

GENERIC · POWERTRAIN

P08B9

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P08B9

Clutch Pedal Position Sensor A/B Correlation

P08B9 is a generic powertrain code indicating that the engine control module (ECM) has detected a disagreement between the two clutch pedal position sensors, typically designated A and B. The ECM compares the voltage signals from both sensors and sets this code when the correlation between them falls outside the expected range, which can be due to a faulty sensor, wiring issue, or mechanical problem with the pedal assembly.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Transmission

Symptoms you may notice

- Illumination of the check engine light (malfunction indicator lamp).
- Often no symptoms besides the warning light, especially if the correlation error is minor.
- Difficulty shifting gears or a clutch pedal that feels inconsistent.
- Engine may hesitate or stall when coming to a stop if the ECM cannot determine clutch pedal position accurately.
- Cruise control may be disabled or function erratically.
- Some vehicles may enter limp mode or limit engine power.

Common causes, most likely first

- 1 Faulty clutch pedal position sensor A or B.
- 2 Wiring damage (open, short, or chafed wires) between the sensors and the ECM.
- 3 Corroded or loose electrical connectors at the sensors or ECM.
- 4 Mechanical wear or misalignment in the clutch pedal assembly, such as a bent bracket or worn bushings.
- 5 Improper sensor installation or adjustment after prior repairs.
- 6 ECM software issue or internal fault (less common).



How to diagnose and fix it

- 1 Use an OBD-II scanner to retrieve the code and freeze-frame data, then visually inspect the clutch pedal area for obvious damage or disconnected components.
- 2 Check the clutch pedal position sensor connectors for corrosion, tightness, and proper seating; clean or repair as needed.
- 3 Perform a voltage drop or resistance test on the sensor wiring harness to rule out open or short circuits, referring to the factory service information for pinouts and expected values.
- 4 Test each clutch pedal position sensor with a multimeter while slowly depressing the pedal to verify smooth voltage changes and compare the two signals for correlation.
- 5 If a sensor is faulty, replace it and clear the code; ensure the new sensor is properly calibrated or adjusted per the manufacturer's procedure.
- 6 Inspect the clutch pedal assembly for mechanical issues such as worn bushings, bent brackets, or loose mounting bolts, and repair or replace components as necessary.
- 7 After repairs, clear the diagnostic trouble codes and perform a road test to verify the code does not return, monitoring live data for proper sensor correlation.

Clutch Pedal Sensor Correlation Traps

- A common oversight is replacing both sensors without checking the wiring harness, which often suffers from chafing near the pedal assembly due to constant movement.
- The code can be set by a mechanically binding clutch pedal that prevents one sensor from reaching its full range of motion, mimicking an electrical fault.
- On some vehicles, the clutch pedal position sensors are integrated into the pedal assembly and cannot be serviced separately, requiring replacement of the entire unit.
- Aftermarket sensors may have different voltage characteristics than OEM parts, leading to correlation errors even when both sensors are new.
- The ECM may set P08B9 if the battery was recently disconnected or the ECM was reprogrammed, requiring a relearn procedure to restore proper correlation.

Can I keep driving with P08B9?

It is generally safe to drive with P08B9, but avoid aggressive clutch operation and be prepared for potential stalling or difficulty shifting. If the vehicle exhibits drivability issues or enters limp mode, have it diagnosed promptly to prevent further complications.



Tools that help

- OBD-II scanner with live data capability
- Digital multimeter
- Factory service information or wiring diagrams
- Basic hand tools (screwdrivers, socket set)
- Feeler gauges or calibration tools if required

Reading P08B9

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
8	Transmission.
B9	The exact fault within that area.

Often seen with

P0805 Clutch Position Sensor Circuit · **P0806** Clutch Position Sensor Circuit Range/Performance · **P0807** Clutch Position Sensor Circuit Low · **P0808** Clutch Position Sensor Circuit High · **P0809** Clutch Position Sensor Circuit Intermittent

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/p08b9/>

