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Sensors Work :: EFI Explained by Matt @ M-Tech~~
~~Automotive~~ ECT Sensor Ground Circuit Engine Coolant
Temperature Sensor Signal

The signal from the coolant temperature sensor tells the engine's computer when to apply extra gasoline during a cold start. A faulty sensor can confuse the computer, keeping it from providing enough fuel. As a result, the engine may hesitate or stall. 3.

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Signs Your Engine Coolant Temperature (ECT) Sensor Is Bad

General description. The engine coolant temperature sensor is temperature-variable resistor, which usually has a negative temperature coefficient. It is a two-wire thermistor immersed in coolant and measures its temperature. The onboard computer uses the signal of ECT as the main correction factor when calculating the ignition advance and the injection duration.

Engine Coolant Temperature Sensor (ECT)

Alongside the signal that your engine is overheating, you may see your check engine light come on if your coolant

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temperature sensor is failing or has failed. If your car's computer senses a problem with the signal your sensor is sending, it may trigger the check engine light.

Symptoms Of Bad Coolant Temperature Sensors | AAMCO Colorado

The coolant temperature sensor, also known as the coolant temperature switch, is an engine management system sensor that is used to monitor the temperature of the engine's coolant. Most coolant...

Symptoms of a Bad or Failing Coolant Temperature Switch ...
An engine coolant temperature sensor or ECT sensor is a variable resistor that uses resistance to change a 5-volt

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reference signal from the PCM. The sensor's signal changes according to the engine's coolant temperature. It's a vital component for maintaining an engine's normal operating temperature.

Engine Coolant Temperature (ECT) Sensor

Once the coolant temperature sensor measures the temperature, it will send a signal to the on-board control system. This system gives a signal to the computer to keep or alter how the engine is functioning.

BAD COOLANT TEMP SENSOR SYMPTOMS: □ Everything You Need To ...

ECT (Engine Coolant Temperature) Sensor An ECT sensor,

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or Engine Coolant Temperature Sensor is a sensor that is screwed into the engine's block or cylinder head and is used to determine the temperature of the engine coolant. The ECT sensor is basically a thermistor that changes resistance with temperature.

ECT (Engine Coolant Temperature) Sensor

The readings produced from the coolant temperature sensor are transmitted to the engine control unit, where they are utilized as data for regulating and maintaining the proper ignition time and the optimal fuel injection through the computerized approach. It is usually placed on the right side of your vehicle adjacent to the radiator.

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Symptoms of a faulty Engine Coolant Temperature Sensor Standard® offers top-performing and durable coolant temperature that sensors are critical to many PCM functions.

Coolant Temperature Sensors | Standard
Engine Coolant Temperature (ECT) Sensor Signal Circuit
High Resistance Engine Coolant Temperature (ECT) Sensor
Wiring or Connectors Powertrain Control Module (PCM)
Sensor Ground Circuit High Resistance Thermostat Flow
chart - Set Condition: The ECT sensor voltage should only
change at a certain rate. If this rate is too slow or too fast, this
...

Flushing Coolant When Replacing Thermostat and

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Temperature ...

The coolant sensor detects the change in temperature and signals the Powertrain Control Module (PCM) so it can tell if the engine is cold, warming up, at normal operating temperature or overheating. The coolant sensor is extremely important because the sensor's input to the PCM affects the operating strategy of the entire engine management system.

Engine Coolant Sensors - AA1Car.com

If your coolant temperature sensor isn't working efficiently, your Check Engine Light usually warns you of the hazardous heat that's affecting your vehicle. A defective sensor can also produce black smoke from the exhaust pipe, since more gas is being used than necessary.

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Coolant Temperature Sensor - Best Prices for Engine ...

The engine temperature signal is used by the engine control module to adjust the air/fuel mixture and ignition timing. This original equipment engine coolant temperature sensor has been manufactured to fit your GM vehicle, providing the same performance, durability, and service life you expect from General Motors.

ACDelco Engine Coolant Temperature Sensor-213-4333 -
The ...

The coolant temperature sensor (switch) utilizes electrical resistance to measure the coolant's temperature. When the signal is sent to the ECM, the computer adjusts the vehicles

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ignition timing, fuel flow, and other factors that trim or enhance performance based on the coolant temperature.

How to Replace a Coolant Temperature Sensor | YourMechanic ...

The engine coolant temperature (ECT) sensor is one of the most important engine management sensors. Consequently, its readings play a key role in calculations which affect engine performance. The most common symptom that indicates a bad (ECT) sensor is; an engine control system that fails to go into closed loop once the engine is warm.

Engine Coolant Temperature (ECT) Sensor - Function ...

On most vehicles, the coolant temperature sensor (CTS) can

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be found somewhere near the engine thermostat, which allows it to function optimally. The tip of the CTS is probably located right next to the engine coolant. The sensor works by measuring the temperature that's being given off by the thermostat and/or the coolant itself.

How Does an Engine Coolant Temperature Sensor Work? - Meineke

The engine coolant temperature sensor measures the temperature of the engine coolant. This two-wire sensor is a thermistor that changes resistance with temperature. One wire carries the 5V reference signal from the PCM and the other is the ground wire. As the temperature of the engine coolant changes, the sensor's resistance changes on its

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ground signal to the PCM.

P0115 Code: Engine Coolant Temperature Sensor 1 Circuit

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The computer in every fuel-injected car must know two things before it can figure out the correct cold-start air/fuel mixture: the engine coolant temperature and the outside air temperature. Your symptoms are a dead ringer for a bad engine coolant temperature sensor (ECT). The computer is calculating an air/fuel mixture that is too lean.

Trouble Starting the Car? Replace the Coolant Temperature

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P0118 code definition. Engine Coolant Temperature (ECT)

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sensor circuit high open problem. What the P0118 code means. P0118 is the OBD-II generic code that indicates the Engine Control Module (ECM) has seen the ECT sensor output go more than 4.91 V or less than -40°C (-40°F).

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