



GROUP
Electrical

MODEL
2011-2014MY
Optima Hybrid (TF HEV)

NUMBER
PS292

DATE
May 2014



TECHNICAL OPERATIONS

SUBJECT: DTC P1B70/P1B74/ P1B96 - HIGH VOLTAGE BATTERY
SENSOR CIRCUIT FAULT

When addressing a customer complaint related to a battery warning lamp illuminated in the dash and drivability issues, access GDS to check for any active DTC(s). Also, review the **BMS > Current Data** to inspect for one or more HEV battery cells showing one (1) volt, or more, lower than the than rest of the cells (see below). Duplicating this condition may not be possible when viewing in Ready Mode. If so, test drive the vehicle with a flight recorder to capture the event in city driving conditions. Send all supporting information to Techline for documentation of condition and further diagnosis.

The screenshot shows the GDS software interface with the 'Current Data' window open. The window displays a table of battery cell voltages. The following table represents the data shown in the screenshot:

Sensor Name	Value	Unit
Battery Cell Voltage 10	3.82	V
Battery Cell Voltage 11	3.82	V
Battery Cell Voltage 12	3.82	V
Battery Cell Voltage 13	3.82	V
Battery Cell Voltage 14	3.82	V
Battery Cell Voltage 15	3.82	V
Battery Cell Voltage 16	3.82	V
Battery Cell Voltage 17	3.82	V
Battery Cell Voltage 18	3.82	V
Battery Cell Voltage 19	3.82	V
Battery Cell Voltage 20	3.82	V
Battery Cell Voltage 21	3.82	V
Battery Cell Voltage 22	3.80	V
Battery Cell Voltage 23	3.82	V
Battery Cell Voltage 24	3.82	V
Battery Cell Voltage 25	3.82	V
Battery Cell Voltage 26	3.82	V
Battery Cell Voltage 27	3.82	V
Battery Cell Voltage 28	2.82	V
Battery Cell Voltage 29	3.82	V
Battery Cell Voltage 30	3.82	V
Battery Cell Voltage 31	3.82	V
Battery Cell Voltage 32	3.82	V