

GENERIC · POWERTRAIN

P08B4

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P08B4

Clutch Pedal Position Sensor B Circuit/Open

P08B4 indicates that the powertrain control module has detected an open circuit or excessive resistance in the signal circuit for clutch pedal position sensor B, which is typically the second of two redundant sensors used to confirm clutch pedal movement. The computer monitors the expected voltage or signal return from this sensor and flags the code when the reading falls outside the normal range for the current pedal position.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Transmission

Symptoms you may notice

- Illumination of the check engine light or a dedicated clutch system warning light
- Often no symptoms besides the warning light, especially if sensor A remains functional
- Difficulty starting the engine because the clutch pedal must be depressed to engage the starter
- Inconsistent or failed engagement of cruise control, which relies on clutch pedal status
- Rough or jerky shifting if the engine management strategy uses clutch position for torque reduction
- A stored code with no drivability complaint when the fault is intermittent or only affects the redundant signal

Common causes, most likely first

- 1 Broken, chafed, or corroded wiring in the clutch pedal position sensor B signal circuit
- 2 Loose or contaminated electrical connector at the clutch pedal position sensor B
- 3 Failed clutch pedal position sensor B internal open circuit
- 4 Poor ground connection shared by the clutch pedal position sensors
- 5 Water intrusion or debris in the sensor connector causing high resistance
- 6 Damage to the sensor from a misplaced floor mat or interference with the pedal linkage
- 7 Rarely, an internal fault in the powertrain control module driver circuit



How to diagnose and fix it

- 1 Verify the code with a scan tool and check for any related clutch or engine codes before touching hardware
- 2 Inspect the clutch pedal position sensor B connector and wiring for looseness, corrosion, or physical damage
- 3 Measure resistance and voltage on the sensor B signal circuit while exercising the clutch pedal to confirm an open or intermittent fault
- 4 Check the sensor ground circuit for excessive resistance using a voltage drop test under load
- 5 Replace the clutch pedal position sensor B if the circuit tests good but the sensor output is missing or erratic
- 6 Clear the code and perform a road test that includes clutch operation and cruise control activation to confirm the repair
- 7 If the fault persists after sensor and wiring repairs, diagnose the powertrain control module input circuit for an internal open

What the clutch sensor B code hides

- Many vehicles use two clutch pedal position sensors for redundancy, so a failure of sensor B often produces no drivability change and the driver may never notice anything beyond the warning light.
- A common misdiagnosis is replacing the clutch pedal position sensor B when the real problem is a worn clutch pedal pivot bushing that prevents the sensor from reaching its expected travel range.
- Aftermarket floor mats or objects that block the clutch pedal from returning fully can set this code intermittently by keeping the sensor signal outside its learned range.
- The code can be stored by a momentary open circuit caused by vibration or temperature changes, so a wiggle test of the harness while monitoring live data is often more revealing than a static resistance check.
- Some vehicles share the sensor ground with the accelerator pedal or other pedal sensors, so a single bad ground point can set multiple pedal-related codes that seem unrelated.

Can I keep driving with P08B4?

The vehicle is generally safe to drive because the clutch still operates mechanically, but you should avoid relying on cruise control and be aware that the engine may not start if the remaining clutch sensor also fails. Have the circuit inspected soon to prevent a no-start condition.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Back probe pins or breakout leads
- Wiring diagram for the clutch pedal position sensor circuit
- Trim removal tools for accessing the pedal assembly



Reading P08B4

- P** Powertrain: engine, transmission and emissions.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 8** Transmission.
- B4** The exact fault within that area.

Often seen with

P0805 Clutch Position Sensor Circuit · **P0806** Clutch Position Sensor Circuit Range/Performance · **P0830** Clutch Pedal Switch 'A' Circuit · **P08B3** Neutral Position Sensor B Not Learned · **P08B5** Clutch Pedal Position Sensor B Circuit Range/Performance

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/p08b4/>

