



P2CED

Particulate Filter Pressure Sensor D Circuit High

P2CED means the engine control module has detected an abnormally high voltage on the signal circuit of the particulate filter pressure sensor, identified as sensor D. The sensor measures the pressure difference across the diesel particulate filter, and a high signal voltage tells the computer that the pressure reading is outside its expected range, which can prevent accurate filter monitoring and regeneration.

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
- A message on the dashboard indicating a particulate filter or emissions system fault
- Reduced engine power or limp mode in some vehicles as a protective measure
- Poor fuel economy or more frequent regeneration cycles
- Black smoke or rough running if the filter becomes overloaded
- Failure of the onboard diagnostic monitor to complete, preventing inspection readiness

Common causes, most likely first

- 1 A short to voltage or chafed signal wire in the sensor D circuit
- 2 A faulty particulate filter pressure sensor D
- 3 Corroded, loose, or damaged electrical connector at the sensor or engine control module
- 4 A restricted or blocked pressure sensing tube or port causing an abnormal high reading
- 5 Water or debris intrusion into the sensor housing or connector
- 6 An internal fault in the engine control module affecting the sensor reference voltage
- 7 A missing or poor ground connection for the sensor circuit



How to diagnose and fix it

- 1 Verify the code with a scan tool and check for related codes in the particulate filter system
- 2 Inspect the sensor D connector and wiring for corrosion, chafing, or loose pins, and repair as needed
- 3 Check the pressure sensing tubes and ports for blockage, cracks, or disconnection, and clean or replace them
- 4 Measure the sensor signal voltage with a multimeter and compare it to the manufacturer's specification
- 5 Test the sensor reference voltage and ground at the connector to rule out wiring or module faults
- 6 Replace the particulate filter pressure sensor D if testing confirms it is faulty
- 7 Clear the codes and perform a road test or forced regeneration to verify the repair and reset the monitor

What a high signal voltage really tells you

- A high voltage on the signal circuit often indicates a short to voltage rather than a failed sensor, so inspect the harness for damage before replacing parts.
- Blocked pressure sensing tubes can mimic a sensor failure by causing the sensor to output a high signal, and this is a common oversight during diagnosis.
- The code may set intermittently due to water intrusion in the connector, which can corrode pins and cause a high resistance path to voltage.
- On some vehicles, a faulty engine control module reference voltage can affect multiple sensors, so check for other sensor codes before condemning the module.
- Replacing the sensor without checking the filter's actual soot load can lead to a repeat failure if the underlying cause is a restricted filter.

Can I keep driving with P2CED?

You can usually drive the vehicle with this code, but avoid heavy loads and long trips until it is repaired, because continued driving with a faulty pressure sensor can lead to improper filter regeneration and potential filter damage.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Wire repair kit with crimpers and heat shrink
- Sensor socket or wrench set
- Compressed air for cleaning sensing ports



Reading P2CED

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

Often seen with

P2453 Diesel Particulate Filter Pressure Sensor Circuit Range/Perf · **P2454** Diesel Particulate Filter Pressure Sensor Circuit Low · **P2CEB** Particulate Filter Pressure Sensor D Range/Performance · **P2CEC** Particulate Filter Pressure Sensor D Circuit Low · **P2CEE** Particulate Filter Pressure Sensor D Circuit Intermittent/Er

See it working

Watch the animated explainer [How a MAF Sensor Works: Hot-Wire Airflow Explained](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p2ced/>

