

# Cylinder Head

## Removal

Engine removal is not required for this procedure.

**⚠ WARNING** Make sure jacks and safety stands are placed properly and hoist brackets are attached to correct position on the engine.

### CAUTION:

- Use fender covers to avoid damaging painted surfaces.
- Unplug the wiring connectors carefully while holding the connector portion to avoid damage.
- To avoid damaging the cylinder head, wait until the engine coolant temperature drops below 38°C (100°F) before loosening the retaining bolt.

### NOTE:

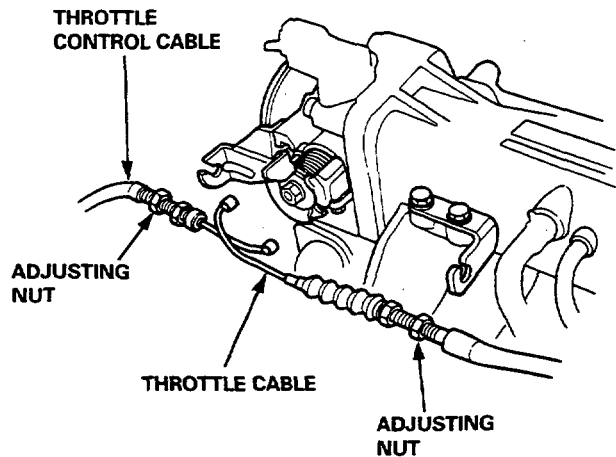
- Unspecified items are common.
- Mark all wiring and hoses to avoid misconnection. Also, be sure that they do not contact other wiring or hoses or interfere with other parts.
- Inspect the timing belt before removing the cylinder head.
- Turn the crankshaft pulley so that the No. 1 piston is at top dead center (see page 6-14).

1. Disconnect the battery negative terminal first, then the positive terminal.
2. Drain the engine coolant (see page 10-4).
  - Remove the radiator cap speed draining.

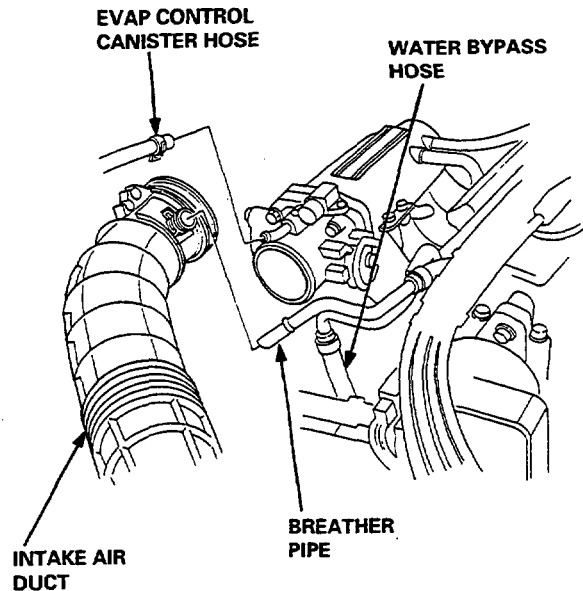
3. Remove the throttle cable and throttle control cable (A/T).

### NOTE:

- Take care not to bent the cable when removing it. Always replace any kinked cable with a new one.
- Adjust the throttle cable and throttle control cable when installing (see section 11 and 14).



4. Remove the intake air duct, breather pipe, water bypass hose and evaporative emission (EVAP) control canister hose.

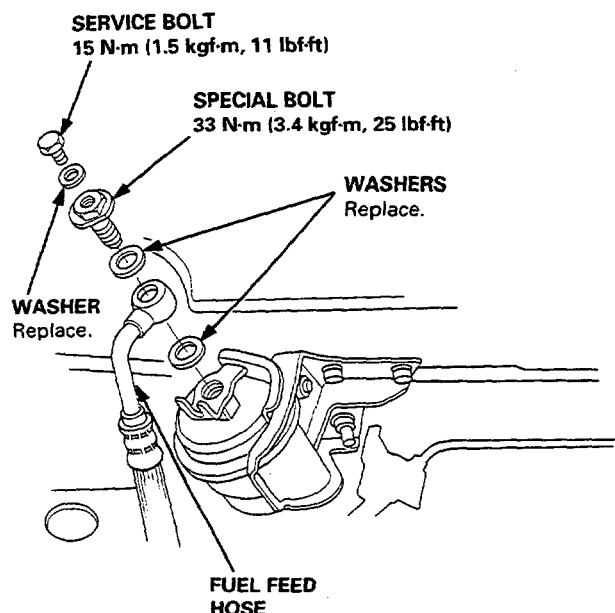




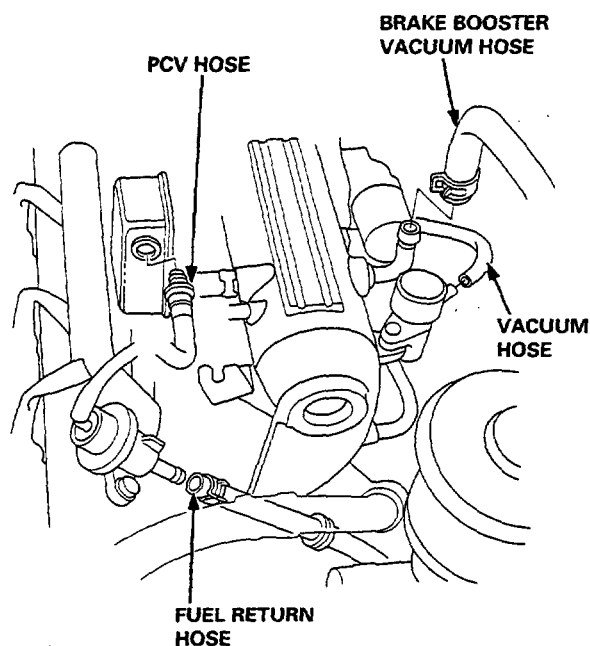
5. Relieve fuel pressure (see section 11).

**⚠ 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.

6. Remove the fuel feed hose.



7. Remove the fuel return hose, positive crankcase ventilation (PCV) hose, vacuum hose and brake booster vacuum hose.



8. Remove the power steering (P/S) pump belt, engine ground cable and P/S pump (see page 6-21).

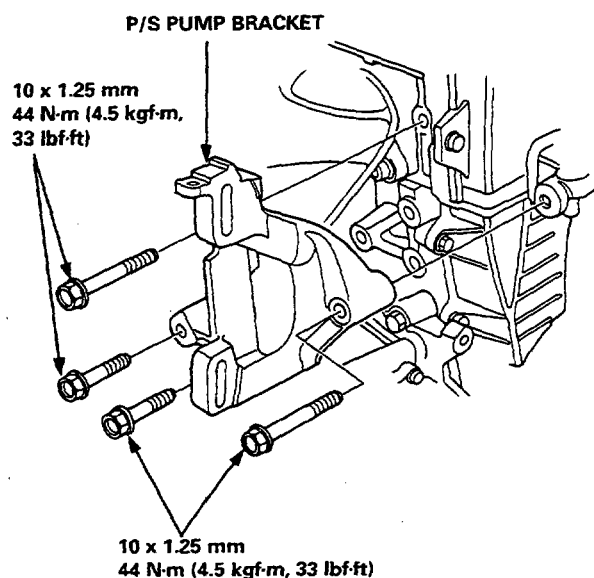
9. Remove the air conditioning (A/C) compressor belt (see page 6-21).

10. Remove the alternator belt (see page 6-21).

11. Remove the engine wire harness connectors and wire harness clamps from the cylinder head and the intake manifold.

- Four injector connectors
- Intake air temperature (IAT) sensor connector
- Throttle position sensor connector
- Manifold absolute pressure (MAP) sensor connector
- Heated oxygen sensor (HO2S) connector
- Engine coolant temperature (ECT) sensor connector
- ECT switch connector
- ECT gauge sending unit connector
- VTEC solenoid valve connector (D16Y2, D15Z3 engines)
- TDC/CKP/CYP sensor connector
- Exhaust gas recirculation (EGR) valve lift sensor connector (D15Z3 engine)

12. Remove the P/S pump bracket.



(cont'd)

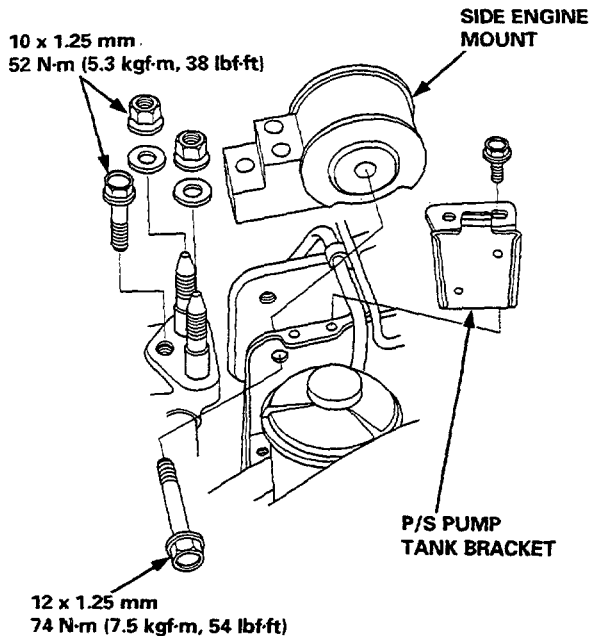
# Cylinder Head

## Removal (cont'd)

13. Remove the side engine mount and P/S pump tank bracket.

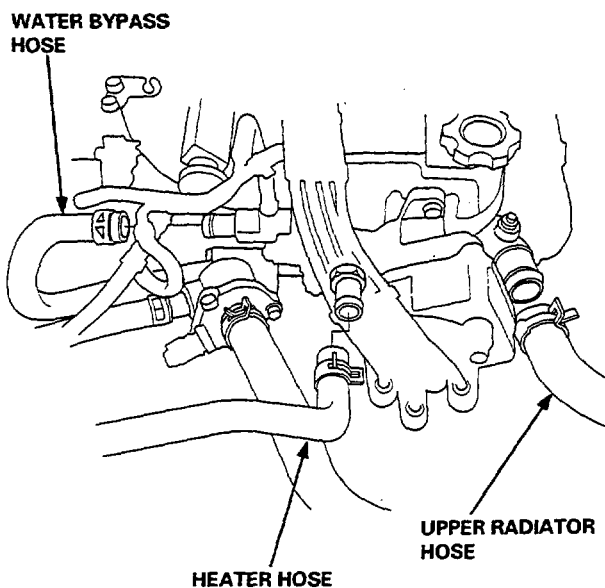
**NOTE:**

- Use the jack to support the engine before the side engine mount is removed.
- Make sure to place a cushion between the oil pan and the jack.

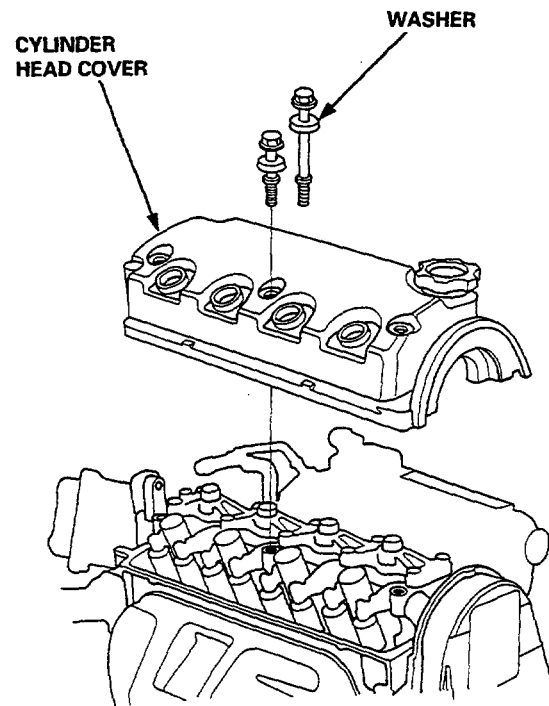


14. Remove the spark plug caps and distributor from the cylinder head.

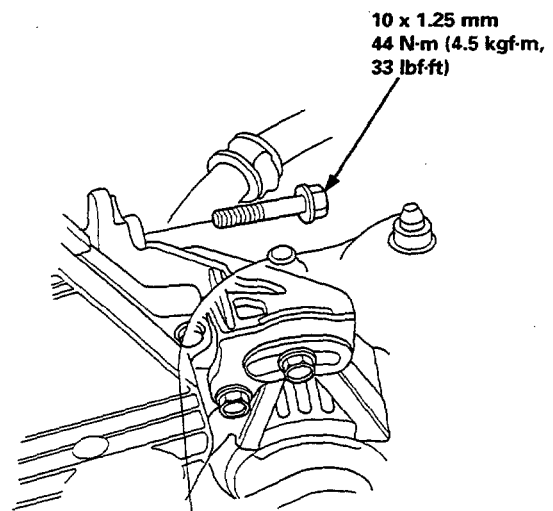
15. Remove the upper radiator hose, heater hose and water bypass hose.



16. Remove the cylinder head cover.



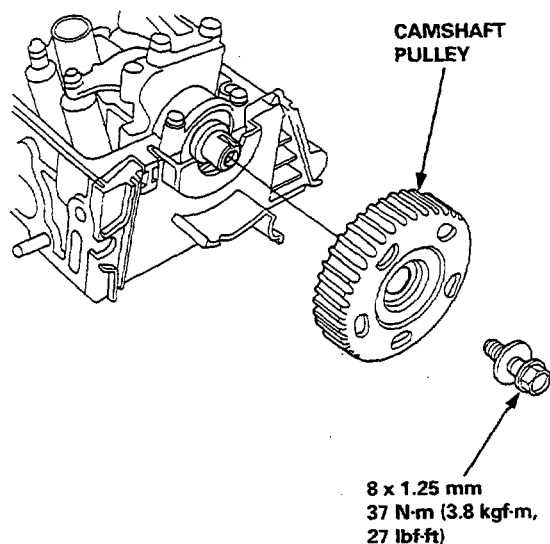
17. Remove the bolt from the alternator upper bracket.





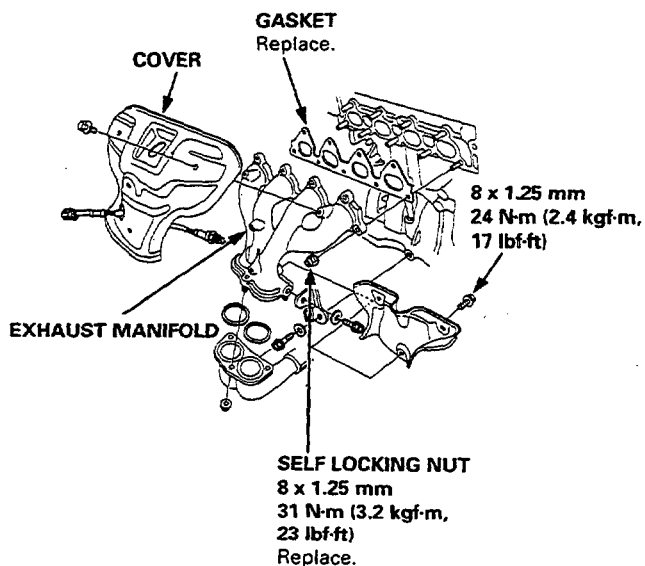
18. Remove the timing belt (see page 6-21).

19. Remove the camshaft pulley.

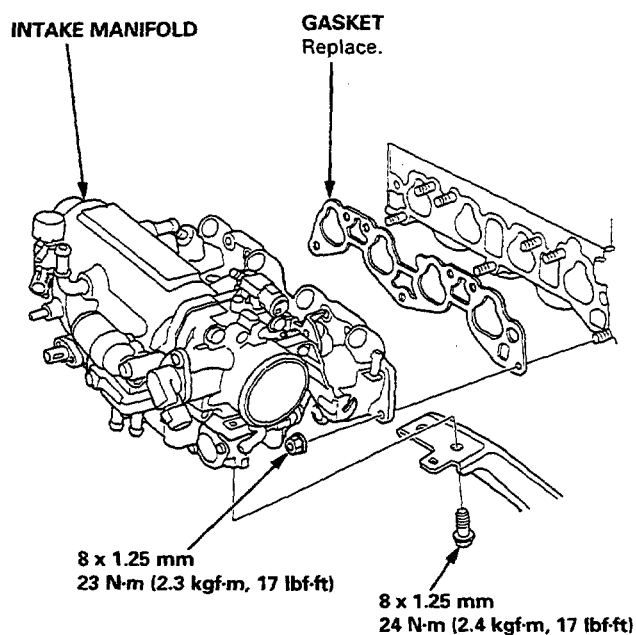


20. Remove the splash shield (see page 5-6).

21. Remove the exhaust manifold.



22. Remove the intake manifold.



23. Remove the cylinder head bolts, then remove the cylinder head.

**CAUTION:** To prevent warpage, unscrew the bolts in sequence 1/3 turn at a time; repeat the sequence until all bolts are loosened.

