

GENERIC · POWERTRAIN

P05E0

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P05E0

Brake Pedal Position Sensor A/B Correlation

P05E0 indicates that the powertrain control module (PCM) has detected a disagreement between the two brake pedal position sensors, which are designed to provide redundant signals for safety. The computer compares the voltage or duty cycle from sensor A and sensor B and sets this code when their readings do not correlate within the expected tolerance.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Intermediate	Vehicle speed, idle control and auxiliary inputs

Symptoms you may notice

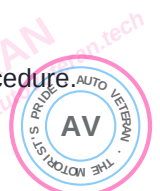
- Illumination of the malfunction indicator lamp (MIL) on the dashboard.
- Often no symptoms besides the warning light, with normal brake operation.
- Extended stopping distance or delayed brake response in some cases.
- Cruise control may become inoperative or disengage unexpectedly.
- Brake lights may stay on continuously or fail to illuminate.
- Transmission may not shift out of park or may exhibit harsh shifting.

Common causes, most likely first

- 1 Faulty brake pedal position sensor A or B.
- 2 Worn or misadjusted brake pedal position sensor linkage or bracket.
- 3 Damaged, corroded, or shorted wiring in the sensor circuits.
- 4 Poor electrical connection at the sensor or PCM connectors.
- 5 Failed PCM or software issue requiring reprogramming.
- 6 Aftermarket accessories interfering with the brake pedal area.

How to diagnose and fix it

- 1 Verify the brake pedal moves freely and returns to rest without binding.
- 2 Inspect the sensor connectors and wiring for corrosion, chafing, or loose pins.
- 3 Check live data for both brake pedal position sensors to confirm the correlation fault.
- 4 Perform a visual inspection of the sensor mounting and linkage for wear or misalignment.
- 5 Test the sensor signal circuits with a multimeter for opens, shorts, or incorrect voltage.
- 6 Replace the faulty brake pedal position sensor and perform any required calibration or relearn procedure.
- 7 Clear the diagnostic trouble codes and verify the repair by test-driving the vehicle.



Brake Pedal Sensor Correlation Traps

- A misadjusted or worn brake pedal pivot can cause the two sensors to fall out of correlation even when both sensors are electrically good.
- Aftermarket floor mats or debris obstructing the brake pedal can prevent full travel and trigger this code intermittently.
- The PCM may set P05E0 alongside codes for the individual sensors, so always check for related codes before replacing parts.
- On some vehicles, a weak battery or charging system issue can cause voltage drops that affect sensor readings and set this code.
- Replacing only one sensor without checking the other or the wiring often leads to a repeat failure because the root cause remains.

Can I keep driving with P05E0?

If the brake pedal feels normal and the vehicle stops reliably, you can drive cautiously to a repair shop, but avoid towing or heavy loads. If you notice any change in brake pedal feel, extended stopping distance, or the brake lights not working, stop driving and have the vehicle towed.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Vehicle service information for sensor specifications
- Basic hand tools (sockets, wrenches, screwdrivers)
- Brake pedal depressor or assistant to operate the pedal

Reading P05E0

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
5	Vehicle speed, idle control and auxiliary inputs.
E0	The exact fault within that area.

Often seen with

P0571 Brake Switch 'A' Circuit · **P0572** Brake Switch 'A' Circuit Low · **P05E1** A/C Refrigerant Pressure Sensor A Circuit Intermittent/Errat · **P05E2** A/C Refrigerant Pressure Sensor B Circuit Intermittent/Errat · **P05E3** Park Brake Sensor/Switch Circuit



See it working

Watch the animated explainer [How ABS Works: Anti-Lock Brakes in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p05e0/>

