



P1612 · Jaguar

Throttle Offset Malfunction

P1612 on a Jaguar indicates the engine control module (ECM) has detected that the learned throttle position offset is outside the expected range, meaning the base idle position of the throttle plate does not match the factory calibration. The ECM compares the throttle position sensor (TPS) signal at closed throttle against a stored reference and flags this code when the difference exceeds a calibrated threshold.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Jaguar specific	Medium	Intermediate	Computer and output circuits

Symptoms you may notice

- Illumination of the check engine light, often with no other noticeable symptoms.
- Rough or erratic idle, sometimes fluctuating up and down.
- Hesitation or stumble when accelerating from a stop.
- Reduced engine performance or limp mode in some cases.
- Occasional stalling when coming to a stop or idling.
- Poor fuel economy or increased emissions.

Common causes, most likely first

- 1 Carbon buildup on the throttle plate or bore, preventing it from returning to the correct closed position.
- 2 Throttle position sensor (TPS) failure or signal drift.
- 3 Wiring issues (chafed, corroded, or loose connections) between the TPS and ECM.
- 4 Throttle body motor or actuator malfunction, affecting the learned offset.
- 5 ECM software glitch or corrupted adaptive memory requiring relearn.
- 6 Mechanical binding in the throttle linkage or pedal assembly.
- 7 A faulty or mismatched throttle body assembly (after replacement without proper calibration).



How to diagnose and fix it

- 1 Use a scan tool to read live throttle position data and compare closed-throttle voltage to specification.
- 2 Inspect the throttle body for carbon deposits and clean it with approved throttle body cleaner.
- 3 Check the TPS wiring and connector for corrosion, tightness, and continuity.
- 4 Perform a throttle body calibration or relearn procedure using a Jaguar-compatible scan tool.
- 5 If the TPS signal is erratic or out of range, replace the TPS and recalibrate.
- 6 If the throttle body is mechanically worn or the motor is faulty, replace the throttle body and perform adaptation.
- 7 Clear the code and verify the repair with a road test, ensuring the offset learns correctly.

Throttle Offset Relearn Traps

- A dirty throttle body is the most common cause, but simply cleaning it without performing a relearn will often set P1612 again immediately.
- The code can be set by a weak battery or low voltage during cranking, which corrupts the adaptive memory; always check battery health first.
- After replacing the throttle body, some Jaguar models require a specific drive cycle to relearn the offset, not just a scan tool command.
- A misadjusted or sticking accelerator pedal can mimic a throttle offset fault, so inspect the pedal assembly before condemning the throttle body.
- P1612 can be stored intermittently due to a poor ground connection at the ECM or throttle body, which is often overlooked.

Can I keep driving with P1612?

The vehicle may enter limp mode or idle poorly, but it is generally safe to drive to a repair shop at low speed. Avoid aggressive acceleration and have the fault diagnosed promptly to prevent stalling or further damage.

Tools that help

- Jaguar-compatible OBD-II scan tool with bidirectional control and relearn capability
- Digital multimeter for voltage and continuity checks
- Throttle body cleaner and soft brush
- Socket set and screwdrivers for throttle body removal
- Wiring diagram for the TPS and ECM circuits



Reading P1612

- P** Powertrain: engine, transmission and emissions.
- 1** Manufacturer-specific code (Jaguar): its meaning depends on the make.
- 6** Computer and output circuits.
- 12** The exact fault within that area.

Often seen with

P0121 Throttle Position Sensor A Circuit Range/Performance · **P0122** Throttle Position Sensor A Circuit Low Input · **P0123** Throttle Position Sensor A Circuit High Input · **P0505** Idle Control System Malfunction · **P2106** Throttle Actuator Control System - Forced Limited Power

See it working

Watch the animated explainer [How Misfire Detection Works: Crankshaft Speed](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/jaguar-p1612/>

