REMOVAL AND INSTALLATION (Continued)

Upper Intake Manifold and Throttle Body

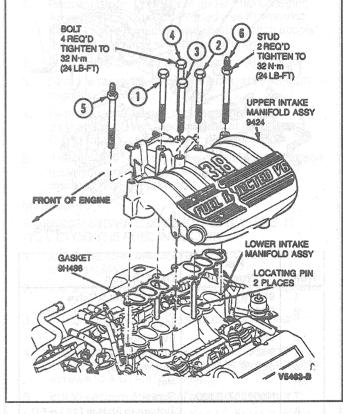
- Disconnect electrical connectors at idle air control (IAC) valve, throttle position sensor and EGR pressure valve sensor (9J460).
- Disconnect throttle linkage at throttle ball and transmission linkage from throttle body. Remove two bolts securing bracket to intake manifold and position bracket with cables out of way.
- Disconnect upper intake manifold vacuum fitting connections by disconnecting all vacuum lines to vacuum tree, vacuum lines to EGR valve and vacuum line to fuel pressure regulator.
- Disconnect PCV system by disconnecting hose from fitting on rear of upper intake manifold.
- Remove nut retaining EGR transducer to upper intake manifold.
- Loosen EGR tube at exhaust manifold and disconnect at EGR valve.
- Remove two bolts retaining EGR valve to upper intake manifold and remove EGR valve and EGR transducer as an assembly.
- 8. Remove six upper intake manifold retaining bolts.
- Remove two retaining bolts on front and rear edges of upper intake manifold where intake manifold supports (9J444) are located.
- Remove nut retaining generator bracket to upper intake manifold and two bolts retaining generator bracket to water pump and generator.
- 11. Remove upper intake manifold and throttle body as an assembly from lower intake manifold.

Installation

- Clean and inspect the mounting surfaces of the lower and upper intake manifolds.
- Position new gasket on lower intake manifold mounting surface. The use of alignment studs may be helpful.
- Install upper intake manifold and throttle bodyassembly to lower intake manifold. Ensure gasket remains in place (if alignment studs are not used).
- Install four center retaining bolts and two studs to upper intake manifold and tighten to 10 N·m (8 lb-ft). Repeat sequence in two steps: 20 N·m (15 lb-ft) and 32 N·m (24 lb-ft).
- 5. Install two bolts retaining intake manifold supports to upper intake manifold and tighten to 25 N·m (19 lb-ft).
- Position generator bracket and install two retaining bolts to water pump and generator. Install generator bracket to upper intake manifold retaining nut. Tighten to 25 N-m (19 lb-ft).
- Connect EGR valve to EGR tube making sure tube is properly seated in EGR valve. Connect EGR valve to upper intake manifold and tighten to 25 N·m (19 lb-ft).

- Connect PCV hose to rear of upper intake manifold.
- Connect vacuum lines to vacuum tree, EGR valve and fuel pressure regulator.
- Position throttle linkage bracket with cables to upper intake manifold. Install two retaining bolts and tighten to 17 N-m (13 lb-ft). Connect throttle cable and AXOD-E transaxle cable to throttle body.
- Connect electrical connectors at idle air control (IAC) valve, throttle position sensor and EGR pressure valve sensor.

NOTE: If lower intake manifold was removed, fill and bleed cooling system. Refer to Section 03-03.



Throttle Body

Removal

- Disconnect throttle position sensor and idle air control (IAC) valve connectors.
- 2. Remove four throttle body retaining nuts.
- Remove and discard air charge control to intake manifold gasket (9E936) between throttle body and upper intake manifold.

Installation

NOTE: If scraping is necessary, be careful not to damage gasket surfaces or allow material to drop into intake manifold.

1. Clean gasket mating surfaces.