

## CADILLAC 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

### What Does The Cadillac P1639 Code Mean?

Key on or engine running; and the PCM detected that the voltage range of the 5v VREF 2 circuit was out of tolerance for 10 seconds during the CCM continuous test. The 5v VREF 2 circuit connects to the A/C Pressure and Fuel Tank Pressure (FTP) sensor circuit.

### What Are The Potential Causes Of The Cadillac P1639 Code?

- ACP sensor VREF or FTP sensor VREF circuit is open, shorted to ground or to power
- A/C refrigerant pressure or the Fuel Tank pressure sensor is damaged or has failed
- PCM has failed

### Reference Sources

GM, 2013, [Service Bulletin - Prior To Any Circuit Testing](#).