

Intake Manifold: Service and Repair Removal

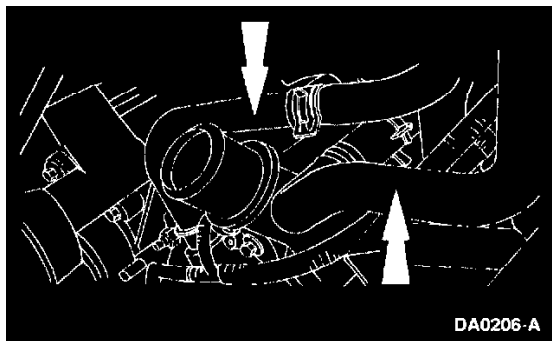
1. Remove the upper intake manifold.



2. Disconnect the EGR valve vacuum hose.

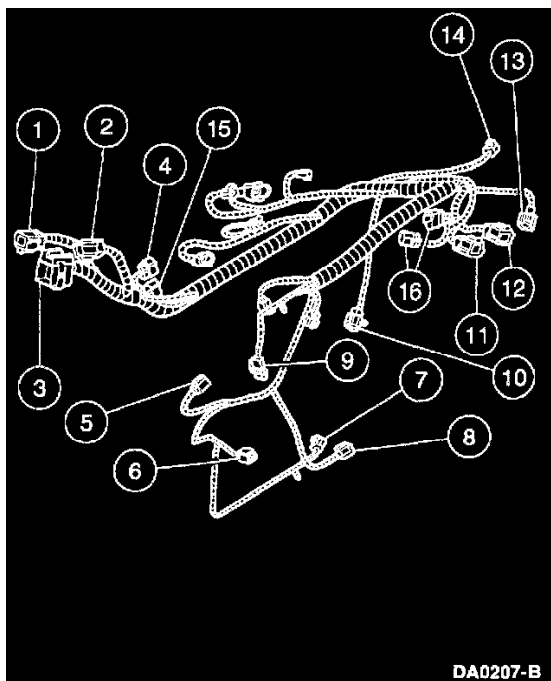


3. Remove the EGR valve tube upper fitting.
4. Remove the radiator upper hose from the lower intake manifold.



5. Disconnect the water bypass hose and the heater water hose.
6. Disconnect the fuel lines.

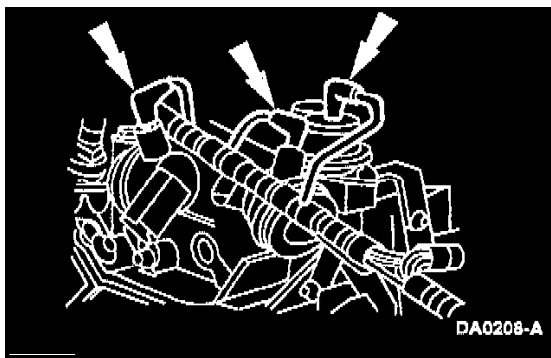
WARNING: DO NOT SMOKE OR CARRY LIGHTED TOBACCO OR OPEN FLAME OF ANY TYPE WHEN WORKING ON OR NEAR ANY FUEL-RELATED COMPONENTS. HIGHLY FLAMMABLE MIXTURES ARE ALWAYS PRESENT AND CAN BE IGNITED, RESULTING IN POSSIBLE PERSONAL INJURY.



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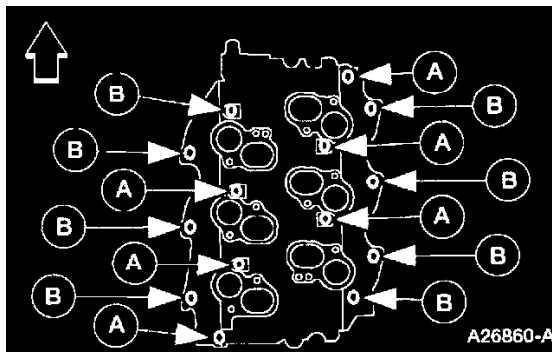
7. Disconnect the following electrical connectors:

- 1 16-pin
- 2 16-pin
- 3 42-pin
- 4 Delta PFE transducer
- 5 synchronizer
- 6 Crankshaft Position Sensor (**CKP sensor**)
- 7 knock sensor
- 8 oil pressure sensor
- 9 A/C compressor clutch
- 10 Heated Oxygen Sensor (**HOS**) (LH)
- 11 16-pin connector
- 12 16-pin connector
- 13 heated oxygen sensor (RH)
- 14 vapor management valve
- 15 Throttle Position Sensor (**TP sensor**)
- 16 Intake Manifold Runner Control (**IMRC**)



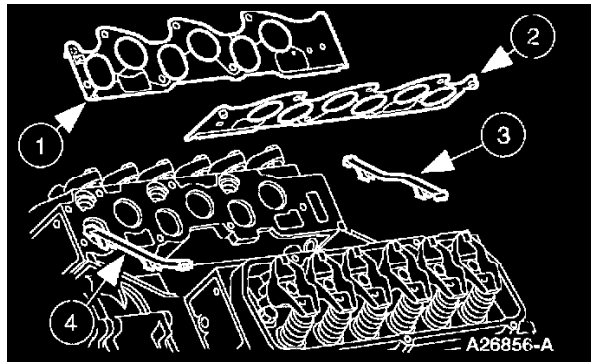
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8. Disconnect the vacuum lines at the fuel pressure regulator and intake manifold runner control (IMRC) motors. Remove the IMRC motors. Discard the IMRC linkage retainer clips.



9. Remove the six (A) long lower intake manifold bolts, eight (B) short lower intake manifold bolts and remove the lower intake manifold.

NOTE: The fuel charging components and engine wiring harness are removed with the lower intake manifold.



10. Remove and discard the lower intake manifold sealing components:

- 1 intake manifold gasket (LH).
- 2 intake manifold gasket (RH).
- 3 intake manifold rear end seal.
- 4 intake manifold front end seal.