



P07CE

Transmission Mode Switch D Circuit

P07CE indicates that the transmission control module (TCM) has detected an abnormal condition in the electrical circuit for Transmission Mode Switch D, which is one of several inputs used to select driving modes such as sport, economy, or manual shift. The TCM monitors the expected voltage or signal on the circuit and sets this code when the actual reading falls outside the programmed range for a calibrated time.

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

Symptoms you may notice

- The malfunction indicator lamp (MIL) illuminates on the dashboard, often with no other noticeable symptoms.
- The transmission may fail to respond when you press the mode selection button, leaving it stuck in a single driving mode.
- The instrument cluster may display an incorrect or flashing mode indicator, or no mode indication at all.
- Shift quality may become firmer or softer than usual because the TCM defaults to a limp-home strategy.
- In some vehicles, the transmission may remain in a single gear or refuse to enter manual shift mode.

Common causes, most likely first

- 1 A faulty transmission mode switch D itself, worn or contaminated internally.
- 2 Damaged, corroded, or disconnected wiring or connector terminals at the switch or TCM.
- 3 An open or short circuit in the signal or ground circuit for switch D.
- 4 Water intrusion or fluid contamination affecting the switch or its connector.
- 5 A failed TCM driver or internal circuit for the mode switch input.
- 6 Poor ground connection at the transmission or chassis, causing reference voltage drift.

How to diagnose and fix it

- 1 Verify the code with a scan tool and check for any related transmission codes before clearing anything.
- 2 Inspect the mode switch connector and wiring for corrosion, chafing, or loose pins, and repair as needed.
- 3 Measure resistance or voltage on the switch D circuit and compare with the manufacturer's specification.
- 4 Test the mode switch itself by actuating it and observing signal changes on a scan tool or multimeter.
- 5 Check the ground circuit for excessive resistance and clean or tighten the ground points.
- 6 If the switch tests bad, replace it and clear the code to see if it returns.
- 7 If the circuit and switch are good, diagnose the TCM and its programming, replacing or reprogramming only as a last step.



Mode switch faults that fool good technicians

- A mode switch that feels fine to the touch can still have worn internal contacts that only fail intermittently when hot or cold.
- Corrosion inside a connector that looks clean from the outside is a frequent cause, especially on vehicles driven in wet or salty conditions.
- The TCM may set P07CE even when the switch works, if the ground reference for the switch circuit is shared with another component that has failed.
- Some vehicles use a single multiplexed wire for multiple mode switches, so a fault in one switch can mimic a failure in another.
- Clearing the code without testing the circuit often leads to a comeback because the underlying intermittent fault remains.

Can I keep driving with P07CE?

The vehicle is generally safe to drive because the transmission defaults to a safe mode, but you may notice reduced performance or shift quality. Avoid aggressive driving or towing until the fault is repaired, and have the circuit checked soon to prevent further transmission stress.

Tools that help

- OBD-II scan tool with transmission module access
- Digital multimeter
- Wiring diagram for the specific vehicle
- Contact cleaner and dielectric grease
- Basic hand tools for trim and connector access

Reading P07CE

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

Often seen with

P07C9 Intermediate Shaft Speed Sensor C Circuit Low · **P07CA** Intermediate Shaft Speed Sensor C Circuit High
 · **P07CB** Transmission Fluid Thermostat Performance · **P07CC** Transmission Mode Switch C Circuit Low ·
P07CD Transmission Mode Switch C Circuit High



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/p07ce/>

