

GENERIC · POWERTRAIN

P2640

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P2640

Torque Management Feedback Signal 'A' High

P2640 indicates that the powertrain control module (PCM) has detected an abnormally high voltage on the torque management feedback signal 'A' circuit, which is typically a dedicated wire from a torque sensor or actuator to the PCM. The PCM uses this signal to monitor and adjust engine torque during gear shifts and other events, and a high signal suggests a short to voltage, an open ground, or a faulty sensor.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Intermediate	Computer and output circuits

Symptoms you may notice

- Illumination of the check engine light (malfunction indicator lamp) with no other noticeable symptoms.
- Harsh or delayed transmission shifts due to incorrect torque management intervention.
- Reduced engine power or a limp-home mode in some vehicles.
- Inconsistent throttle response or hesitation during acceleration.
- Possible activation of other stability or traction control warnings if the system shares torque data.

Common causes, most likely first

- Faulty torque management feedback sensor or actuator.
- Short to voltage on the signal circuit (e.g., chafed wire contacting a power source).
- Open or high-resistance ground connection for the sensor.
- Damaged or corroded connector pins at the sensor or PCM.
- Internal PCM fault causing incorrect signal interpretation.
- Aftermarket electronic modifications (e.g., piggyback tuners) interfering with the signal circuit.



How to diagnose and fix it

- 1 Use a scan tool to verify the code and check for any related pending or history codes.
- 2 Inspect the torque management feedback sensor and its connector for physical damage, corrosion, or loose pins.
- 3 Perform a voltage drop test on the signal circuit and ground circuit to identify opens or high resistance.
- 4 Disconnect the sensor and measure resistance or voltage according to the manufacturer's specification to test the sensor itself.
- 5 Check for continuity between the signal wire and other circuits to rule out a short to voltage.
- 6 If the sensor and wiring test good, substitute a known-good PCM to rule out internal PCM failure.
- 7 Clear the code and perform a road test to verify the repair and ensure the code does not return.

Torque Management Feedback Signal Pitfalls

- A common oversight is assuming the torque sensor is bad when the real problem is a chafed wire harness near hot exhaust components or sharp metal edges.
Some vehicles use a shared ground for multiple sensors; a bad ground can cause P2640 along with other unrelated codes, leading to misdiagnosis.
- Aftermarket performance tuners that intercept torque signals can set this code even if all factory components are functioning correctly.
- The PCM may set P2640 as a result of a failing transmission control module (TCM) on vehicles where torque management is coordinated between modules.

A high signal can be caused by a poor connection at the PCM connector, which is often overlooked during visual inspections.

Can I keep driving with P2640?

The vehicle may enter limp mode or exhibit harsh shifting, which can affect drivability and safety. It is advisable to avoid aggressive acceleration and have the fault diagnosed promptly; continued driving with a torque management fault could lead to transmission damage over time.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Wiring diagram for the specific vehicle
- Basic hand tools (socket set, screwdrivers)
- Electrical contact cleaner and dielectric grease



Reading P2640

- 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.
- 40** The exact fault within that area.

Often seen with

P0700 Transmission Control System Malfunction · **P0715** Input/Turbine Speed Sensor Circuit Malfunction · **P2639** Torque Management Feedback Signal 'A' Low · **P2641** Torque Management Feedback Signal 'B' · **P2642** Torque Management Feedback Signal 'B' Range/Performance

See it working

Watch the animated explainer [How Airbags Work: A 50 km/h Crash in Slow Motion](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p2640/>

