

GENERIC · POWERTRAIN

P083B

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P083B

Transmission Fluid Pressure Sensor/Switch G Circuit Range/Performance

P083B indicates that the transmission control module has detected an out-of-range or performance fault in the electrical circuit for transmission fluid pressure sensor or switch G. The computer compares the sensor's signal against expected values for the current operating conditions and flags the code when the signal is erratic, stuck, or outside the allowable range.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Transmission

Symptoms you may notice

- Illumination of the check engine light or transmission warning light, often with no other symptoms
- Harsh or delayed gear shifts as the transmission defaults to a limp-home mode
- Transmission may slip or fail to engage certain gears
- Erratic or inconsistent shift points during acceleration
- Reduced fuel economy due to improper shift scheduling

Common causes, most likely first

- 1 Faulty transmission fluid pressure sensor or switch G
- 2 Damaged or chafed wiring in the sensor circuit
- 3 Corroded or loose electrical connector at the sensor
- 4 Low or contaminated transmission fluid affecting pressure readings
- 5 Internal transmission mechanical issue causing abnormal pressure
- 6 Failed transmission control module (TCM) or poor ground connection

How to diagnose and fix it

- 1 Check transmission fluid level and condition; top off or replace fluid if necessary
- 2 Inspect the sensor G electrical connector and wiring for damage or corrosion
- 3 Test the sensor G circuit with a multimeter for continuity and proper voltage
- 4 Compare live sensor data against manufacturer specifications using a scan tool
- 5 Replace the transmission fluid pressure sensor or switch G if faulty
- 6 Repair or replace damaged wiring or connectors in the circuit
- 7 Clear the code and perform a relearn or adaptation procedure if required



Common Misdiagnosis Traps for P083B

- A low transmission fluid level can mimic a failed sensor G by causing erratic pressure readings, so always verify fluid condition before condemning the sensor.
- Wiring harness damage near hot exhaust components or sharp edges is a frequent hidden cause that visual inspection alone may miss without wiggle testing.
- The code can set intermittently due to a poor ground connection at the transmission case, which many technicians overlook when replacing sensors.
- After replacing the sensor, some vehicles require a transmission adaptation reset; skipping this step can leave the code stored or cause harsh shifts.
- A failing transmission control module can produce the same circuit fault, so rule out the sensor and wiring before replacing the module.

Can I keep driving with P083B?

You can usually drive the vehicle to a repair shop, but avoid aggressive acceleration or heavy towing because the transmission may be in limp mode and shift unpredictably. If the vehicle enters limp mode or shifts harshly, limit driving to essential trips until diagnosed.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Transmission fluid level dipstick or inspection tool
- Wiring diagram for the specific vehicle
- Basic hand tools for connector and sensor access

Reading P083B

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
8	Transmission.
3B	The exact fault within that area.

Often seen with

P0830 Clutch Pedal Switch 'A' Circuit · **P0831** Clutch Pedal Switch 'A' Circuit Low · **P0832** Clutch Pedal Switch 'A' Circuit High · **P0833** Clutch Pedal Switch 'B' Circuit · **P0840** Transmission Fluid Pressure Sensor/Switch 'A' 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/p083b/>

