



P06DA

Engine Oil Pressure Control Circuit/Open

P06DA means the engine computer has detected an open circuit in the wiring that controls the engine oil pressure control solenoid, so it cannot command the oil pump to change pressure as designed. The computer monitors the control circuit for expected voltage or current and flags an open when the signal is missing or out of range.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Intermediate	Computer and output circuits

Symptoms you may notice

- Illuminated check engine light, often with no other noticeable symptoms
- Low oil pressure warning light or message on the dashboard
- Engine may enter reduced power or limp mode to protect itself
- Rough running or stalling if oil pressure control affects variable valve timing
- Poor fuel economy or increased oil consumption in some cases
- Audible ticking or knocking from the engine if oil pressure is genuinely low

Common causes, most likely first

- 1 Broken, chafed, or disconnected wire in the oil pressure control solenoid circuit
- 2 Corroded or loose electrical connector at the oil pressure control solenoid
- 3 Failed oil pressure control solenoid (open internal coil)
- 4 Faulty engine oil pressure sensor sending incorrect feedback
- 5 Engine computer (ECM/PCM) internal driver failure for that circuit
- 6 Low engine oil level or severely degraded oil causing the solenoid to overheat and fail
- 7 Blown fuse or poor ground connection shared with the solenoid circuit

How to diagnose and fix it

- 1 Check engine oil level and condition; top up or change oil if needed
- 2 Inspect the oil pressure control solenoid connector and wiring for damage, corrosion, or looseness
- 3 Test the solenoid circuit with a multimeter for continuity and short-to-ground
- 4 Measure the resistance of the oil pressure control solenoid and compare to manufacturer specification
- 5 Check for applicable technical service bulletins (TSBs) or software updates for the engine control module
- 6 Replace the oil pressure control solenoid if electrically open or out of specification
- 7 Clear the code and verify the repair with a road test and live data monitoring



What P06DA does not always mean

- P06DA is an electrical circuit code, so it often sets even when actual oil pressure is normal and the engine runs fine.
- A weak or failing oil pressure sensor can mimic a solenoid circuit fault by sending erratic feedback to the computer.
- On some engines, the oil pressure control solenoid shares a power or ground circuit with other components, so a fault elsewhere can trigger this code.
- Replacing the solenoid without checking the wiring harness is a common misdiagnosis that leads to repeat failures.
- The code can be set by a momentary open caused by vibration or heat, so intermittent faults may not appear during a quick inspection.

Can I keep driving with P06DA?

If the engine oil pressure warning light is not on and the engine sounds normal, you can drive cautiously to a repair shop, but avoid hard acceleration and heavy loads. If the oil pressure light is illuminated or the engine is noisy, stop driving immediately and have the vehicle towed to prevent severe engine damage.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Factory service information or wiring diagram
- Socket and ratchet set
- Oil pressure gauge (mechanical test gauge)

Reading P06DA

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
6	Computer and output circuits.
DA	The exact fault within that area.

Often seen with

P0520 Engine Oil Pressure Sensor/Switch Circuit Malfunction · **P0521** Engine Oil Pressure Sensor/Switch Circuit Range/Performance · **P0522** Engine Oil Pressure Sensor/Switch Circuit Low Voltage · **P06DB** Engine Oil Pressure Control Circuit Low · **P06DC** Engine Oil Pressure Control Circuit High



See it working

Watch the animated explainer [Helicopter Flight Simulator: Learn the Three Controls](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p06da/>

