

GENERIC · POWERTRAIN

P0C68

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0C68

Generator Position Sensor Circuit A Circuit Intermittent/Erratic

P0C68 means the engine control module (ECM) has detected an intermittent or erratic signal from the generator position sensor circuit, which is used to monitor the rotor position inside the alternator. The ECM sets this code when the signal from the sensor drops out, jumps, or becomes inconsistent during normal operation, indicating a wiring or sensor fault rather than a steady failure.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Intermediate	Hybrid propulsion

Symptoms you may notice

- Battery warning light or charge system fault message on the dashboard
- Intermittent flickering of interior or exterior lights at idle
- Voltage gauge fluctuating or reading lower than normal
- The engine may stall or idle roughly if the alternator stops charging briefly
- Often no symptoms besides the warning light, especially if the fault is momentary

Common causes, most likely first

- Damaged or corroded wiring or connector at the generator position sensor
- Faulty generator position sensor inside the alternator
- Loose or worn serpentine belt causing erratic sensor signal
- Failed alternator internal components affecting the sensor output
- Poor ground connection for the alternator or engine block
- Electrical interference from aftermarket accessories or damaged ignition components

How to diagnose and fix it

- Inspect the generator position sensor wiring and connector for damage, corrosion, or looseness
- Check the serpentine belt condition and tension, and replace if worn or slipping
- Measure the sensor signal with an oscilloscope or scan tool live data to confirm erratic behavior
- Test the alternator output and charging system under load to rule out internal failure
- Verify all ground connections between the alternator, engine, and battery are clean and tight
- Replace the generator position sensor or the alternator assembly if the sensor is not serviceable separately
- Clear the code and perform a road test to confirm the repair and ensure the code does not return



Intermittent faults hide in plain sight

- A loose serpentine belt can mimic a failing generator position sensor because the belt slip causes erratic rotor speed readings that the ECM interprets as a sensor fault.
- Many technicians replace the alternator unnecessarily when the real problem is a chafed wire near the exhaust manifold or a corroded connector pin that only acts up when hot.
- This code can be set by a weak battery or poor ground that causes voltage spikes, so always load-test the battery and check grounds before condemning the sensor.
- Aftermarket electrical accessories wired into the charging circuit can introduce noise that corrupts the position sensor signal, so inspect for non-factory wiring.
- The generator position sensor is often integrated into the alternator on many modern vehicles, meaning a sensor fault may require replacing the entire unit rather than a standalone part.

Can I keep driving with P0C68?

You can usually drive short distances to a repair shop, but avoid long trips or heavy electrical loads because the alternator may stop charging intermittently and leave you stranded. If the battery light stays on or voltage drops, stop driving and have the charging system checked immediately.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Oscilloscope for signal analysis
- Serpentine belt tension gauge
- Socket and wrench set

Reading P0C68

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

Often seen with

P0562 System Voltage Low · **P0563** System Voltage High · **P0C67** Generator Position Sensor Circuit A Circuit High · **P0C69** Generator Position Sensor Circuit B Circuit · **P2500** Generator Lamp/L-Terminal Circuit Low



See it working

Watch the animated explainer [How the PCV System Works: Crankcase Ventilation](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0c68/>

