

GENERIC · POWERTRAIN

P0807

OBD-II TROUBLE CODE

P0807

Clutch Position Sensor Circuit Low

P0807 indicates that the powertrain control module (PCM) has detected a low voltage signal on the clutch position sensor circuit, typically below the expected range for the current clutch pedal position. This sensor reports the clutch pedal's travel to the computer, which uses it for starting safety, cruise control cancellation, and smooth engine torque management during gear changes.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Intermediate	Transmission

Symptoms you may notice

- The engine may not crank or start because the clutch pedal position is not recognized as depressed.
- Cruise control may fail to engage or may disengage unexpectedly while driving.
- The clutch pedal may feel normal, but the vehicle could hesitate or jerk during gear changes.
- A stored trouble code may be the only sign, with no noticeable driveability issues.
- The check engine light (malfunction indicator lamp) illuminates on the dashboard.
- In some vehicles, the engine may idle poorly or stall when coming to a stop.

Common causes, most likely first

- A faulty clutch position sensor that has failed internally and is sending a low voltage signal.
- Damaged or corroded wiring in the sensor circuit, such as a short to ground or an open circuit.
- A poor electrical connection at the sensor connector or the PCM connector.
- A misadjusted or improperly installed sensor that is not reading the pedal position correctly.
- A mechanical problem with the clutch pedal assembly, such as a broken return spring or worn pivot, causing the sensor to stay in a low-voltage position.
- In rare cases, a software issue or internal fault in the PCM.



How to diagnose and fix it

- 1 Verify the code with a scan tool and check for any related codes in other modules before replacing parts.
- 2 Inspect the clutch position sensor connector and wiring for damage, corrosion, or loose pins, and repair as needed.
- 3 Test the sensor's voltage output with a multimeter while slowly depressing the clutch pedal to confirm it is stuck low.
- 4 Check the sensor's reference voltage and ground circuits at the connector to rule out wiring faults.
- 5 If the sensor is faulty, replace it and clear the code, then perform a relearn or calibration procedure if required by the manufacturer.
- 6 Inspect the clutch pedal assembly for mechanical binding or wear that could prevent proper sensor movement.
- 7 After repairs, clear the codes and test-drive the vehicle to confirm the code does not return.

Clutch Sensor Low Voltage: Don't Guess

- A low voltage code often results from a short to ground in the wiring, not a failed sensor, so always check the harness before replacing parts.
- Some vehicles use the clutch position sensor for cruise control and engine start logic, so a fault can disable those features even if the car drives normally.
- A misadjusted sensor or a worn clutch pedal bushing can cause the sensor to read low without any electrical fault.
- After replacing the sensor, some vehicles require a calibration procedure with a scan tool to learn the pedal range, or the code may reset.
- This code can be set by a low battery or charging system issue that causes a momentary voltage drop, so check the battery and charging system first.

Can I keep driving with P0807?

If the vehicle starts and drives normally, you can drive it to a repair shop, but avoid using cruise control and be aware that the engine may not restart if the clutch position is not recognized. If the engine will not crank, the vehicle is not driveable and should be towed.

Tools that help

- OBD-II scan tool
- Digital multimeter
- Wire repair kit
- Socket set
- Vehicle service information (for wiring diagrams and calibration procedures)



Reading P0807

- P** Powertrain: engine, transmission and emissions.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 8** Transmission.
- 07** The exact fault within that area.

Often seen with

P0805 Clutch Position Sensor Circuit · **P0806** Clutch Position Sensor Circuit Range/Performance · **P0808** Clutch Position Sensor Circuit High · **P0809** Clutch Position Sensor Circuit Intermittent · **P0810** Clutch Position Control Error

See it working

Watch the animated explainer [Manual Car Driving Simulator: Learn Clutch Control](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0807/>

