

GENERIC · POWERTRAIN

P2125

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P2125

Throttle/Pedal Position Sensor/Switch 'E' Circuit

P2125 indicates a fault in the electrical circuit for throttle or pedal position sensor 'E', which is a redundant sensor used by the engine computer to verify driver demand. The computer compares sensor 'E' against other throttle or pedal sensors and sets this code when the signal is out of range, intermittent, or implausible.

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

Symptoms you may notice

- Illumination of the check engine light, often with no other noticeable symptoms
- Reduced engine power or limp mode, limiting acceleration
- Hesitation or stumble when pressing the accelerator pedal
- Unresponsive or delayed throttle response
- Poor fuel economy or erratic idle in some cases

Common causes, most likely first

- 1 Wiring harness damage (chafed, corroded, or broken wires) between the sensor and the engine control module (ECM)
- 2 Faulty throttle position sensor or accelerator pedal position sensor 'E'
- 3 Poor electrical connection at the sensor or ECM connector
- 4 Internal ECM fault, though less common
- 5 Water or debris intrusion into the sensor connector
- 6 Aftermarket or improperly installed electronic throttle control components

How to diagnose and fix it

- 1 Inspect the sensor connector and wiring for corrosion, damage, or loose pins
- 2 Check for technical service bulletins (TSBs) related to the throttle or pedal sensor circuit
- 3 Measure sensor reference voltage and ground at the sensor connector
- 4 Perform a wiggle test on the harness while monitoring sensor data to detect intermittent faults
- 5 Compare sensor 'E' readings with other throttle/pedal sensors using a scan tool to check for plausibility
- 6 Replace the faulty sensor if wiring and connections are good
- 7 Reprogram or replace the ECM only after all other causes are ruled out



Don't overlook the wiring harness

- A common oversight is replacing the throttle body or pedal assembly without first checking the wiring harness for chafing or corrosion, which often causes intermittent P2125.
- The code can be set by a weak battery or charging system issue that causes low voltage to the sensors, so always verify battery health before condemning parts.
- On some vehicles, P2125 may be stored alongside other throttle codes like P2135 or P2138, indicating a correlation issue rather than a single sensor failure.
- Aftermarket throttle controllers or pedal tuners can interfere with sensor signals and trigger P2125, so check for any modifications.
- A relearn procedure for the electronic throttle system may be required after repairs, and skipping it can cause the code to return.

Can I keep driving with P2125?

If the vehicle is in limp mode or has severely reduced power, avoid driving and seek service immediately. If the check engine light is on but the car drives normally, you can drive cautiously to a repair shop, but avoid aggressive acceleration or heavy loads.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Wiring diagram for the specific vehicle
- Basic hand tools (sockets, screwdrivers, wire probe)
- Contact cleaner and dielectric grease

Reading P2125

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

Often seen with

P2120 Throttle/Pedal Position Sensor/Switch 'D' Circuit · **P2122** Accelerator Pedal Position Sensor D Circuit Low · **P2123** Accelerator Pedal Position Sensor D Circuit High · **P2135** Throttle/Pedal Position Sensor A/B Voltage Correlation · **P2138** Throttle/Pedal Position Sensor D/E Voltage Correlation



See it working

Watch the animated explainer [Disc Brake Trainer: How Car Brakes Stop a Wheel](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p2125/>

