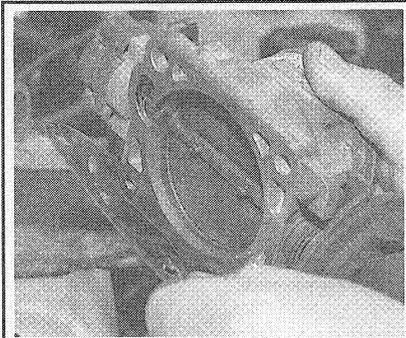


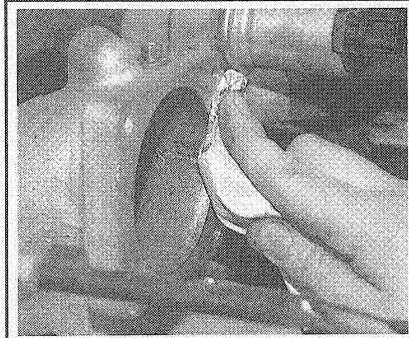
91195P06

Fig. 27 . . . remove the throttle body from the intake manifold



91195P07

Fig. 28 Remove and discard the gasket from the throttle body



91195P08

Fig. 29 Thoroughly clean the throttle body mating surfaces

3. Disconnect the throttle position sensor and throttle linkage at the throttle lever.
4. Remove the 4 throttle body mounting bolts.
5. Carefully separate the throttle body from the intake manifold adapter.
6. Remove and discard the gasket between the throttle body adapter.

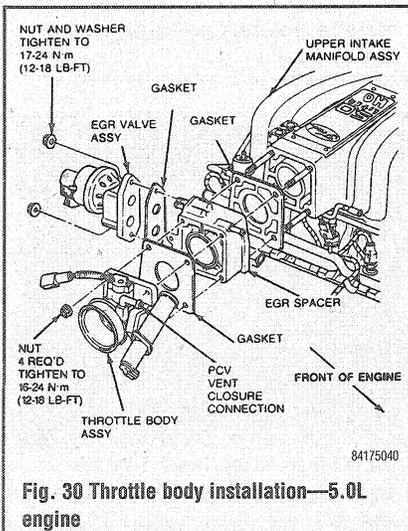
To install:

7. Clean all gasket mating surfaces, being careful not to damage them or allow material to drop into the manifold.
8. Install the throttle body, a new gasket and the 4 mounting bolts. Tighten the bolts to 6–8.5 ft. lbs. (8–11.5 Nm).
9. Connect the throttle position sensor and the throttle linkage.
10. Install the air cleaner outlet tube.
11. Connect the negative battery cable.

5.0L Engine

See Figure 30

1. Disconnect the negative battery cable.
2. Remove the air cleaner outlet tube from the throttle body.
3. Detach the throttle position sensor and idle air control valve connectors.
4. Remove the PCV vent closure hose at the throttle body.
5. Remove the 4 throttle body mounting nuts.



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Fig. 30 Throttle body installation—5.0L engine

6. Carefully separate the throttle body from the EGR spacer and intake manifold.
7. Remove and discard the gasket between the throttle body and EGR spacer.

To install:

8. Clean all gasket mating surfaces, being careful not to damage them or allow material to drop into the manifold.
9. Install the throttle body with a new gasket on the 4 studs of the EGR spacer. Install the nuts and tighten to 12–18 ft. lbs. (16–24 Nm).
10. Connect the PCV vent closure hose.
11. Connect the throttle position sensor and idle air control valve connectors.
12. Install the air cleaner outlet tube.
13. Connect the negative battery cable.

Fuel Rail and Fuel Injector(s)

REMOVAL & INSTALLATION

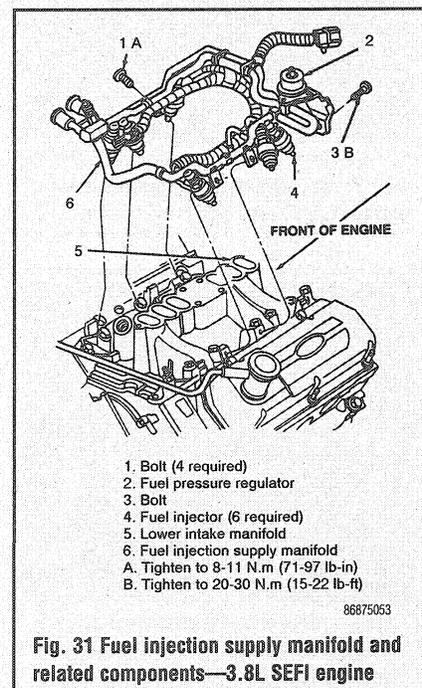
3.8L Engine

See Figures 31

1. Disconnect the negative battery cable.
2. Remove the fuel cap at the tank to release the fuel tank pressure.
3. Properly relieve the pressure from the fuel system. For details, please refer to the procedure located earlier in this section.
4. Remove the upper intake manifold and the fuel supply manifold as follows:
 - a. Disengage the electrical connectors at the air bypass valve, TP sensor, and EGR position sensor.
 - b. Disconnect the throttle linkage at the throttle ball and the transmission linkage from the throttle body. Remove the 2 bolts securing the bracket to the intake manifold and position the bracket with the cables aside.
 - c. Disconnect the upper intake manifold vacuum fitting connections by disconnecting all vacuum lines to the vacuum tree, EGR valve and pressure regulator.
 - d. Disconnect the PCV hose and remove the nut retaining the EGR transducer to the upper intake manifold.
 - e. Loosen the EGR tube at the exhaust manifold, then disconnect at the EGR valve.
 - f. Remove 2 bolts retaining the EGR valve to the upper intake manifold, then remove the EGR valve and EGR transducer as an assembly.

- g. Remove the 2 canister purge lines from the fittings on the throttle body, then remove the 6 upper intake manifold retaining bolts.

- h. Remove 2 retaining bolts on the front and rear edges of the upper intake manifold where the manifold support brackets are located.
- i. Remove the nut retaining the alternator bracket to the upper intake manifold and the 2 bolts retaining the alternator bracket to the water pump and alternator.
- j. Remove the upper intake manifold and throttle body as an assembly.
- k. Disconnect the fuel supply and return lines from the fuel rail assembly.
- l. Remove the fuel rail assembly retaining bolts, carefully disengage the fuel rail from the fuel injectors, and then remove the fuel rail.
5. Remove the injector retaining clips.
6. Remove the electrical connectors from the fuel injectors.
7. To remove the injector, pull it up while gently rocking it from side-to-side.
8. Inspect the injector O-rings, pintle protection cap (plastic hat) and washer for deterioration and replace, as required.



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Fig. 31 Fuel injection supply manifold and related components—3.8L SEFI engine