

Charge Temperature Sensor

The charge temperature sensor (CTS) is a device mounted on the intake manifold which measures the temperature of the incoming air. The sensor resistor in the CTS circuit supplies the logic module information on the temperature of the incoming air/fuel mixture. The CTS is the charge temperature sensor which provides information to the logic module concerning temperature and engine warm-up system operation. Sensor temperature values can be normal or reduced.

Throttle Body Temperature Sensor

The throttle body temperature sensor (TBS) is mounted in the throttle body. It provides logic module information on fuel temperature, allowing the logic module to provide the correct air/fuel ratio for hot mixtures.

Throttle Position Sensor (TPS)

The TPS is a variable resistor which is operated by the movement of the throttle shaft. It is mounted on the throttle body and senses the angle of the throttle plate assembly.

A voltage signal is produced by the sensor which varies with the angle. This signal is transmitted to the logic module where it is used to adjust air/fuel ratio during acceleration, deceleration, idle and wide open throttle conditions.

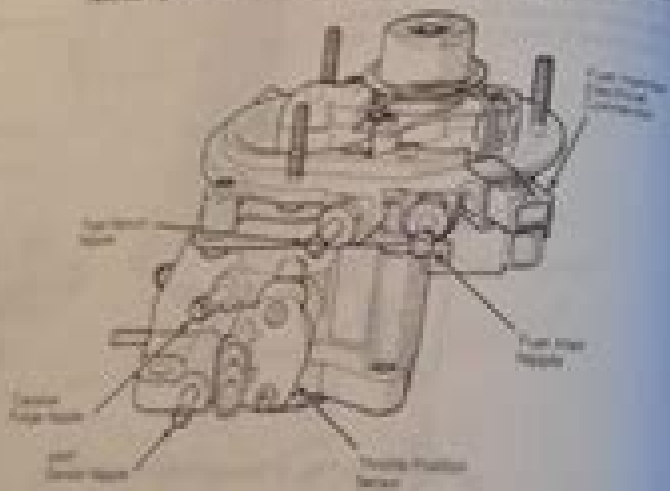


Fig. 6. Location of Throttle Position Sensor on Throttle Body

Engine Switches

Several switches provide operating information to the logic module. These include the oil pressure safety, air conditioning clutch, and brake light switches. If one or more of these switches is sensed as being in the "on" position, the logic module engages the Automatic Idle Speed Motor (AIM) to increase the speed to a specific RPM.

With the air conditioning on and the throttle blade above a specific angle, the wide open throttle circuit prevents the air conditioning clutch from engaging until the throttle blade angle is reduced.

FUEL CONTROL

Fuel Pump

An electric, constant-displacement, vane-type fuel pump is located in the fuel tank on an integral part of the fuel control assembly with a brake-type filter. The fuel pump provides the fuel pressure and flow needed for the fuel injectors.

Power to the fuel pump is supplied by the power module on the Automatic Shutdown (ASD) relay. The power module is supplied with an operating signal from the distributor. If the signal is not received, the ASD relay is not activated and power to the fuel pump is cut off.

Fuel Regulator

On two-valve models, the fuel regulator supplies fuel to the fuel injectors at a constant 60 psi (2.4 kg/cm²) pressure. On turbo models, the regulator supplies fuel to the fuel rail and to four injectors at a constant 60 psi (2.7 kg/cm²) pressure.

Fuel Injector

The fuel injector, an electrical solenoid, is mounted in the throttle body on non-turbo models and the fuel rail on the injector is directed into the existing air stream. On turbo models, 4 injectors are mounted on a fuel rail, supplying the intake manifold with the proper fuel supply.

While power to the injector is supplied by the power module, it is controlled by indirect signal from the logic module, which actually determines when and how long the injector is open. When electric current is supplied to the injector, an integral armature and pintle valve move a short distance against a spring, opening a small orifice.

Fuel supplied to the injector is forced around the pintle valve and through the opening, resulting in a fine spray of fuel in the shape of a hollow cone. Whereas a constant pressure drop is maintained across the injector (by the pressure regulator), the length of time that this opening is maintained (injector "on" time) determines the amount of fuel entering the engine and, therefore, the air/fuel ratio.

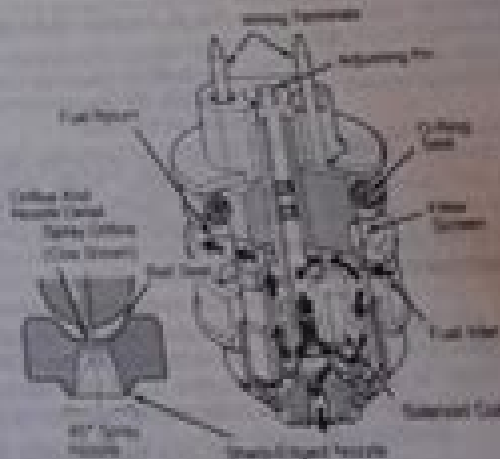


Fig. 7. Cross Sectional View of Throttle Body Fuel Injector

Computerized Engine Controls Basic Service Training Manual

JA Banks



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