

GENERIC · POWERTRAIN

P0E8E

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0E8E

Battery Charger B Current Sensor Circuit Intermittent/Erratic

P0E8E indicates that the powertrain control module has detected an intermittent or erratic signal from the current sensor that monitors the battery charger's output. The sensor's feedback is used to regulate charging current, so a fluctuating signal prevents the module from accurately controlling the charger.

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
- Inconsistent or slow battery charging, especially noticeable on plug-in hybrid models
- A battery warning light may appear if the charger cannot maintain the auxiliary battery
- Reduced electric-only range or longer charging times on plug-in hybrids
- Possible electrical accessories behaving erratically if system voltage fluctuates

Common causes, most likely first

- 1 Loose, corroded, or damaged wiring or connector pins at the current sensor or charger
- 2 Faulty current sensor internal electronics causing an erratic signal
- 3 Poor ground connection for the charger or sensor circuit
- 4 Water intrusion or corrosion in the sensor or charger connector
- 5 Failing battery charger module producing unstable current
- 6 Software glitch in the powertrain control module affecting signal interpretation

How to diagnose and fix it

- 1 Inspect and clean the current sensor connector and charger wiring for corrosion or looseness
- 2 Check the sensor ground circuit for continuity and secure attachment
- 3 Measure the sensor signal with a multimeter or oscilloscope to confirm erratic output
- 4 Compare live sensor data on a scan tool with actual charging current to verify the fault
- 5 Replace the current sensor if its signal is confirmed erratic
- 6 Reprogram or update the powertrain control module if a known software issue exists
- 7 Replace the battery charger module if it is the source of unstable current



When the sensor is not the culprit

- A loose ground or corroded connector pin often mimics a failed current sensor, so always perform a voltage drop test before replacing parts.
- The code can set intermittently due to vibration or temperature changes, making it difficult to reproduce during a short test drive.
- On some vehicles, a weak auxiliary battery can cause voltage fluctuations that confuse the charger current sensor and set this code.
- Aftermarket electrical accessories wired into the charging circuit can introduce noise that the sensor interprets as erratic current.
- Clearing the code without addressing the underlying connection issue often leads to a quick return of the fault.

Can I keep driving with P0E8E?

The vehicle is generally safe to drive because the fault affects charging regulation rather than immediate safety systems, but avoid long trips that rely heavily on charging and address the issue promptly to prevent battery drain or charger damage.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Oscilloscope for signal analysis
- Electrical contact cleaner and dielectric grease
- Basic hand tools for connector and panel access

Reading P0E8E

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

Often seen with

P0A0D High Voltage System Interlock Circuit A High · **P0A0E** High Voltage System Interlock Circuit A Intermittent · **P0E8D** Battery Charger B Current Sensor Circuit High · **P0E8F** Drive Motor A Inverter Voltage Sensor B Circuit · **P0E90** Drive Motor A Inverter Voltage Sensor B Circuit Range/Perfor



See it working

Watch the animated explainer [How an EGR Valve Works: Exhaust Gas Recirculation](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0e8e/>

