

BMW · POWERTRAIN

P1122

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1122 · BMW

Pedal Position Sensor 1 Low Input

P1122 on a BMW means the engine control module (DME) has detected an abnormally low voltage signal from the accelerator pedal position sensor 1 circuit. The DME expects a specific voltage range as you press the pedal, and a low input tells it the sensor is reporting a closed throttle or a short to ground when it should not be.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	BMW specific	Medium	Intermediate	Fuel and air metering

Symptoms you may notice

- Illuminated check engine light, often with no other noticeable symptoms
- Reduced engine power or limp mode, limiting acceleration
- Hesitation or stumble when pressing the accelerator
- Unresponsive or delayed throttle response
- Rough idle or stalling in some cases
- Electronic throttle control warning message on the iDrive screen

Common causes, most likely first

- 1 Faulty accelerator pedal position sensor (worn tracks or internal failure)
- 2 Damaged or corroded wiring harness between the pedal sensor and the DME
- 3 Loose or contaminated electrical connector at the pedal sensor
- 4 Short to ground in the sensor signal circuit
- 5 Failed DME (engine control module) internal driver, though rare
- 6 Water intrusion or debris in the pedal assembly area

How to diagnose and fix it

- 1 Read fault memory with a BMW-capable scan tool and record freeze-frame data for P1122
- 2 Visually inspect the accelerator pedal sensor connector and wiring for corrosion, chafing, or loose pins
- 3 Measure sensor 1 signal voltage at the pedal connector with the key on and pedal at rest and fully pressed, comparing to BMW specifications
- 4 Check for continuity and short-to-ground on the signal wire between the pedal sensor and the DME
- 5 If wiring and connector are good, replace the accelerator pedal assembly with the integrated sensor
- 6 Clear fault memory and perform a throttle adaptation reset using the scan tool
- 7 Road test to confirm the code does not return and throttle response is normal



Why P1122 is often a wiring issue

- A low input code frequently comes from a chafed signal wire near the pedal bracket rather than a failed sensor, so always inspect the harness before replacing parts.
- The accelerator pedal sensor on many BMW models is not sold separately from the pedal assembly, making a wiring repair the more cost-effective first step.
- P1122 can be set intermittently by a loose connector that only loses contact over bumps, so wiggle-test the harness while watching live sensor data.
- A weak or failing battery can cause voltage drops that mimic sensor faults on BMWs, so verify charging system health before condemning the pedal sensor.
- After any repair, a throttle adaptation reset is required; otherwise the DME may continue to set the code even with a good sensor.

Can I keep driving with P1122?

You can usually drive the car to a workshop, but expect reduced power and possible limp mode. Avoid heavy acceleration or highway merging until the fault is repaired, as throttle response may be unpredictable.

Tools that help

- BMW-capable OBD-II scan tool with live data
- Digital multimeter
- Wiring diagram for the accelerator pedal circuit
- Torx or hex socket set for pedal assembly removal
- Contact cleaner and dielectric grease

Reading P1122

P	Powertrain: engine, transmission and emissions.
1	Manufacturer-specific code (BMW): its meaning depends on the make.
1	Fuel and air metering.
22	The exact fault within that area.



Often seen with

P1123 Long Term Fuel Trim Add Air Bank 1 System Too Rich · **P1121** Oxygen Sensor Heater Circuit Bank 2 Sensor 2 Short To Ground · **P1121** Accelerator Pedal Position Sensor Range Performance Problem · **P1121** Neutral Position Switch Circuit Low Input AT Vehicles · **P1121** Throttle Position Lower Than Expected · **P1121** Throttle Position Sensor Signal Not Consistent With Mass Air · **P1123** Throttle Position Stuck Open · **P1123** Long Term Fuel Trim Adaptive Air System Low · **P1121** Pedal Position Sensor A Circuit Range Performance · **P1123** Pedal Position Sensor A Circuit High Input · **P1121** Throttle Position Lower Than Expected · **P1121** Throttle Position Sensor Out of Range · **P1121** Throttle Position Sensor Inconsistent with Mass Air Flow Sen · **P1123** Throttle Position Sensor In Range But Higher Than Expected · **P1121** TP Sensor Circuit Intermittent High Voltage · **P1121** Pedal Position Sensor 1 Range Performance Problem · **P1123** Pedal Position Sensor 1 High Input · **P2135** Throttle/Pedal Position Sensor A/B Voltage Correlation · **P0121** Throttle Position Sensor A Circuit Range/Performance · **P0221** Throttle Position Sensor B Circuit Range/Performance

See it working

Watch the animated explainer [How a Helicopter Flies: Rotor and Tail in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/bmw-p1122/>

