

CADILLAC P1B10: DRIVE MOTOR 2 POSITION LEARN INCORRECT

OVERVIEW

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

What Does The Cadillac P1B10 Code Mean?

Condition 1, 2, 3 and 4 Hybrid wake-up signal is not active because the ignition has been transitioned from RUN to OFF. The motor control module has learned a valid drive motor position sensor offset value at least once.

- Condition 1: Position sensor offset value not learned because drive motor speed is greater than 50 RPM.
- Condition 2: Position sensor offset value not learned because hybrid battery voltage as observed at the motor control module is less than 192V.
- Condition 3: Position sensor offset value not learned because drive motor phase to phase current difference is less than 15 A.
- Condition 4: Position sensor offset value not learned because the offset learn value is greater than the maximum allowed offset of 25 degrees.

Reference Sources

- GM, 2014, [Service Bulletin](#) - (EREV) Intermittent MIL With DTC P0AB9.
- GM, 2014, [Service Bulletin](#) - (EREV) Diagnostic Tips for Intermittent MIL With DTC P0AB9.
- GM, 2014, [Service Bulletin](#) - (EREV) Diagnostic Tips for Intermittent MIL With DTC P0AB9.
- GM, 2019, [Service Bulletin](#) - PIP5202B (EREV) Diagnostic Tips for Intermittent MIL With DTC P0AB9.

- GM, 2020, [Service Bulletin](#) - PIP5202C (EREV) Diagnostic Tips for Intermittent MIL With DTC P0AB9.