

GENERIC · POWERTRAIN

P00CC

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P00CC

Fuel Volume Regulator Solenoid Supply Voltage Control Circuit Low

P00CC indicates that the powertrain control module (PCM) has detected a low voltage condition on the supply control circuit for the fuel volume regulator solenoid, which is used to manage fuel pressure in high-pressure fuel systems. The PCM monitors this circuit and sets the code when the voltage falls below the expected threshold, indicating a short to ground, an open circuit, or a faulty solenoid.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Intermediate	Fuel and air metering and auxiliary emission controls

Symptoms you may notice

- Illumination of the check engine light (malfunction indicator lamp).
- Often no symptoms besides the warning light, especially if the solenoid is still partially functional.
- Rough idle or engine stumbling due to incorrect fuel pressure.
- Reduced engine power or limp mode under load.
- Difficulty starting or extended cranking times.
- Poor fuel economy or increased emissions.

Common causes, most likely first

- 1 Faulty fuel volume regulator solenoid with an internal short or open winding.
- 2 Damaged or corroded wiring harness or connector at the solenoid.
- 3 Short to ground in the supply control circuit wiring.
- 4 Open circuit in the supply control circuit, such as a broken wire or poor connection.
- 5 Loose or corroded ground connection for the solenoid or PCM.
- 6 PCM internal fault causing incorrect voltage supply (rare).



How to diagnose and fix it

- 1 Verify the code with a scan tool and check for any related codes in other systems.
- 2 Inspect the fuel volume regulator solenoid connector and wiring for damage, corrosion, or loose pins.
- 3 Measure the resistance of the solenoid with a multimeter and compare to the manufacturer's specification.
- 4 Check for continuity and short to ground in the supply control circuit from the PCM to the solenoid.
- 5 Test the PCM's output voltage on the control circuit with a multimeter or oscilloscope.
- 6 Repair or replace any damaged wiring, connectors, or the solenoid as needed.
- 7 Clear the code and perform a road test to confirm the repair.

Don't overlook the fuel volume regulator solenoid

- A low voltage code on the supply control circuit often results from a poor connection at the solenoid connector rather than a failed solenoid itself.
- The fuel volume regulator solenoid is sometimes confused with the fuel pressure regulator, but it is a distinct component used on high-pressure fuel systems.
- In some vehicles, this code can be set by a weak battery or charging system issue that causes low system voltage, so always check battery condition first.
- A short to ground in the control circuit may not blow a fuse, so visual inspection of wiring is crucial.
- Replacing the solenoid without checking the circuit can lead to repeat failures if the underlying wiring issue is not addressed.

Can I keep driving with P00CC?

It is generally safe to drive with this code if the vehicle runs normally, but avoid heavy acceleration or towing until the fault is repaired. If the engine runs rough or enters limp mode, seek service promptly to prevent potential fuel system damage.

Tools that help

- OBD-II scan tool
- Digital multimeter
- Wire repair kit
- Electrical contact cleaner
- Vehicle service manual for wiring diagrams



Reading P00CC

- P** Powertrain: engine, transmission and emissions.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 0** Fuel and air metering and auxiliary emission controls.
- CC** The exact fault within that area.

Often seen with

P0087 Fuel Rail/System Pressure - Too Low · **P0088** Fuel Rail/System Pressure - Too High · **P0090** Fuel Pressure Regulator 1 Control Circuit · **P0091** Fuel Pressure Regulator 1 Control Circuit Low · **P00CD** Fuel Volume Regulator Solenoid Supply Voltage Control Circuit

See it working

Watch the animated explainer [How an Elevator Works: Traction Lift in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p00cc/>

