

CHEVROLET P1AF0: DRIVE MOTOR 1 CONTROL MODULE HYBRID BATTERY VOLTAGE SYSTEM ISOLATION LOST

OVERVIEW

Severity	:	High
DIY Difficulty Level	:	Advanced
Repair Cost	:	\$500-\$3500
Can I Still Drive?	:	No

What Does The Chevrolet P1AF0 Code Mean?

This code indicates that the ratio between Mid-Pack Voltage and hybrid battery high voltage is less than 0.27 or greater than 1.80 OR Mid-Pack Voltage is less than 35 V or greater than 975 V. Either above condition exists for 5 seconds.

Conditions for setting the DTC:

- The high voltage contactor relays are closed.
- High voltage is greater than 50 V. Ignition voltage is 8-18 V.
- DTCs [P1AEE](#), [P1AF4](#), and [P1AF5](#) are not set.

Reference Sources

- [Chevrolet Volt Hybrid DTC](#) - OBDG01 HYBRID Diagnostics Document, page 678.
- GM, 2013, [Service Bulletin](#) - Service Update for Inventory Vehicles Only Loss of Battery Charge – Inspect Generator Control Module.
- GM, 2013, [Service Bulletin](#) - Service Update for Inventory Vehicles Only Loss of Battery Charge – Inspect Generator Control Module.
- GM, 2013, [Service Bulletin](#) - Service Update for Inventory Vehicles Only Loss of Battery Charge – Inspect Generator Control Module.

- GM, 2013, [Service Bulletin](#) - Loss of Battery Charge – Inspect Generator Control Module.
- GM, 2019, [Service Bulletin](#) - PIC6285C Diagnostic Aid for DTCs P1AEE and P1AEF, Control Module Hybrid/EV Battery System Voltage High Voltage (Over-Voltage).
- GM, 2019, [Service Bulletin](#) - PIC6244D Diagnostic Aid For Vehicles All DTCs P1AEE P1AEF P1AF0 P1AF2 P1E22.