

GENERIC · NETWORK

U0429

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0429

Invalid Data Received From Steering Column Control Module

U0429 is a communication fault where the module that coordinates steering column functions (the Steering Column Control Module, SCCM) sends data that other modules on the vehicle's Controller Area Network (CAN) bus consider invalid or out of range. The code does not necessarily mean the SCCM has failed; it means the receiving module rejected the data as untrustworthy, often due to wiring, power, or software issues.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	Medium	Professional	Invalid data received from a module

Symptoms you may notice

- Illumination of the anti-lock brake (ABS) or traction control warning light, as these systems rely on steering angle data.
- The steering angle sensor (SAS) may be inoperative, causing stability control and hill assist features to disable.
- Turn signals, wipers, or cruise control buttons on the steering column may behave erratically or stop working.
- A message such as 'Service StabiliTrak' or 'Traction Control Off' may appear on the driver information center.
- Often no symptoms besides the warning light, especially if the invalid data is intermittent and does not affect critical functions.

Common causes, most likely first

- 1 Corroded, loose, or damaged wiring or connectors at the SCCM or along the CAN bus.
- 2 Low or unstable battery voltage or a failing charging system causing modules to send corrupted data.
- 3 A faulty steering angle sensor (SAS) inside the SCCM sending out-of-range values.
- 4 Water intrusion into the SCCM connector or housing, leading to intermittent signal faults.
- 5 Software incompatibility or a need for a module reflash or calibration after battery replacement or suspension work.
- 6 A failing SCCM itself, though this is less common than wiring or power issues.
- 7 A shorted or open CAN bus circuit that affects communication between the SCCM and other modules.



How to diagnose and fix it

- 1 Perform a full scan of all modules to identify any additional communication or voltage codes that may point to a root cause.
- 2 Inspect and test the battery, charging system, and ground connections to rule out low voltage as the source of invalid data.
- 3 Visually inspect the SCCM connectors and wiring for corrosion, water intrusion, or loose pins, and repair as needed.
- 4 Check the CAN bus integrity with a multimeter or oscilloscope to confirm proper voltage levels and no shorts.
- 5 Recalibrate or reflash the SCCM using a factory scan tool if software or calibration is suspect.
- 6 Replace the steering angle sensor or SCCM only after all wiring and power checks pass, then perform calibration.
- 7 Clear the code and road-test the vehicle to verify the repair and ensure the code does not return.

Before you replace the steering column module

- A weak battery or poor ground can cause the SCCM to send invalid data without any hard fault, so always load-test the battery first.
- The code often sets after suspension work or an alignment because the steering angle sensor needs recalibration, not replacement.
- Water leaks from the windshield or cowl can corrode the SCCM connector, causing intermittent U0429 without obvious symptoms.
- Some vehicles require a software update to the SCCM or gateway module to correct data reporting errors that trigger this code.
- U0429 can be a secondary code set by a failing ABS module or a CAN bus fault elsewhere, so do not assume the SCCM is the culprit.

Can I keep driving with U0429?

If the vehicle drives normally and only the warning light is on, you can drive cautiously to a repair shop, but avoid relying on stability control or traction control features. If the steering feels abnormal, the ABS light is on, or multiple warning lights are illuminated, stop driving and have the vehicle towed to prevent loss of driver aids.

Tools that help

- OBD-II scan tool with CAN bus capability and module-specific diagnostics
- Digital multimeter for voltage and resistance checks
- Oscilloscope for CAN bus signal analysis
- Factory service information for wiring diagrams and calibration procedures
- Battery load tester and charging system tester
- Trim removal tools for accessing the steering column control module



Reading U0429

- U** Network: communication between the vehicle's control modules.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 4** Invalid data received from a module.
- 29** The exact fault within that area.

Often seen with

C0051 Front Left ABS Solenoid 1 Circuit Malfunction · **U0126** Lost Communication With Steering Angle Sensor Module · **U0140** Lost Communication With Instrument Panel Cluster · **U0428** Invalid Data Received From Steering Angle Sensor Module · **U0430** Invalid Data Received From Tire Pressure Monitor Module

See it working

Watch the animated explainer [Fuel Trims Explained: Short-Term and Long-Term](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0429/>

