

GENERIC · NETWORK

U0434

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0434

Invalid Data Received From Active Roll Control Module

U0434 means the vehicle's network has lost valid data from the Active Roll Control Module, which is the computer that manages the active stabilizer bars to reduce body roll during cornering. The module that receives this data, typically the chassis control module, has detected missing, corrupted, or implausible messages from the roll control module over the CAN (Controller Area Network) bus.

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

Symptoms you may notice

- A warning light for the stability or suspension system, often accompanied by a generic 'chassis control fault' message.
- The vehicle may handle differently in corners, feeling less planted or exhibiting more body roll than usual.
- The active roll control system may default to a stiff or soft setting, reducing ride comfort or cornering composure.
- Often no symptoms besides the warning light, especially if the failure is intermittent.
- Other chassis-related warnings, such as traction control or adaptive damping faults, may appear if the roll control module shares data with those systems.
- In some cases, the vehicle may enter a limp mode for the chassis system, limiting performance features.

Common causes, most likely first

- A faulty or failing Active Roll Control Module, often due to internal electronic failure or water intrusion.
- Damaged or corroded wiring and connectors in the CAN bus circuit between the roll control module and the receiving module.
- Low battery voltage or a weak charging system, which can cause modules to drop off the network intermittently.
- A software or calibration issue in the roll control module or the receiving module, requiring a reflash or update.
- A shorted or open CAN bus line, sometimes caused by chafed wiring or a failed component on the bus.
- A poor ground connection for the roll control module, leading to unreliable communication.
- Aftermarket accessories or improper electrical repairs that disturb the CAN bus integrity.



How to diagnose and fix it

- 1 Verify battery voltage and charging system performance, as low voltage is a common cause of intermittent communication faults.
- 2 Inspect the wiring and connectors at the Active Roll Control Module for corrosion, damage, or loose pins.
- 3 Check for continuity and resistance on the CAN bus lines between the roll control module and the module that set the code, looking for opens or shorts.
- 4 Use a scan tool to check for other communication codes and to perform a network integrity test if available.
- 5 If wiring is intact, substitute a known-good Active Roll Control Module or perform a module swap to see if the code follows the module.
- 6 Check for technical service bulletins or software updates for the roll control module and perform a reprogramming if applicable.
- 7 After repairs, clear the code and verify communication is restored by test-driving the vehicle and monitoring live data.

Before replacing the roll control module

- A weak battery or failing alternator often causes U0434 because modules may reset or drop off the CAN bus when voltage dips during cranking or under load.
- Corroded connectors at the roll control module are a frequent culprit, especially on vehicles driven in wet or salty conditions, and are often overlooked in favor of module replacement.
- The code can be set by a faulty receiving module rather than the roll control module itself, so swapping parts without testing the network can be an expensive misstep.
- Aftermarket electrical accessories, such as alarm systems or dash cams, tapped into the CAN bus can introduce interference that corrupts data and sets U0434.
- A roll control module that has been disconnected or had its power interrupted during service may store U0434 until the code is cleared and a full drive cycle is completed.

Can I keep driving with U0434?

You can usually drive the vehicle with U0434 set, but be aware that the active roll control system may be disabled, which can affect handling and stability during sudden maneuvers. Avoid aggressive cornering or towing until the fault is repaired, and address the issue promptly to prevent further chassis system degradation.

Tools that help

- OBD-II scan tool with CAN bus capability and live data
- Digital multimeter for voltage, resistance, and continuity checks
- Wiring diagram for the specific vehicle to trace CAN bus circuits
- Battery load tester and charging system tester
- Socket set and trim removal tools for accessing modules and connectors



Reading U0434

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

Often seen with

C0050 Right Rear Wheel Speed Sensor Circuit Malfunction · **U0122** Lost Communication With Vehicle Dynamics Control Module · **U0125** Lost Communication With Multi-axis Acceleration Sensor Modul · **U0126** Lost Communication With Steering Angle Sensor Module · **U0140** Lost Communication With Instrument Panel Cluster

See it working

Watch the animated explainer [How a Car Thermostat Works: Wax Pellet and Cooling Fan](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0434/>

