

GENERIC · POWERTRAIN

P07FE

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P07FE

Stuck in Gear Not Specified

P07FE indicates that the transmission control module (TCM) has detected a condition where the transmission is stuck in a gear that the control strategy cannot identify or that does not match the commanded gear. The TCM monitors input and output speed sensors, gear ratio calculations, and internal shift commands to determine that the transmission is not responding to gear change requests as expected, yet the specific stuck gear cannot be pinpointed.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Professional

AREA

Transmission

Symptoms you may notice

- Illumination of the malfunction indicator lamp (MIL) with no other noticeable drivability issues
- Transmission may feel like it is holding a gear too long or shifting harshly
- Vehicle may enter limp mode, limiting speed and gear selection
- RPM may flare or drop unexpectedly during acceleration or deceleration
- Delayed or erratic engagement when shifting from park to drive or reverse

Common causes, most likely first

- 1 Faulty transmission speed sensor (input or output) providing erratic signals
- 2 Low or contaminated transmission fluid affecting hydraulic pressure and shift response
- 3 Sticking or failed shift solenoid valve preventing proper gear engagement
- 4 Internal transmission mechanical wear, such as a stuck valve body or clutch pack issue
- 5 Wiring harness damage or corroded connectors between the TCM and transmission components
- 6 TCM software calibration issue or internal TCM fault

How to diagnose and fix it

- 1 Check transmission fluid level and condition; top off or replace fluid if contaminated
- 2 Inspect wiring and connectors at the transmission and TCM for damage or corrosion
- 3 Use a scan tool to read live data from input and output speed sensors and compare to expected values
- 4 Perform a resistance and voltage test on shift solenoids according to manufacturer specifications
- 5 Check for technical service bulletins (TSBs) or software updates for the TCM
- 6 Conduct a hydraulic pressure test to verify internal transmission pressures
- 7 If internal mechanical faults are suspected, remove the transmission pan for inspection and possibly disassemble for repair



When the code points to a sensor, not the transmission

- A dirty or failing mass airflow (MAF) sensor can cause erratic engine torque signals that the TCM misinterprets as a stuck gear, setting P07FE without any transmission fault.
- The code can be set by a simple low battery voltage event that causes the TCM to lose its adaptive memory, leading to a temporary stuck-gear detection that clears after a relearn drive cycle.
- Many technicians replace the transmission when the real culprit is a chafed wire in the harness near the exhaust manifold, so always perform a wiggle test on the sensor circuits.
- P07FE does not always mean the transmission is mechanically stuck; it can be a software glitch where the TCM fails to recognize a legitimate gear ratio due to a calibration error.
- After any transmission repair, the TCM must complete a relearn procedure; skipping this step can cause the code to return immediately even though the repair was successful.

Can I keep driving with P07FE?

If the vehicle is in limp mode or shifting erratically, avoid highway driving and seek service immediately to prevent further transmission damage. If the only symptom is the warning light and the car drives normally, you can drive cautiously to a repair shop, but avoid heavy acceleration or towing.

Tools that help

- OBD-II scan tool with live data and transmission capabilities
- Digital multimeter for circuit testing
- Transmission fluid level dipstick or scan tool with fluid temperature reading
- Wiring diagram and manufacturer service information
- Hydraulic pressure gauge kit

Reading P07FE

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

Often seen with

P0700 Transmission Control System Malfunction · **P0715** Input/Turbine Speed Sensor Circuit Malfunction · **P0720** Output Speed Sensor Circuit Malfunction · **P0730** Incorrect Gear Ratio · **P0740** Torque Converter Clutch Circuit Malfunction



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/p07fe/>

