

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 5-32).
- Mark all emissions hoses before disconnecting them.

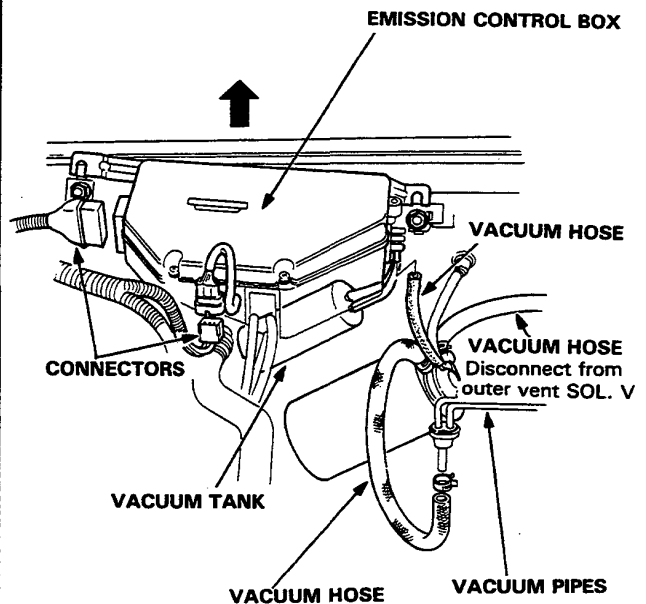
1. Disconnect the negative terminal from the battery.
2. Drain the cooling system (See page 5-64).
3. Remove the brake booster vacuum hose from the tubing manifold (page 5-49).
4. Remove the engine secondary ground cable from the valve cover.
5. Disconnect the radio condenser connector, ignition coil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

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

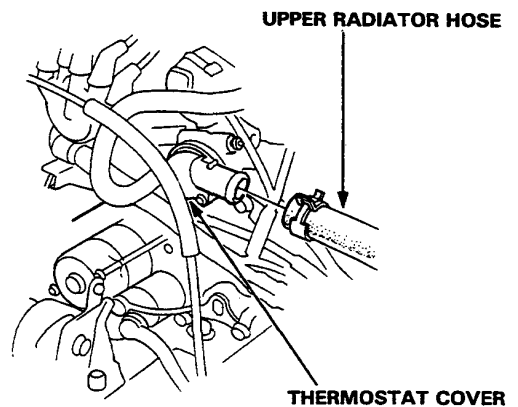
8. Remove the throttle cable from the carburetor.
9. Disconnect the engine wire harness connectors from the cylinder head.
 - Shift control solenoid valve connector (A/T only)
 - Lock-up control solenoid valve connector (A/T only)
 - Back-up light switch connectors (M/T only)
 - Oxygen sensor connector
 - Ground terminals at the fuel pipe
 - TW sensor connector
 - Coolant temperature gauge sending unit connector
 - A/T speed pulser connector (A/T only)
 - Throttle angle sensor connector (A/T only)
 - TA sensor connector
 - Air leak solenoid valve connector
 - Inner vent solenoid valve connector
 - EACV connector
 - Engine oil pressure connector
 - R. primary slow mixture cut-off solenoid valve connector
 - L. primary slow mixture cut-off solenoid valve connector
 - Air vent cut-off solenoid valve connector
 - Alternator connector and terminal

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

11. Disconnect the charcoal canister vacuum hoses.



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

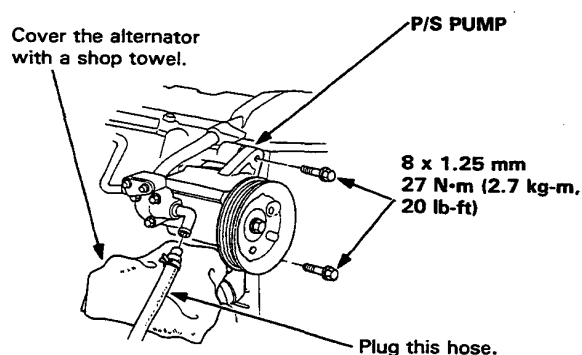


13. Remove the heater hose from the cylinder head.

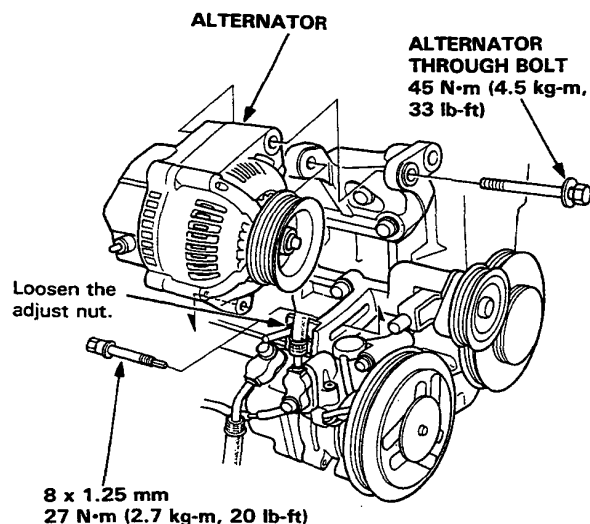


14. Remove the water bypass hoses from the water pump inlet pipe.
15. Remove the power steering belt and the alternator belt (page 5-30).
16. Disconnect the inlet hose of the power steering (P/S) pump, then remove the P/S pump from the cylinder head.

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



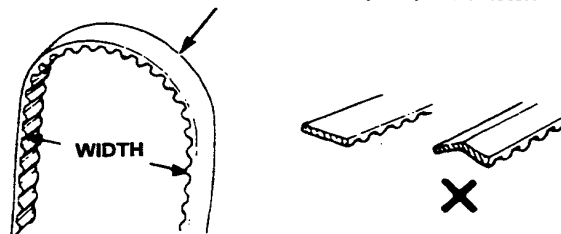
17. Remove the alternator.



18. Remove the intake manifold bracket (page 5-57).
19. Remove the exhaust manifold bracket, and then remove the header pipe (page 5-59).
20. Remove the valve cover.

21. Remove the timing belt upper cover.
22. Remove the crankshaft pulley, then remove the timing belt lower cover.
23. 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.



24. Remove the cylinder head bolts, then remove the cylinder head.
25. Remove the EGR pipe and air suction pipe from the intake and exhaust manifolds.
26. Remove the exhaust manifold shroud, then remove the exhaust manifold from the cylinder head.
27. Remove the intake manifold from the cylinder head.