

GENERIC · POWERTRAIN

P2C34

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P2C34

Crankcase Pressure Sensor B Circuit Low

P2C34 means the powertrain control module (PCM) has detected a low-voltage signal on the circuit for Crankcase Pressure Sensor B, which is typically a sensor that monitors pressure inside the engine crankcase for the positive crankcase ventilation (PCV) system. The PCM expects the sensor's signal voltage to stay within a calibrated range, and a sustained low reading indicates a short to ground, a faulty sensor, or a wiring problem.

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, often with no other noticeable symptoms
- Rough idle or unstable engine operation if the faulty sensor affects PCV system control
- Possible oil leaks or excessive crankcase pressure if the PCV system is not regulating properly
- Poor fuel economy or increased emissions in some cases
- In rare instances, the engine may enter limp mode or exhibit reduced power

Common causes, most likely first

- 1 Faulty crankcase pressure sensor B (internal short or failure)
- 2 Short to ground in the sensor signal circuit
- 3 Damaged or corroded wiring harness or connector at the sensor
- 4 Water or oil intrusion into the sensor connector causing a short
- 5 PCM internal fault (less common)
- 6 Aftermarket or incorrect sensor installed previously



How to diagnose and fix it

- 1 Use an OBD-II scanner to confirm P2C34 and check for related codes; clear the code and test-drive to see if it returns
- 2 Visually inspect the sensor, connector, and wiring for damage, corrosion, or oil contamination; repair or replace as needed
- 3 Disconnect the sensor and measure resistance or voltage on the signal circuit to check for a short to ground; compare with manufacturer specifications
- 4 Backprobe the sensor connector and monitor signal voltage with the key on, engine off; a low voltage with the sensor disconnected indicates a wiring short
- 5 If wiring is intact, test the sensor with a multimeter or replace it with a known-good unit and recheck the code
- 6 Check for technical service bulletins (TSBs) or software updates for the PCM that may address false setting of this code
- 7 After repairs, clear codes and verify the sensor signal reads within normal range during a road test

Crankcase Pressure Sensor B Low-Voltage Traps

- A low signal voltage often results from a short to ground in the wiring, not a failed sensor, so always check the harness before replacing parts.
- Oil or moisture can wick into the sensor connector and create a partial short, mimicking a bad sensor; cleaning and drying the connector may resolve the issue.
- Some vehicles use multiple crankcase pressure sensors (A and B) for different banks or functions, so confirm you are testing the correct sensor B circuit.
- A faulty PCV valve or clogged breather can cause abnormal crankcase pressure that may set this code indirectly, so inspect the entire PCV system.
- Aftermarket sensors sometimes have incorrect resistance values that trigger this code even when new, so prefer OEM-quality replacements.

Can I keep driving with P2C34?

You can generally continue driving with this code, but avoid sustained high-speed or heavy-load operation until it is repaired, as a faulty PCV system can lead to oil leaks or seal damage. If the engine runs roughly or you notice oil leaks, have it inspected promptly.

Tools that help

- OBD-II scanner with live data capability
- Digital multimeter
- Wiring diagram for the specific vehicle
- Basic hand tools (socket set, screwdrivers)
- Contact cleaner and dielectric grease



Reading P2C34

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

Often seen with

P0521 Engine Oil Pressure Sensor/Switch Circuit Range/Performance · **P0522** Engine Oil Pressure Sensor/Switch Circuit Low Voltage · **P2C33** Crankcase Pressure Sensor B Circuit Range/Performance · **P2C35** Crankcase Pressure Sensor B Circuit High · **P2C36** Crankcase Pressure Sensor B Circuit Intermittent/Erratic

See it working

Watch the animated explainer [Excavator Simulator: Hydraulics You Can Operate](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p2c34/>

