



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.

Sensor Name	Value	Unit
<input type="checkbox"/> Battery Cell Voltage 10	3.82	V
<input type="checkbox"/> Battery Cell Voltage 11	3.82	V
<input type="checkbox"/> Battery Cell Voltage 12	3.82	V
<input type="checkbox"/> Battery Cell Voltage 13	3.82	V
<input type="checkbox"/> Battery Cell Voltage 14	3.82	V
<input type="checkbox"/> Battery Cell Voltage 15	3.82	V
<input type="checkbox"/> Battery Cell Voltage 16	3.82	V
<input type="checkbox"/> Battery Cell Voltage 17	3.82	V
<input type="checkbox"/> Battery Cell Voltage 18	3.82	V
<input type="checkbox"/> Battery Cell Voltage 19	3.82	V
<input type="checkbox"/> Battery Cell Voltage 20	3.82	V
<input type="checkbox"/> Battery Cell Voltage 21	3.82	V
<input type="checkbox"/> Battery Cell Voltage 22	3.80	V
<input type="checkbox"/> Battery Cell Voltage 23	3.82	V
<input type="checkbox"/> Battery Cell Voltage 24	3.82	V
<input type="checkbox"/> Battery Cell Voltage 25	3.82	V
<input type="checkbox"/> Battery Cell Voltage 26	3.82	V
<input type="checkbox"/> Battery Cell Voltage 27	3.82	V
<input type="checkbox"/> <b>Battery Cell Voltage 28</b>	<b>2.82</b>	<b>V</b>
<input type="checkbox"/> Battery Cell Voltage 29	3.82	V
<input type="checkbox"/> Battery Cell Voltage 30	3.82	V
<input type="checkbox"/> Battery Cell Voltage 31	3.82	V
<input type="checkbox"/> Battery Cell Voltage 32	3.82	V