

GENERIC · POWERTRAIN

P083D

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P083D

Transmission Fluid Pressure Sensor/Switch G Circuit High

P083D indicates that the transmission control module (TCM) has detected an abnormally high voltage on the circuit for Transmission Fluid Pressure Sensor/Switch G, which is one of several pressure sensors used to monitor internal hydraulic pressures. The TCM compares the sensor's signal to expected values and sets this code when the voltage exceeds the normal range, typically indicating a short to power, an open circuit, or a faulty sensor.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Transmission

Symptoms you may notice

- Illumination of the malfunction indicator lamp (MIL) on the dashboard
- Often no symptoms besides the warning light, especially if the fault is intermittent
- Harsh or delayed transmission shifts due to incorrect pressure readings
- Transmission may enter limp mode or fail to shift properly
- Erratic or inconsistent shift quality under varying loads
- Possible reduced fuel economy or increased engine RPM during cruising

Common causes, most likely first

- 1 Faulty transmission fluid pressure sensor/switch G
- 2 Short to power in the sensor signal circuit
- 3 Open or high-resistance connection in the sensor ground circuit
- 4 Damaged wiring harness or connector at the sensor or TCM
- 5 Contaminated or degraded transmission fluid affecting sensor operation
- 6 Internal transmission hydraulic issues causing abnormal pressure
- 7 Failed transmission control module (less common)



How to diagnose and fix it

- 1 Verify the code with a scan tool and check for any related diagnostic trouble codes (DTCs) in the transmission control module
- 2 Inspect the transmission fluid level and condition; top off or replace fluid if contaminated
- 3 Visually inspect the sensor G and its wiring harness for damage, corrosion, or loose connections
- 4 Perform a voltage drop test on the sensor signal and ground circuits to check for excessive resistance
- 5 Test the sensor G with a multimeter according to the manufacturer's specifications; replace if out of range
- 6 Check for short to power in the signal circuit by disconnecting the sensor and TCM and measuring resistance to ground
- 7 If all circuits and sensor test good, diagnose or replace the TCM as a last resort

Don't Replace the Sensor Before Checking These

- A short to power in the signal circuit often mimics a failed sensor, so always check for voltage on the signal wire with the sensor disconnected before condemning the sensor.
Corroded or loose connector pins at the transmission pass-through connector can cause high voltage readings that come and go with temperature or vibration.
- Low or degraded transmission fluid can cause pressure fluctuations that set this code without any electrical fault, so fluid condition is a critical first check.
- Some vehicles use a shared reference voltage for multiple pressure sensors; a fault in one sensor can affect the readings of others and set multiple codes.
The code may be stored as pending or history without turning on the MIL if the fault is intermittent, so always clear and recheck after repairs.

Can I keep driving with P083D?

It is generally safe to drive with this code if the transmission shifts normally, but avoid heavy loads or aggressive driving until diagnosed. If the transmission enters limp mode or shifts harshly, seek professional service promptly to prevent further damage.

Tools that help

- OBD-II scan tool with transmission diagnostic capability
- Digital multimeter (DMM)
- Wire probe set or back-probe kit
- Transmission fluid level dipstick or scan tool for fluid level
- Service manual with wiring diagrams for the specific vehicle



Reading P083D

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

Often seen with

P0715 Input/Turbine Speed Sensor Circuit Malfunction · **P083B** Transmission Fluid Pressure Sensor/Switch G Circuit Range/Pe · **P083C** Transmission Fluid Pressure Sensor/Switch G Circuit Low · **P0842** Transmission Fluid Pressure Sensor/Switch 'A' Circuit Low · **P0843** Transmission Fluid Pressure Sensor/Switch 'A' 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/p083d/>

