

GENERIC · POWERTRAIN

P07B5

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P07B5

Transmission Park Position Sensor/Switch A Circuit Performance/Low

P07B5 indicates that the transmission control module (TCM) has detected an implausible or low signal from the park position sensor or switch A circuit, which is responsible for confirming that the transmission is securely in Park. The computer compares the sensor's voltage or state against expected values and flags a fault when the signal is out of range, stuck low, or inconsistent with other gear inputs.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Transmission

Symptoms you may notice

- The warning light (malfunction indicator lamp) illuminates, often with no other noticeable symptoms.
- The engine may not start because the vehicle does not recognize that the transmission is in Park.
- The gear position indicator on the dashboard may be blank, flashing, or show the wrong range.
- The transmission may refuse to shift out of Park or may not engage Park properly.
- In some cases, the vehicle may roll away if the parking pawl is not engaged, posing a safety risk.
- Remote start or keyless ignition systems may fail to operate because the Park signal is missing.

Common causes, most likely first

- 1 A faulty park position sensor or switch that is internally shorted or has worn contacts.
- 2 Damaged, corroded, or loose wiring or connectors in the sensor circuit, especially at the transmission.
- 3 A misadjusted or misaligned sensor due to transmission work or mounting hardware issues.
- 4 A failed transmission control module (TCM) or a software glitch requiring reprogramming.
- 5 Mechanical wear in the transmission range selector mechanism or internal park pawl components.
- 6 Water intrusion or contamination in the sensor connector causing low signal voltage.

How to diagnose and fix it

- 1 Verify the code with a scan tool and check for any related transmission or body control module codes.
- 2 Inspect the park position sensor connector and wiring for corrosion, damage, or loose pins.
- 3 Check the sensor's voltage and resistance against the manufacturer's specifications using a multimeter.
- 4 Adjust or replace the park position sensor or switch if it fails electrical or mechanical checks.
- 5 Repair any damaged wiring or connectors and clear the code to see if it returns.
- 6 If the code persists, check the TCM for software updates or internal faults.
- 7 Perform a relearn or calibration procedure for the transmission range sensor if required.



Park sensor faults that mimic other issues

- A weak or failing battery can cause voltage drops that set this code, so always load-test the battery before replacing the sensor.
- The park position sensor often shares a ground with other transmission sensors, and a bad ground can cause multiple codes including P07B5.
- After transmission repairs, the sensor may simply be misadjusted, and a proper adjustment often resolves the code without parts replacement.
- Some vehicles use a range sensor integrated into the transmission valve body, making replacement more involved than an external switch.
- The code can be set intermittently by a loose connector that only loses contact when the vehicle is on a rough road or during temperature changes.

Can I keep driving with P07B5?

If the vehicle starts and drives normally, you can drive cautiously to a repair shop, but avoid parking on inclines and always use the parking brake. If the vehicle will not start or shift out of Park, do not force it; have it towed to prevent damage or a rollaway hazard.

Tools that help

- OBD-II scan tool with transmission code capability
- Digital multimeter
- Jack and jack stands or ramps
- Basic hand tools (socket set, screwdrivers)
- Manufacturer service information for voltage specifications

Reading P07B5

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
7	Transmission.
B5	The exact fault within that area.

Often seen with

P0705 Transmission Range Sensor Circuit Malfunction · **P0706** Transmission Range Sensor Circuit Range/Performance · **P0707** Transmission Range Sensor Circuit Low · **P0708** Transmission Range Sensor Circuit High · **P0850** Park/Neutral Switch Input Circuit



See it working

Watch the animated explainer [How an Automatic Transmission Works, Gear by Gear](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p07b5/>

