



P0CEB

Hybrid/EV Electronics Coolant Pump A Control Circuit Low

P0CEB indicates that the hybrid or electric vehicle electronics coolant pump control circuit is reporting a low voltage condition, meaning the pump driver or wiring is not receiving the expected voltage when commanded on. The computer detects this when the control circuit voltage falls below the manufacturer's threshold for a calibrated time, often indicating a short to ground, an open circuit, or a failed pump.

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 pump still runs intermittently
- Reduced hybrid system performance or forced limp mode in some vehicles
- Overheating warnings for the hybrid electronics or battery pack
- Possible no-start condition if the coolant pump is required for system readiness

Common causes, most likely first

- 1 Faulty hybrid/EV electronics coolant pump (internal short or open winding)
- 2 Damaged or corroded wiring harness to the coolant pump
- 3 Poor electrical connection at the pump connector or ground point
- 4 Failed control module (e.g., hybrid control unit) driver circuit
- 5 Blown fuse or relay supplying power to the pump circuit
- 6 Coolant intrusion into the pump connector causing a short to ground



How to diagnose and fix it

- 1 Verify battery voltage and inspect the coolant pump fuse and relay; replace if blown or faulty
- 2 Disconnect the pump connector and inspect for corrosion, coolant intrusion, or damaged pins; clean or repair as needed
- 3 Measure resistance of the pump motor windings and compare to specification; replace pump if out of range
- 4 Check the control circuit for a short to ground or open circuit using a multimeter and wiring diagram
- 5 Backprobe the control module connector to verify the command signal and check for a faulty driver
- 6 If all wiring and pump test good, suspect the control module and perform further diagnostics before replacement
- 7 Clear codes and perform a road test to confirm the repair and ensure the code does not return

Don't overlook the coolant pump connector

- A common cause of this code is coolant wicking into the pump connector, causing a low-voltage short that mimics a failed pump.
The code can set intermittently due to a loose ground connection at the chassis, which is often overlooked during diagnosis.
- A failing pump may still spin freely by hand but draw excessive current or have an open circuit when hot, so resistance testing should be done at operating temperature.
- Some vehicles require a relearn or adaptation procedure after pump replacement to avoid setting a related code.
The control circuit low code does not always mean the pump is bad; a shorted wire harness or faulty control module driver can produce the same symptom.

Can I keep driving with P0CEB?

It is not recommended to continue driving with this code because the hybrid electronics coolant pump may not operate, leading to overheating of sensitive components. Avoid heavy loads or long trips until the fault is repaired, and if overheating warnings appear, stop safely and shut off the vehicle.

Tools that help

- OBD-II scan tool
- Digital multimeter
- Wiring diagram for the specific vehicle
- Socket set and trim removal tools
- Coolant drain pan and replacement coolant



Reading P0CEB

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

Often seen with

P0CEA Hybrid/EV Electronics Coolant Pump A Performance · **P0CEC** Hybrid/EV Electronics Coolant Pump A Control Circuit High · **P0CED** Hybrid/EV Electronics Coolant Pump A Enable Circuit · **P0CEE** Hybrid/EV Electronics Coolant Temperature Sensor A Circuit · **P0CEF** Hybrid/EV Electronics Coolant Temperature Sensor A Circuit R

See it working

Watch the animated explainer [Engine Cooling System Trainer: How Engines Stay Cool](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0ceb/>

