

GENERIC · POWERTRAIN

P0B95

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0B95

Hybrid/EV Battery Voltage Sense S Circuit

P0B95 indicates that the hybrid or electric vehicle battery control module has detected an abnormal voltage reading on the voltage sense circuit for battery module group S. The computer compares this signal against expected values and flags the circuit when the reading falls outside the acceptable range, which can affect how the battery pack is managed.

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
- Reduced electric-only driving range or the vehicle refusing to enter EV mode
- A sudden drop in state of charge or inconsistent battery gauge readings
- The internal combustion engine starting more frequently than usual in a hybrid
- Often no symptoms besides the warning light, especially if the fault is intermittent

Common causes, most likely first

- 1 Damaged or chafed wiring in the voltage sense circuit for module group S
- 2 Corroded or loose electrical connector at the battery module or control module
- 3 Faulty voltage sense harness or a broken wire within the battery pack
- 4 Internal failure of the battery control module or voltage sensing circuitry
- 5 A failing battery module that produces an erratic voltage signal
- 6 High-resistance connection due to moisture intrusion or contamination

How to diagnose and fix it

- 1 Connect a scan tool and record all hybrid battery-related freeze-frame and live data to confirm the fault is current
- 2 Visually inspect the voltage sense wiring and connectors at the battery module group S for damage, corrosion, or looseness
- 3 Perform a voltage drop test on the sense circuit while wiggling the harness to check for intermittent opens
- 4 Compare the reported module group S voltage against a known-good module group using the scan tool to isolate the circuit
- 5 Repair or replace any damaged wiring, terminals, or connectors in the sense circuit
- 6 If the circuit tests good, follow the manufacturer's diagnostic flow for testing the battery control module and module group S
- 7 Clear the code and perform a road test to verify the repair and ensure the code does not return



Voltage sense faults that fool technicians

- A loose ground connection at the battery pack can cause a voltage sense code for a module group that is actually healthy, so always check grounds before condemning a module.
- Intermittent P0B95 codes often appear only under specific vibration or temperature conditions, making a wiggle test of the harness more valuable than a static resistance check.
- The voltage sense circuit carries very low current, so a small amount of corrosion or a partially pushed terminal can set the code without any visible damage.
- Some vehicles will set P0B95 as a history code after a low-voltage event such as a jump start, and it may not indicate a real circuit fault if it does not return after clearing.
- Replacing a battery module without first verifying the sense circuit can lead to a repeat failure, because the new module will report through the same faulty wiring.

Can I keep driving with P0B95?

You can usually continue driving to a repair shop, but avoid heavy acceleration, prolonged EV mode use, or deep discharges until the fault is repaired. If the hybrid system warning light flashes or the vehicle enters limp mode, stop driving and seek professional service.

Tools that help

- Hybrid-capable scan tool with live data and graphing
- Digital multimeter with min/max recording
- Insulated hand tools and personal protective equipment for hybrid high-voltage safety
- Wiring diagram and connector pinout for the specific vehicle
- Back probe kit and terminal test leads

Reading P0B95

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

Often seen with

P0A1F Battery Energy Control Module A Performance · **P0AFA** Hybrid/EV Battery System Voltage Low · **P0B93** Hybrid/EV Battery Voltage Sense R Circuit High · **P0B94** Hybrid/EV Battery Voltage Sense R Circuit Intermittent/Errat · **P0B96** Hybrid/EV Battery Voltage Sense S Circuit Range/Performance



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/p0b95/>

