



P0C9E

14 Volt Power Module Current Sensor B Circuit Low

The 14-volt power module monitors current flow through its 'B' circuit, which typically feeds a specific output or load, and it has detected a current reading below the expected threshold. This low-current condition indicates that the circuit is drawing less current than the module commands, which can be caused by an open circuit, a faulty sensor, or a problem within the module itself.

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 a dedicated service warning lamp
- Often no symptoms besides the warning light, especially if the affected circuit is non-critical
- Intermittent or complete loss of function for the component powered by the B circuit
- Electrical accessories on that circuit may not operate or may operate erratically
- Possible charging system warning if the module manages charging output
- Reduced vehicle performance or disabled features if the module limits power to protect the circuit

Common causes, most likely first

- 1 Open or high-resistance wiring in the current sensor B circuit, including broken wires or poor connections
- 2 Failed current sensor B internal to the 14-volt power module
- 3 Corroded or loose connector pins at the module or sensor
- 4 Blown fuse or open circuit in the power feed to the sensor
- 5 Internal fault in the 14-volt power module affecting current sensing
- 6 Water intrusion or physical damage to the module or harness
- 7 Aftermarket accessories improperly tapped into the circuit causing abnormal current draw



How to diagnose and fix it

- 1 Verify the code with a scan tool and check for any related codes in other modules
- 2 Inspect the 14-volt power module harness and connectors for corrosion, damage, or loose pins
- 3 Check the fuse and power feed to the current sensor B circuit
- 4 Measure resistance and continuity of the current sensor B circuit wiring from end to end
- 5 Perform a voltage drop test on the circuit under load to identify high-resistance connections
- 6 If wiring and connections are good, test the current sensor B output signal with a multimeter or oscilloscope
- 7 Replace the 14-volt power module or current sensor as required, then clear codes and verify the repair

What the 14-Volt Module Current Sensor Really Does

- This code often sets with no drivability symptoms because the B circuit may power a non-essential load, so drivers mistakenly ignore it until a related system fails.
- A common misdiagnosis is replacing the 14-volt power module when the actual fault is a chafed wire or corroded ground that only shows up under vibration or temperature change.
- The current sensor B circuit is sometimes shared with other modules, so a fault in a different component on the same circuit can trigger this code.
- Aftermarket electrical accessories, such as alarms or audio equipment, tapped into the B circuit can alter current draw and set this code without any factory component failure.
- The 14-volt power module may command reduced output or disable certain features when this code is active, leading to secondary codes that can distract from the root cause.

Can I keep driving with P0C9E?

The vehicle is generally safe to drive because this code usually affects a specific circuit rather than a critical safety system, but avoid using any accessories on that circuit and have the fault diagnosed soon to prevent secondary damage. If the warning light is accompanied by charging system symptoms or loss of power, stop driving and seek professional assistance.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Wiring diagram for the specific vehicle
- Test light or load tester
- Oscilloscope (optional for signal analysis)
- Terminal pick and electrical contact cleaner



Reading P0C9E

- P** Powertrain: engine, transmission and emissions.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- C** Hybrid propulsion.
- 9E** The exact fault within that area.

Often seen with

P0562 System Voltage Low · **P0563** System Voltage High · **P0C9D** 14 Volt Power Module Current Sensor B Circuit Range/Performance · **P0C9F** 14 Volt Power Module Current Sensor B Circuit High · **P0CA0** 14 Volt Power Module Current Sensor B Circuit Intermittent

See it working

Watch the animated explainer **V6 Engine Explained: 60° Bank and Firing Order** on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0c9e/>

