

GENERIC · POWERTRAIN

P0EE9

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0EE9

Battery Charger Coupler Temperature Sensor B Circuit Range/Performance

P0EE9 indicates that the battery charger coupler temperature sensor B circuit has reported a range or performance fault, meaning the voltage signal from that sensor is outside the expected operating window or is not changing as the control module expects. The computer monitors this circuit to protect the charging coupler from overheating, and it sets the code when the sensor's output is implausible for the current conditions.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

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
- Charging system may default to a reduced power or conservative charging mode
- Intermittent charging interruption or failure to initiate a charge session
- A message on the dash indicating a charging system fault or reduced charging performance
- Possible overheating of the charge coupler if the sensor is under-reporting temperature

Common causes, most likely first

- 1 Faulty battery charger coupler temperature sensor B
- 2 Damaged or corroded wiring or connector at the charge coupler
- 3 Open or short circuit in the sensor signal or return circuit
- 4 Poor electrical connection at the charge port assembly
- 5 Water intrusion or contamination in the charge coupler connector
- 6 Failed or software-glitched charging control module
- 7 Aftermarket charging equipment that does not communicate correctly with the vehicle



How to diagnose and fix it

- 1 Inspect the charge coupler and its connector for corrosion, water intrusion, or physical damage
- 2 Check the sensor circuit wiring for continuity, shorts to ground, and shorts to voltage
- 3 Measure the sensor resistance or voltage output and compare to the manufacturer's specification
- 4 Verify the charging control module software is up to date and check for related technical service bulletins
- 5 Substitute a known-good sensor or simulate the sensor signal to confirm the fault follows the sensor
- 6 Replace the faulty temperature sensor or charge port assembly as required
- 7 Clear the diagnostic trouble codes and perform a charging system verification drive or charge cycle

Charge coupler sensor faults often misdiagnosed

- A common oversight is replacing the charge port assembly when the actual fault is a chafed wire in the harness near the coupler hinge or strain relief.
- The code can be set by a temporary overheating event during a high-power DC fast charge, and it may not return after the coupler cools, leading to unnecessary parts replacement.
- Aftermarket or non-compliant charging cables can cause the control module to see implausible temperature signals and set this code even though the vehicle sensor is healthy.
- Technicians sometimes overlook that the sensor B circuit may share a ground with other sensors, so a ground fault elsewhere can corrupt this signal.
- The code does not always mean the sensor is dead; a loose connector pin or a software calibration issue can produce the same range/performance fault.

Can I keep driving with P0EE9?

You can usually continue driving the vehicle because this fault affects the charging system rather than the drivetrain, but avoid repeated high-power fast charging until the fault is repaired. If the vehicle refuses to charge or shows an overheating warning, stop using the charger and seek service.

Tools that help

- Digital multimeter
- OBD-II scan tool with live data capability
- Wiring diagram and service information for the specific vehicle
- Contact cleaner and dielectric grease
- Basic hand tools for trim and connector removal



Reading P0EE9

- P** Powertrain: engine, transmission and emissions.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- E** Hybrid propulsion.
- E9** The exact fault within that area.

Often seen with

P0EE8 Battery Charger Coupler Temperature Sensor B Circuit · **P0EEA** Battery Charger Coupler Temperature Sensor B Circuit Low · **P0EEB** Battery Charger Coupler Temperature Sensor B Circuit High · **P0EEC** Battery Charger Coupler Temperature Sensor B Circuit Intermi · **P0EED** Battery Energy Control Module B

See it working

Watch the animated explainer [How a Gyroscope Works: Gimbals and Precession](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0ee9/>

