

29 COMPUTERS AND SENSORS

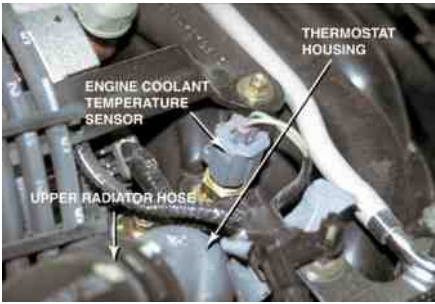
FIGURE 29.3 The powertrain control module (PCM) is located under the hood on this Chevrolet pickup truck.



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FIGURE 29.4 A typical engine coolant temperature (ECT) sensor. ECT sensors are located near the thermostat housing on most engines.



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FIGURE 29.5 The IAT sensor on this General Motors 3800 V-6 engine is in the air passage duct between the air cleaner housing and the throttle body.



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FIGURE 29.6 A typical TP sensor mounted on the throttle shaft on this port-injected engine.

THROTTLE BODY

THROTTLE POSITION SENSOR

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FIGURE 29.7 The MAP sensor uses three wires and is located on the intake manifold of the engine in most vehicles.

MAP SENSOR

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FIGURE 29.8 The mass airflow (MAF) sensor is located between the air filter housing and the engine, where it can measure all of the air entering the engine.

AIR FILTER HOUSING

MAF SENSOR

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