

GENERIC · POWERTRAIN

P0B25

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0B25

Hybrid/EV Battery A Voltage Low

P0B25 indicates that the hybrid or electric vehicle battery control module has detected an abnormally low voltage on battery pack 'A', which is typically the main high-voltage traction battery. The computer compares the measured pack voltage against expected values and sets this code when the reading falls below the calibrated threshold for a specified time.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	High	Professional	Hybrid propulsion

Symptoms you may notice

- Illumination of the hybrid system warning light or service vehicle soon message
- Reduced electric-only range or the engine running more frequently than usual
- A noticeable drop in acceleration or power output, especially under load
- The vehicle may enter a fail-safe mode that limits speed or disables hybrid operation
- Often no symptoms besides the warning light, particularly if the voltage drop is intermittent
- In some cases, the vehicle may refuse to start or shift into gear

Common causes, most likely first

- 1 A weak or failing cell or module within the high-voltage battery pack
- 2 Poor electrical connection at the battery pack terminals or intermodule bus bars
- 3 A faulty battery pack voltage sensor or wiring harness
- 4 Degradation of the battery pack due to age, heat, or repeated deep discharges
- 5 An issue with the battery energy control module (BECM) or its power supply
- 6 Extreme cold temperatures temporarily reducing battery voltage
- 7 A parasitic draw that leaves the pack at a low state of charge



How to diagnose and fix it

- 1 Use a scan tool to retrieve all stored codes and freeze-frame data, then verify the battery pack voltage with a high-voltage meter if safe and qualified
- 2 Inspect the low-voltage battery and charging system, as a weak 12V battery can cause false low-voltage readings
- 3 Check the high-voltage battery pack terminals and intermodule connections for corrosion, looseness, or damage
- 4 Perform a battery pack state-of-health test using the manufacturer's diagnostic software to identify weak modules
- 5 Test the battery pack voltage sensor and its wiring for continuity and correct reference voltage
- 6 If a weak module is confirmed, replace the affected module or the entire pack according to manufacturer procedures
- 7 Clear the codes and perform a battery pack relearn or calibration drive cycle as required

What a low pack voltage reading really means

- A low voltage code often originates from a single weak cell or module rather than the entire pack, so module-level testing is critical before condemning the whole battery.
- Corroded or loose intermodule bus bars can create resistance that mimics a failing cell, and tightening or cleaning them may resolve the code without parts replacement.
- The battery energy control module may set this code due to a faulty voltage sensor even when the pack is healthy, so always verify actual voltage with a calibrated meter.
- Cold weather can temporarily lower pack voltage enough to trigger this code, and the light may clear once the battery warms up, but repeated occurrences indicate a real issue.
- A weak 12-volt auxiliary battery can cause erratic behavior in the hybrid control system and set false low-voltage codes, so always load-test the 12V battery first.

Can I keep driving with P0B25?

Do not continue driving with this code if the hybrid system warning is active or the vehicle is in fail-safe mode, as a failing high-voltage battery can leave you stranded or cause further damage. If the light is on but the vehicle drives normally, limit driving to reach a qualified repair facility and avoid heavy acceleration or long trips.



Tools that help

- Hybrid/EV-capable scan tool with manufacturer-specific software
- High-voltage digital multimeter (CAT III or CAT IV rated)
- Insulation tester (megohmmeter) for high-voltage cable checks
- Battery pack module tester or conductance tester
- Personal protective equipment (insulated gloves, safety glasses)
- Service information for high-voltage system disable procedures

Reading P0B25

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
B	Hybrid propulsion.
25	The exact fault within that area.

Often seen with

P0A7F Hybrid/EV Battery Pack Deterioration · **P0AFA** Hybrid/EV Battery System Voltage Low · **P0B24** Hybrid/EV Battery A Voltage Unstable · **P0B26** Hybrid/EV Battery A Voltage High · **P0B27** Hybrid/EV Battery B Voltage

See it working

Watch the animated explainer [How Regenerative Braking Works in Electric Cars](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0b25/>

