

## CHRYSLER P1628: SENSOR REFERENCE VOLTAGE 2 CIRCUIT ERRATIC

### OVERVIEW

Severity	:	<div><div>Medium</div></div>
DIY Difficulty Level	:	<div><div>Intermediate</div></div>
Repair Cost	:	\$75-\$200
Can I Still Drive?	:	Yes

### What Does The Chrysler P1628 Code Mean?

The Powertrain Control Module (PCM) contains two internal 5-Volt Sensor Supply sources; Reference Voltage 1 and Reference Voltage 2. Each of these 5-Volt Supply sources are split internally into parallel circuits to provide a 5.0 volt reference to multiple three wire sensors. For self protection, if the 5-Volt Supply circuit is shorted to ground or if one of the sensors is internally shorted, the PCM will turn off the 5-Volt Supply circuit until the next ignition cycle.

### What Are The Potential Causes Of The Chrysler P1628 Code?

- 5-VOLT SUPPLY CIRCUIT INTERMITTENTLY SHORTED TO GROUND
- 5-VOLT SUPPLY CIRCUIT INTERMITTENTLY SHORTED TO VOLTAGE
- 5-VOLT SUPPLY CIRCUIT INTERMITTENTLY OPEN
- MAP SENSOR
- CAMSHAFT POSITION SENSOR
- CAMSHAFT POSITION SENSOR 2
- ACCELERATOR PEDAL POSITION (APP) SENSOR
- POWERTRAIN CONTROL MODULE (PCM)

### Reference Sources

[Chrysler P1628](#), DTCDECODE.