

GENERIC · POWERTRAIN

P0E88

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0E88

Battery Charger B Voltage Sensor Circuit High

P0E88 indicates that the powertrain control module has detected an abnormally high voltage signal from the battery charger B voltage sensor circuit. This sensor monitors the output of a dedicated charger, often part of the high-voltage battery charging system on electrified vehicles, and the code sets when the signal exceeds the expected range for a calibrated time.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Professional

AREA

Hybrid propulsion

Symptoms you may notice

- Illumination of the check engine light or service vehicle soon message
- Often no symptoms besides the warning light
- Reduced or disabled battery charging function
- Vehicle may enter a reduced power or limp mode
- Failure to start or charge the high-voltage battery
- Inaccurate state-of-charge or range display

Common causes, most likely first

- 1 Faulty battery charger B voltage sensor
- 2 Damaged or corroded wiring harness or connector at the sensor
- 3 Open or high-resistance ground circuit for the sensor
- 4 Short to voltage on the sensor signal circuit
- 5 Failed battery charger control module
- 6 Software error in the powertrain control module requiring reprogramming



How to diagnose and fix it

- 1 Use a scan tool to retrieve all stored codes and freeze-frame data, then clear codes and verify if P0E88 returns
- 2 Visually inspect the battery charger B voltage sensor and its connector for damage, corrosion, or loose pins
- 3 Measure reference voltage and ground at the sensor connector with a digital multimeter and compare to manufacturer specifications
- 4 Check the sensor signal circuit for a short to voltage or an open circuit using a wiring diagram
- 5 Test the sensor itself by backprobing the signal wire and comparing voltage output to a known good value or manufacturer procedure
- 6 If the sensor and wiring are good, follow the diagnostic flow chart for the charger control module or PCM, including software updates

What the charger B sensor code hides

- A high voltage signal often results from a poor ground connection rather than a failed sensor, so always verify ground integrity before replacing parts.
- On many electrified vehicles, the battery charger B voltage sensor is integrated into the charger assembly and cannot be serviced separately, requiring charger replacement.
- This code can be set by a low 12-volt battery or charging system issue that causes erratic module behavior, so check the auxiliary battery first.
- Intermittent faults may only appear during charging or under specific temperature conditions, so a road test with live data monitoring is essential.
- Do not confuse this code with P0E87 or P0E89, which indicate low voltage or intermittent signal faults in the same circuit.

Can I keep driving with P0E88?

If the vehicle drives normally and only the warning light is on, you can continue driving short distances, but avoid long trips or relying on the charging system until diagnosed. If the vehicle enters limp mode or charging is disabled, stop driving and seek professional service.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Wiring diagram for the specific vehicle
- Backprobe pins or breakout box
- Insulated hand tools



Reading P0E88

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

Often seen with

P0A0D High Voltage System Interlock Circuit A High · **P0A1F** Battery Energy Control Module A Performance · **P0E86** Battery Charger B Voltage Sensor Circuit Range/Performance · **P0E87** Battery Charger B Voltage Sensor Circuit Low · **P0E89** Battery Charger B Voltage Sensor Circuit Intermittent/Errati

See it working

Watch the animated explainer [How a Radiator Fan Relay Circuit Works](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0e88/>

