

GENERIC · POWERTRAIN

P2639

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P2639

Torque Management Feedback Signal 'A' Low

P2639 indicates that the powertrain control module (PCM) has detected an abnormally low voltage on the torque management feedback signal 'A' circuit, which is used to monitor the actual torque delivered by the engine or transmission during torque reduction requests. The PCM compares the feedback signal to the commanded torque and sets this code when the feedback voltage stays below the expected threshold for a calibrated time.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Professional

AREA

Computer and output circuits

Symptoms you may notice

- Illumination of the check engine light, often with no other noticeable symptoms
- Hesitation or stumble during acceleration, especially when the PCM commands torque reduction
- Harsh or delayed transmission shifts as torque management intervention becomes erratic
- Reduced engine power or limp mode in some vehicles when the fault is severe
- Poor fuel economy or increased emissions due to improper torque control

Common causes, most likely first

- 1 Damaged or corroded wiring or connector at the torque management feedback sensor or PCM
- 2 Faulty torque management feedback sensor (often a torque sensor or transmission input shaft speed sensor)
- 3 Open or short to ground in the feedback signal circuit
- 4 PCM internal fault or software calibration issue
- 5 Poor ground connection for the sensor or PCM
- 6 Aftermarket electronic modifications or improper repairs affecting the circuit



How to diagnose and fix it

- 1 Inspect the torque management feedback sensor and its connector for physical damage, corrosion, or loose pins
- 2 Check the feedback signal circuit for continuity and short to ground using a digital multimeter
- 3 Verify the sensor reference voltage and ground circuits are within specification
- 4 Compare live data for commanded torque versus feedback signal to confirm the fault
- 5 Repair or replace damaged wiring or connectors as needed
- 6 Replace the torque management feedback sensor if testing indicates it is faulty
- 7 Reprogram or replace the PCM only after all other causes have been ruled out

Torque Management Feedback Signal Pitfalls

- A low feedback signal can be caused by a simple chafed wire hidden under the air intake duct, so always perform a thorough visual inspection before condemning the sensor.
- Some vehicles use the same signal for multiple torque management functions, so a failure may also set codes for traction control or stability control that can distract from the root cause.
- The PCM may substitute a default torque value when the feedback signal is low, masking the fault and making the vehicle drive almost normally until conditions trigger a limp mode.
- Aftermarket tuners or piggyback modules that intercept torque signals are a common cause of this code on modified vehicles, and removing them may resolve the issue without further repair.
- A weak battery or charging system can cause voltage drops that mimic a low feedback signal, so always check battery and ground integrity before replacing expensive components.

Can I keep driving with P2639?

The vehicle may remain driveable, but torque management faults can affect transmission shift quality and engine power delivery, so avoid aggressive acceleration or heavy towing until the issue is repaired. If the check engine light is flashing or the vehicle enters limp mode, stop driving and seek professional diagnosis.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Wiring diagram for the specific vehicle
- Basic hand tools for connector and sensor access
- Oscilloscope for signal waveform analysis (optional)



Reading P2639

- P** Powertrain: engine, transmission and emissions.
- 2** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 6** Computer and output circuits.
- 39** The exact fault within that area.

Often seen with

P0606 PCM Processor Fault · **P0700** Transmission Control System Malfunction · **P2638** Torque Management Feedback Signal 'A' Range/Performance · **P2640** Torque Management Feedback Signal 'A' High · **P2641** Torque Management Feedback Signal 'B'

See it working

Watch the animated explainer [How an Oxygen Sensor Works: Live 3D Cutaway](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p2639/>

