

CHEVROLET P1639: 5-VOLT REFERENCE 2 CIRCUIT MALFUNCTION

OVERVIEW

Severity	:	<div><div>Medium</div></div>
DIY Difficulty Level	:	<div><div>Intermediate</div></div>
Repair Cost	:	\$100-\$300
Can I Still Drive?	:	Yes (Short-term only)

What Does The Chevrolet P1639 Code Mean?

Key on or engine running; and the PCM detected the 5v Reference No. 2 circuit was out of range for 2 seconds. The 5v VREF 2 circuit connects to the A/C Refrigerant pressure sensor.

What Are The Potential Causes Of The Chevrolet P1639 Code?

- 5v VREF circuit is shorted to sensor ground or chassis ground
- 5v VREF circuit, A/C pressure sensor circuit is shorted to (B+)
- 5v VREF circuit shorted to A/C pressure sensor signal circuit
- A/C refrigerant pressure sensor is damaged or PCM has failed

Reference Sources

- [2000 Chevrolet Camaro and Pontiac Firebird Service Manual](#) - Volume 1, page 1395.
- GM, 2013, [Service Bulletin](#) - Prior To Any Circuit Testing.