

GENERIC · POWERTRAIN

P0E8A

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0E8A

Battery Charger B Current Sensor Circuit

P0E8A indicates that the powertrain control module has detected an abnormal signal from the current sensor that monitors the auxiliary battery charger circuit, specifically for charger B. The computer compares the sensor's reported current against expected values and flags this code when the signal falls outside a valid range or is inconsistent with other charging system data.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Intermediate	Hybrid propulsion

Symptoms you may notice

- Illumination of the check engine light or service vehicle soon message
- Often no symptoms besides the warning light, especially if the charging system still functions normally
- Auxiliary battery may not charge properly, leading to reduced performance of accessories powered by that battery
- Possible electrical faults such as dimming lights or intermittent operation of voltage-sensitive equipment
- In some cases, the vehicle may enter a reduced power mode or disable certain non-essential electrical features

Common causes, most likely first

- Faulty current sensor integrated into the battery charger B circuit
- Damaged or corroded wiring and connectors between the sensor and the control module
- Poor ground connection for the current sensor or charging circuit
- Internal failure of the auxiliary battery charger module
- Software or calibration issue in the control module affecting signal interpretation
- A weak or failing auxiliary battery causing abnormal current draw
- Aftermarket electrical accessories improperly wired into the charging circuit



How to diagnose and fix it

- 1 Use a scan tool to retrieve all stored codes and freeze-frame data, then clear the code and test-drive to see if it returns
- 2 Visually inspect the current sensor, its wiring, and connectors for damage, corrosion, or loose pins
- 3 Measure resistance and voltage drop across the sensor circuit to check for opens or shorts
- 4 Verify the auxiliary battery's state of health and charging voltage with a digital multimeter
- 5 Check for technical service bulletins or software updates for the control module related to this code
- 6 If the sensor signal is confirmed out of range, replace the current sensor and retest the system
- 7 As a last step, diagnose the charger module or control module for internal faults if all external circuits test good

What the current sensor code really means

- A common mistake is replacing the battery charger module when the actual fault is a chafed wire near the sensor, so always perform a thorough circuit test first.
- The current sensor often shares a ground with other sensors, and a single bad ground can set multiple codes that mislead diagnosis.
- This code can be set by a weak auxiliary battery that causes the charger to draw excessive current, so load-test the battery before condemning the sensor.
- On some vehicles, the current sensor is part of the negative battery cable assembly, and replacing just the sensor may not be possible without the whole cable.
- Intermittent code setting can be caused by water intrusion into the sensor connector, especially on vehicles with underhood fuse boxes near the battery.

Can I keep driving with P0E8A?

You can generally continue driving if the only symptom is the warning light and the vehicle runs normally, but avoid long trips or heavy electrical loads until the fault is repaired. If the auxiliary battery is not charging, accessories may fail, and prolonged driving could lead to a no-start condition.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Battery load tester
- Wiring diagram for the charging circuit
- Basic hand tools for connector and sensor access



Reading P0E8A

- P** Powertrain: engine, transmission and emissions.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- E** Hybrid propulsion.
- 8A** The exact fault within that area.

Often seen with

P0562 System Voltage Low · **P0563** System Voltage High · **P0E89** Battery Charger B Voltage Sensor Circuit Intermittent/Errati · **P0E8B** Battery Charger B Current Sensor Circuit Range/Performance · **U0111** Lost Communication With Battery Energy Control Module 'A'

See it working

Watch the animated explainer [Inline-Four Engine X-Ray: Firing Order 1-3-4-2](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0e8a/>

