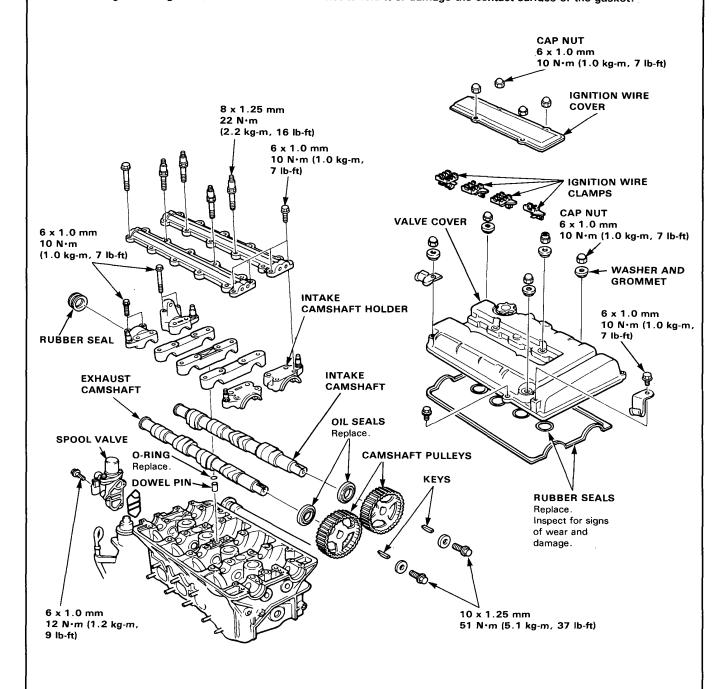
Cylinder Head



Removal (engine removal not required)-

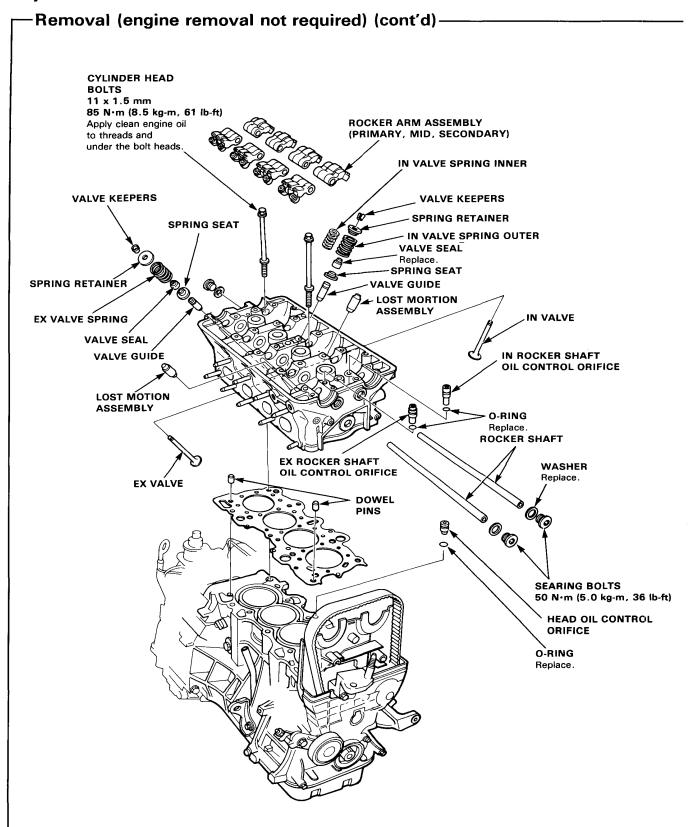
CAUTION:

- To avoid damaging the cylinder head, wait until the coolant temperature drops below 38 °C (100 °F) before removing it.
- In handling a metal gasket, care should be taken not to fold it or damage the contact surface of the gasket.



(cont'd)

Cylinder Head





AWARNING

- Make sure jacks and safety stands are placed properly (See Section 1).
- Apply parking brake and block rear wheels, so car will not roll off stands and fall on you while working under it.

CAUTION:

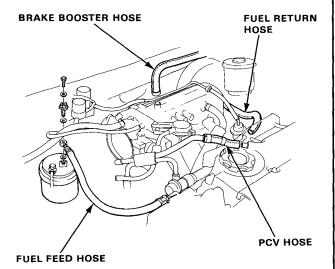
- Use fender covers to avoid damaging painted surfaces.
- To avoid damaging the cylinder head, wait until the coolant temperature drops below 38 °C (100 °F) before loosening the retaining bolts.

NOTE:

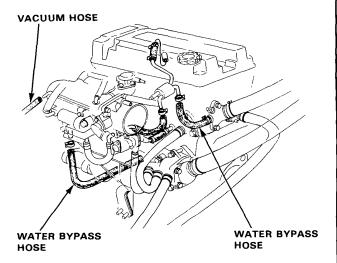
- Inspect the timing belt before removing the cylinder head.
- Turn the crankshaft pulley so that the No. 1 cylinder is at top-dead-center.
- Mark all emissions hoses before disconnecting them.
- 1. Disconnect the negative terminal from the battery.
- 2. Drain the coolant system.
- 3. Relieve fuel pressure (See Section 6).
- 4. Disconnect the fuel feeder hose and fuel return hose.

A WARNING

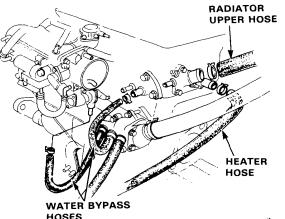
- Do not smoke while working on fuel system, keep open flame or spark away from work area.
- · Drain fuel only into an approved container.
- 5. Remove the brake booster vacuum hose.
- 6. Disconnect the PCV hose.



- 7. Disconnect the breather tube and air intake hose.
- Disconnect the vacuum hose from the intake manifold.
- 9. Disconnect the charcoal canister hose.
- 10. Disconnect the water bypass hose.
- Disconnect the engine wire connectors and clamps from the cylinder head, throttle body, and IN/EX manifolds.
 - Ignition coil connector (from distributor)
 - EACV connector
 - · Engine ground wire
 - · Thermounit connector
 - · Coolant temperatuer sensor connector



- · Intake air pressure sensor connector
- · Throttle angle sensor connector
- · Injection connector
- TDC/CRANK sensor connector
- 12. Disconnect the radiator upper hose at the engine.
- 13. Remove the heater hose.



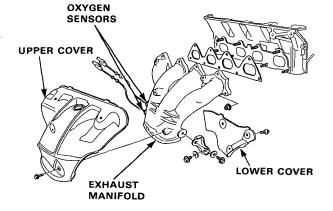
Cylinder Head

-Removal (engine removal not required) (cont'd)-

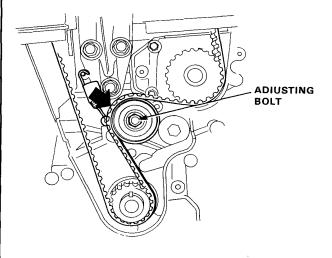
- 14. Remove the front left wheel and tire.
- 15. Remove the left splash shield.
- 16. Remove the mounting bolts of the intake manifold bracket.

CAUTION:

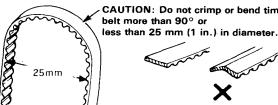
- Remove the oxygen sensors before disconnecting the exhaust manifold and the exhaust pipe A.
- Do not use air wrench or hummer for disconnecting the exhaust manifold and the exhaust pipe A, if the oxygen sensors are not to be removed.
- 17. Remove the exhaust manifold upper cover.
- 18. Remove the exhaust manifold bracket.
- 19. Remove the self-lock nut of the exhaust pipe A.
- 20. Remove the exhaust manifold.



- 21. Remove the ignition wire cover and ignition wire.
- 22. Remove the valve cover.
- 23. Remove the timing belt middle cover.
- 24. Loosen the timing belt adjusting bolt, releasing the timing belt, and fix the bolt.



25. Remove the timing belt from the camshaft pulleys.



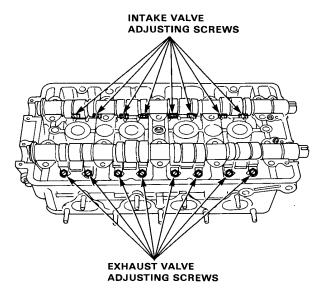
CAUTION: Do not crimp or bend timing belt more than 90° or





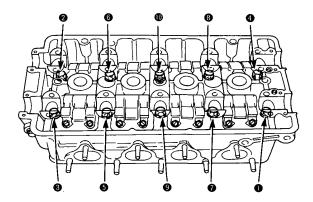
- 26. Loosen the valve adjusting screws.
- Remove the camshaft holders, then remove the camshafts.

NOTE: Loosen the camshaft holder bolts a criss-cross pattarn in 2 or 3 steps, bigining with the outer bolts.



Loosen the cylinder head bolts, then remove the cylinder head.

NOTE: Loosen the bolts a criss-cross pattern in 2 or 3 steps, biginning with the outer nuts.



29. Remove the intake manifold from the cylinder head.

