SENSOR B CIRCUIT LOW			
		OVERVIEW	
Severity	:		High
DIY Difficulty Level	:		Advanced
Repair Cost	:	\$600-\$1500	
Can I Still Drive?	:	Yes	

What Does The P06AD Code Mean?

OBD-II trouble codes P06AB, P06AC, P06AD, and P06AEare associated with the internal temperature sensor "B" circuit of different modules. This circuit incorporates the Power Control Module (PCM), the Engine Control Module (ECM) and/or the Transmission Control Module (TCM). Refer to a vehicle specific repair guide to determine which is the "B" circuit in your particular case.

The purpose of the PCM/ECM/TCM internal temperature sensor "B" circuit is to monitor the temperature of various sensors housed within the control modules. Malfunctions are identified through the process of control module self-test failures. On some automobiles, the three modules are integrated into one consolidated unit, normally referred to as the PCM.

When the PCM, ECM or TCM detects an electrical signal that is lower than expected (outside normal range of operation) within the internal temperature sensor "B" circuit, code P06AD will be set and the check engine light or the transmission warning lamp will be illuminated.

What Are The Symptoms Of The P06AD Code?

Symptoms of a P06AD trouble code may include:

- Engine will not start
- Engine may stall



- Improper shifting
- Transmission warning lamp illuminated
- Check engine light illuminated

What Are The Potential Causes Of The P06AD Code?

Causes for this P06AD code may include:

- Corroded or damaged connector
- Loose or defective control module ground strap
- Faulty or damaged wiring
- Defective PCM, ECM, or TCM

How Can You Fix The P06AD Code?

The first step in the troubleshooting process for any malfunction is to research the Technical Service Bulletins (TSB's) for the specific vehicle by year, model and power plant. In some circumstances this can save a lot of time in the long run by pointing you in the right direction.

The second step is to locate all of the control modules within this circuit and perform a thorough visual inspection to check the associated wiring for obvious defects such as scraping, rubbing, bare wires, or burn spots. This process must also include ground straps and ground wires. Next is to check the connectors for security, corrosion and damaged pins. This process must include the PCM, ECM and the TCM based on the specific vehicle and the control module configuration. The specific tech data for the automobile will assist you with component location and the control module configuration.

Advanced Steps

The advanced steps become very vehicle specific and require the appropriate advanced equipment to perform accurately. These procedures require a digital multi meter and the specific technical references for the vehicle. Specific technical data will include troubleshooting charts and the appropriate sequence to follow assisting you with an accurate diagnosis.

Voltage Checks

Specific troubleshooting guidelines must be referenced to determine the voltage ranges required for the various control modules. These references will include the pin numbers and the voltage requirements that are associated with the PCM/ECM/TCM internal temperature sensor/circuit. Most, but not all control modules require a reference voltage of approximately 9 volts. Voltage requirements will vary based on the specific year and model of the vehicle.

If this process identifies the absence of a power source or ground, continuity testing may be



required to check the integrity of the wiring, connectors and other components. Continuity tests should always be performed with the power removed from the circuit and the normal readings for wiring and connections should be 0 ohms of resistance. Resistance or no continuity is an indication of faulty wiring that is open or shorted and must be repaired or replaced. A continuity test from the various control modules to the frame will confirm the serviceability level of ground straps and ground wires. The presents of resistance is an indication of a loose connection or possible corrosion.

Severity Description

The severity of this code can vary tremendously from just an illuminated check engine light or a transmission warning lamp on a vehicle that starts and runs to an automobile that will stall or not start at all. The code can be serious depending on the specific nature of the problem.

Reference Sources

P06AD PCM/ECM/TCM Internal Temperature Sensor B Circuit Low, OBD-Codes.

