

GENERIC · POWERTRAIN

P0B14

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0B14

Hybrid/EV Battery Pack Voltage Sense B Circuit

P0B14 indicates that the hybrid or electric vehicle battery pack voltage sensing circuit B is reporting a voltage outside the expected range or is otherwise implausible to the battery energy control module. The computer has detected a fault in the dedicated wiring, connector, or sensing hardware that monitors a specific section of the high-voltage battery, which prevents accurate state-of-charge and cell balancing calculations.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Professional

AREA

Hybrid propulsion

Symptoms you may notice

- Illumination of the hybrid system warning light or service vehicle soon message
- Often no symptoms besides the warning light, especially if the fault is intermittent
- Reduced electric-only range or the engine running more frequently than normal
- The vehicle may enter a fail-safe mode with limited power or disabled hybrid functions
- Inconsistent state-of-charge readings on the dashboard gauge
- Possible refusal to start or engage the high-voltage system after the fault sets

Common causes, most likely first

- 1 Corroded, loose, or damaged electrical connector at the voltage sense harness or battery pack interface
- 2 Open or shorted voltage sense wire between the battery pack and the control module
- 3 Faulty voltage sense circuit board or sensing harness internal to the battery pack
- 4 Failed battery energy control module or hybrid control module
- 5 Internal battery pack fault such as a weak module or cell affecting the sensed voltage
- 6 Water intrusion or contamination in the battery pack connector area
- 7 Aftermarket accessories or improper previous repairs disturbing the sense wiring



How to diagnose and fix it

- 1 Inspect and clean the voltage sense connector and harness at the battery pack for corrosion or damage
- 2 Check the voltage sense circuit wiring for continuity, shorts to ground, and shorts to voltage using a multimeter
- 3 Verify the battery pack voltage at the sense terminals and compare with the scan tool data to confirm the discrepancy
- 4 Perform a visual inspection of the battery pack for signs of coolant leaks, water intrusion, or physical damage
- 5 Follow the manufacturer's diagnostic flow chart for circuit B, which may include a resistance check of the sense harness
- 6 If the circuit is intact, test or replace the battery energy control module or the internal sense harness as directed by service information
- 7 Clear the code and perform a road test or hybrid system self-test to confirm the repair and ensure the code does not return

What the voltage sense circuit really monitors

- This code often sets intermittently due to a poor connector pin tension that only acts up under vibration or temperature swings, so a wiggle test of the harness while watching live data is essential.
- A voltage sense fault can be caused by a failing 12-volt auxiliary battery on some hybrids, which corrupts the control module's reference voltage and sets false sense codes.
- Technicians sometimes replace the entire battery pack when the actual fault is a chafed sense wire behind the pack, so always trace the circuit before condemning the pack.
- The sense circuit B monitors a specific group of cells, and a single weak module can pull the sensed voltage out of range without setting a performance code for that module.
- After any repair involving the high-voltage battery, the code may remain stored until the battery control module completes a full self-test cycle, which can require a key-off sleep period.

Can I keep driving with P0B14?

The vehicle may remain drivable in a reduced-power mode, but continued driving risks a sudden loss of hybrid assistance or a no-start condition. Avoid long trips and high-load driving until the fault is diagnosed, and do not attempt to service the high-voltage battery without proper training and personal protective equipment.

Tools that help

- Hybrid/EV-capable scan tool with live data and battery pack voltage PIDs
- Digital multimeter with high-voltage rated probes
- Insulation tester or megohmmeter for high-voltage circuit checks
- Manufacturer service information and wiring diagrams
- Personal protective equipment including high-voltage gloves and safety glasses



Reading P0B14

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

Often seen with

P0A1F Battery Energy Control Module A Performance · **P0AFA** Hybrid/EV Battery System Voltage Low · **P0B13** Hybrid/EV Battery Pack Current Sensor A/B Correlation · **P0B15** Hybrid/EV Battery Pack Voltage Sense B Circuit Range/Perform · **P0B16** Hybrid/EV Battery Pack Voltage Sense B Circuit Low

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/p0b14/>

