

GENERIC · POWERTRAIN

P07C4

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P07C4

Input/Turbine Shaft Speed Sensor C Circuit High

P07C4 indicates that the transmission control module has detected an abnormally high voltage on the signal circuit for the 'C' input or turbine shaft speed sensor. This sensor reports the rotational speed of the transmission input shaft, and a high circuit voltage typically means the signal wire is shorted to power or the sensor's internal circuit is open.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Intermediate	Transmission

Symptoms you may notice

- Illumination of the check engine light or transmission warning light, often with no other noticeable symptoms.
- Harsh or delayed gear shifts as the transmission control module substitutes a default speed value.
- The transmission may enter limp mode, sticking in a single gear or refusing to shift.
- A stored code P07C4 may be accompanied by other speed sensor or shift solenoid codes.
- In some cases, the vehicle may experience a sudden loss of power or reduced acceleration.

Common causes, most likely first

- 1 A short to voltage on the signal circuit between the sensor and the transmission control module.
- 2 An open or high-resistance connection in the sensor's signal circuit, including damaged wiring or corroded connectors.
- 3 A failed input/turbine shaft speed sensor 'C' due to internal electrical failure.
- 4 Contamination or metallic debris on the sensor tip interfering with the signal.
- 5 A faulty transmission control module, though this is less common.
- 6 Poor ground connection for the sensor or the transmission control module.

How to diagnose and fix it

- 1 Inspect the sensor and its connector for physical damage, corrosion, or loose pins, and clean or repair as needed.
- 2 Use a digital multimeter to check the sensor's resistance and compare it to the manufacturer's specification.
- 3 Backprobe the signal circuit at the sensor and at the transmission control module to check for a short to voltage with the key on and engine off.
- 4 Check the sensor's ground circuit for excessive resistance and repair any faulty ground connections.
- 5 If the wiring and connectors are intact, replace the input/turbine shaft speed sensor 'C' with a known-good unit.
- 6 Clear the diagnostic trouble codes and perform a road test to verify the repair and ensure the code does not return.

What a high voltage on a speed sensor really means

- A high voltage on a speed sensor signal circuit often indicates a short to power rather than a failed sensor, so always check for chafed wires near hot or moving components before replacing parts.
- The input/turbine shaft speed sensor 'C' may be one of multiple speed sensors in the transmission, and a failure of a different sensor can sometimes set a related code, so verify which sensor the code actually refers to.
- Metallic debris from a failing transmission can accumulate on the sensor tip and cause an erratic signal that the control module interprets as a circuit fault, so a fluid inspection is a wise diagnostic step.
- In some vehicles, the input speed sensor signal is shared with the engine control module for certain functions, and a fault in that shared circuit can set this code even if the transmission itself is healthy.
- A weak or failing battery or charging system can cause voltage spikes that mimic a sensor circuit fault, so always verify system voltage is stable before condemning the sensor.

Can I keep driving with P07C4?

If the vehicle is in limp mode or shifting erratically, avoid highway driving and seek repair promptly to prevent transmission damage. If only the warning light is on and the vehicle drives normally, you can drive cautiously to a repair shop, but avoid heavy loads or aggressive acceleration.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Wire piercing probes or backprobe pins
- Vehicle-specific service information for wiring diagrams and sensor specifications
- Basic hand tools for connector and sensor removal

Reading P07C4

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
7	Transmission.
C4	The exact fault within that area.

Often seen with

P0715 Input/Turbine Speed Sensor Circuit Malfunction · **P0716** Input/Turbine Speed Sensor 'A' Circuit Range/Performance · **P07C1** Input/Turbine Shaft Speed Sensor B Circuit Low · **P07C2** Input/Turbine Shaft Speed Sensor B Circuit High · **P07C3** Input/Turbine Shaft Speed Sensor C Circuit Low



See it working

Watch the animated explainer [How a Jet Engine Works: Two-Spool Turbofan](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p07c4/>

