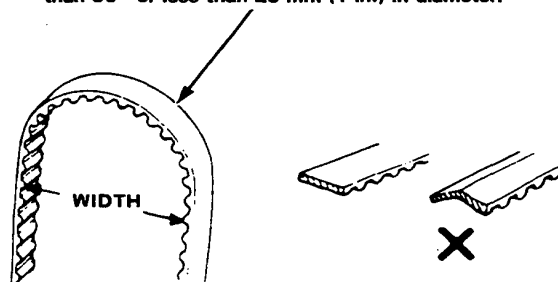


20. Remove the alternator.



21. Remove the intake manifold bracket (page 5-56).
22. Remove the exhaust manifold bracket, then remove the header pipe (page 5-58).
23. Remove the ignition wire, then remove the distributor.
24. Remove the CYL sensor.
25. Remove the valve cover.
26. Remove the timing belt middle cover.
27. Remove the crankshaft pulley, then remove the timing belt lower cover.
28. Loosen the timing belt adjust bolt, then remove the timing belt.

CAUTION: Do not crimp or bend timing belt more than 90° or less than 25 mm (1 in.) in diameter.



29. Remove the camshaft holders, camshafts and rocker arms.
30. Remove the cylinder head.
31. Remove the exhaust manifold shroud and EGR pipe, then remove the exhaust manifold from the cylinder head.
32. Remove the intake manifold from the cylinder head.