

## CHEVROLET P1120: TP SENSOR 1 CIRCUIT MALFUNCTION

### OVERVIEW

Severity	:	<div><div>Medium</div></div>
DIY Difficulty Level	:	<div><div>Intermediate</div></div>
Repair Cost	:	\$200-\$600
Can I Still Drive?	:	<b>Yes</b> (Short-term only)

### What Does The Chevrolet P1120 Code Mean?

The throttle position (TP) sensor is mounted on the throttle body/TAC assembly. The sensor is actually two individual throttle position sensors within one housing. Two separate signal, ground and reference circuits are used in order to connect the TP sensor assembly and the throttle actuator control (TAC) module. The TP sensor signal voltage increases as the throttle opens. The signal circuit for TP Sensor is pulled up to reference voltage.

### What Are The Symptoms Of The Chevrolet P1120 Code?

Illuminated check engine light

### What Are The Potential Causes Of The Chevrolet P1120 Code?

Below are some potential causes of this DTC:

- TP1 sensor signal circuit is open, shorted to ground or to power
- TP1 sensor low reference circuit has high resistance condition
- TP1 sensor is damaged or has failed

## How Can You Fix The Chevrolet P1120 Code?

### Poor terminal connection

Inspect the harness connectors for backed out terminals, improper mating, broken locks, improperly formed or damaged terminals, and faulty terminal to wire connection. Use a corresponding mating terminal to test for proper tension.

### Damaged harness

Inspect the wiring harness for damage. If the harness appears to be OK, observe the display on the scan tool while moving connectors and wiring harnesses related to the sensor. A change in the display may indicate the location of the fault.

### Powertrain Control Module

Inspect the PCM and the engine grounds for clean and secure connections.

### Reference Sources

- [2000 Chevrolet Camaro and Pontiac Firebird Service Manual](#) - Volume 1, page 1069.
- GM, 2013, [Service Bulletin](#) - Prior To Any Circuit Testing.