

## CHEVROLET P1682: IGNITION 1 SWITCH CIRCUIT 2

### OVERVIEW

Severity	:	<div><div>High</div></div>
DIY Difficulty Level	:	<div><div>Intermediate</div></div>
Repair Cost	:	\$130-\$400
Can I Still Drive?	:	Yes (Short-term only)

### What Does The Chevrolet P1682 Code Mean?

The powertrain relay is commanded on. Ignition 1 Signal voltage is greater than 5.5 V. DTC P1682 runs continuously when the above conditions are met.

The ECM detects that the voltage level difference is greater than 3 V between the 2 ignition voltage circuits for less than 1 s.

### Reference Sources

- [Chevrolet Volt Hybrid DTC](#) - OBDG01 HYBRID Diagnostics Document, page 180.
- GM, 2013, [Service Bulletin](#) - Prior To Any Circuit Testing.
- GM, 2014, [Service Bulletin](#) - Intermittent Crank No Start With DTC P1682.
- GM, 2014, [Service Bulletin](#) - Service Engine Soon MIL With DTC P1682 - Battery Draw - No Start Due To Non-GM Accessories Aftermarket Product.
- GM, 2014, [Service Bulletin](#) - Diagnostic Tip - Service Engine Soon MIL With DTC P1682 - Battery Draw - No Start.
- GM, 2015, [Service Bulletin](#) - Intermittent Crank/No Start with DTC P1682 Set.
- GM, 2015, [Service Bulletin](#) - Floor Wet Under Carpet/Engine Continues to Run with Key Off/Possible No Crank/No Start/Communication Loss/Various Electrical Concerns (Seal Seam).
- GM, 2015, [Service Bulletin](#) - Intermittent Crank No Start With DTC P1682.