

# Cylinder Head/Valve Train

## Cylinder Head Removal (engine removal not required)

**CAUTION:** Do not remove the cylinder head until the coolant temperature drops below 38°C (100°F).

**NOTE:**

- Inspect the timing belt before removing the cylinder head.
- Before removal of the cylinder head, turn the flywheel so that the No. 1 cylinder is at top-dead-center (see page 6-21)
- Mark all emissions hoses before disconnecting them.

1. Disconnect the negative terminal from the battery.
2. Drain the cooling system.
3. Remove the air cleaner cover (Page 5-4).
4. Disconnect the air intake duct and vacuum hose (Page 5-6). (Coupe)
5. Remove the brake booster vacuum tube from the intake manifold.
6. Remove the engine secondary ground cable from the valve cover (Page 5-4).
7. Disconnect the electrical wires from the fuel cut-off solenoid valve, automatic choke and thermosensor.
8. Disconnect the hoses from the charcoal canister.
9. Disconnect the No. 1 control box emission hoses from the tubing manifold (Page 5-5).
10. On cars equipped with air conditioning, disconnect the idle control solenoid hoses.

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11. Disconnect the fuel lines (Page 5-5).

**WARNING** Do not smoke while working on fuel system. Keep open flame or spark away from work area.

12. Remove the spark plug caps from the spark plugs, then remove the distributor assembly (Page 5-5).
13. Disconnect the throttle cable and choke cable at the carburetor (Page 5-5).

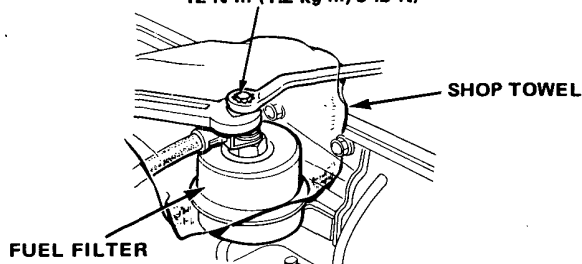
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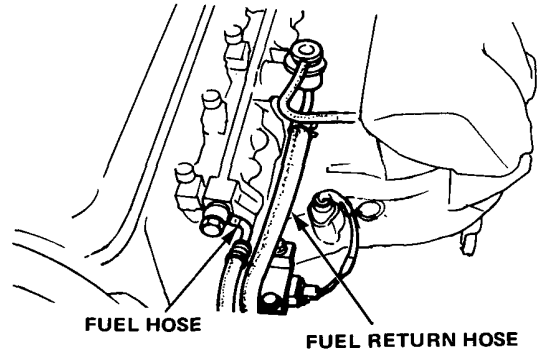
14. Relieve fuel pressure (Page 5-6).

**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.

**SERVICE BOLT**  
12 N·m (1.2 kg-m, 9 lb-ft)



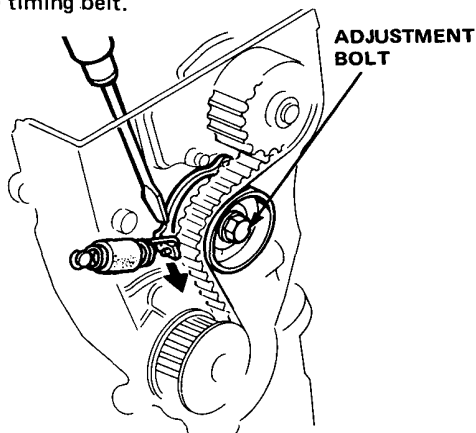
15. Disconnect the throttle cable at the throttle body (Page 5-6).
16. Disconnect the sub engine harness connectors (Page 5-7).
17. Disconnect the fuel hose and fuel return hose (Page 5-6).



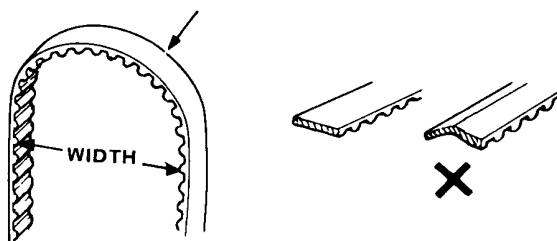
18. Disconnect the TA sensor connector.
19. Remove the injector holder from the intake manifold.
20. Disconnect the TW sensor connector from the cylinder head.
21. Disconnect the throttle sensor connector from the throttle body.
22. Remove the spark plug caps from the spark plugs, then remove the distributor assembly (Page 5-7).
23. Disconnect the upper radiator hose, heater inlet hose, and bypass inlet hose from the cylinder head (page 5-7).
24. Remove the hose between the thermostat housing and the intake manifold.
25. Remove the bolts attaching the exhaust manifold and bracket, then remove the manifold.
26. Remove the bolts attaching the intake manifold and bracket.
27. Disconnect the hose from the intake manifold to the breather chamber.
28. Remove the valve cover and the timing belt upper cover.



29. Loosen the tensioner adjustment 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.



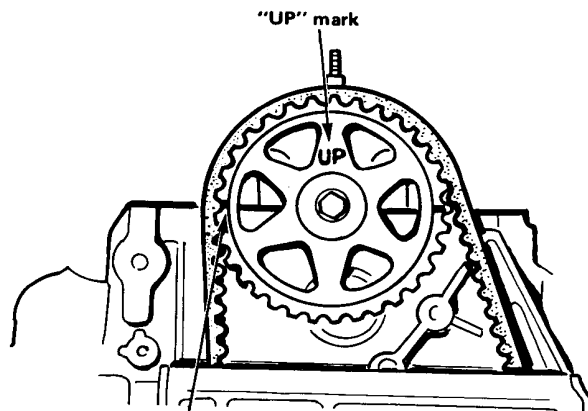
30. Remove the cylinder head bolts, then remove the cylinder head.

**CAUTION:** To prevent warpage, unscrew bolts 1/3 turn each time and repeat sequence until loose.

31. Remove the exhaust manifold from the cylinder head.

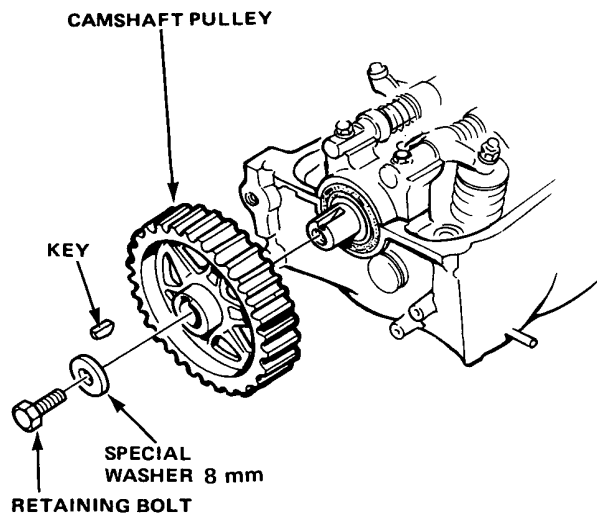
## Camshaft Pulley Removal

1. To ease reassembly, turn the pulley until the "UP" mark faces up, and the front timing mark is aligned with the valve cover surface.



Front timing mark on pulley aligned with the valve cover surface.

2. Remove the pulley retaining bolt and washer, then remove the pulley.



**NOTE:** Before removing rocker arm assembly, check camshaft end play.