

GENERIC · CHASSIS

C0499

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

C0499

Lateral Acceleration Sensor Range/Performance

C0499 means the vehicle's stability control module has detected that the lateral acceleration sensor is producing a signal outside its expected range or behaving erratically during a self-test or while driving. The sensor measures side-to-side cornering force, and the module compares that signal against other motion sensors to confirm the vehicle is responding as expected.

SYSTEM

Chassis

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Brakes, steering and suspension

Symptoms you may notice

- Traction control or stability control warning light illuminated on the dashboard
- Anti-lock brake system (ABS) warning light on, often because stability control shares the same module
- Stability control system disabled, with a message such as 'Service StabiliTrak' or 'VDC Off'
- Unexpected brake intervention or throttle reduction during normal cornering
- Often no symptoms besides the warning light, with the vehicle driving normally
- Cruise control refusing to engage on some vehicles because stability control is unavailable

Common causes, most likely first

- 1 Lateral acceleration sensor internally faulty or contaminated
- 2 Damaged or corroded wiring harness or connector at the sensor
- 3 Sensor mounting bracket loose or disturbed, changing its zero reference
- 4 Low or uneven tire pressures causing the vehicle to corner differently than the sensor expects
- 5 Wheel alignment or suspension wear altering the vehicle's actual yaw versus measured lateral acceleration
- 6 Failed calibration or zero-point memory in the stability control module
- 7 Stability control module internal fault or corrupted software



How to diagnose and fix it

- 1 Check all four tire pressures and adjust to the door-jamb specification, then clear the code and road test
- 2 Inspect the lateral acceleration sensor connector and wiring for corrosion, chafing, or loose pins
- 3 Verify the sensor is mounted securely and has not been disturbed or replaced without calibration
- 4 Use a scan tool to read live lateral acceleration data while cornering and compare it with expected values
- 5 Perform the manufacturer's zero-point calibration procedure for the lateral acceleration sensor
- 6 Check wheel alignment and inspect suspension components for wear that would skew the sensor reading
- 7 If the sensor signal remains out of range after wiring and calibration checks, replace the lateral acceleration sensor and recalibrate

Why this code often is not the sensor

- A loose sensor bracket or a sensor that was removed during suspension work without recalibration is a very common cause of C0499 that gets missed because the sensor itself tests fine.
- Uneven tire pressures or a mismatched tire size can make the vehicle corner differently enough that the stability module flags the lateral acceleration signal as implausible.
- The lateral acceleration sensor is frequently combined with the yaw rate sensor in one unit, so a yaw rate code may accompany C0499 even though the root fault is shared hardware.
- Some vehicles require a steering angle sensor calibration after battery replacement or alignment, and a skipped calibration can trigger C0499 indirectly.
- A stability control module that has lost its calibration memory may set C0499 without any physical sensor fault, so calibration should be attempted before parts replacement.

Can I keep driving with C0499?

You can usually drive the vehicle, but stability control and sometimes anti-lock braking assistance will be reduced or disabled, so avoid aggressive cornering, towing, or slippery conditions until the fault is repaired. If the brake pedal feels abnormal or the ABS light is also on, have the vehicle inspected promptly.

Tools that help

- OBD-II scan tool with live data and stability control calibration capability
- Digital multimeter for checking sensor wiring and reference voltage
- Tire pressure gauge
- Wheel alignment equipment or a professional alignment check
- Basic hand tools for inspecting sensor mounting and connectors



Reading C0499

- C** Chassis: brakes, steering and suspension.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 4** Brakes, steering and suspension.
- 99** The exact fault within that area.

Often seen with

C0050 Right Rear Wheel Speed Sensor Circuit Malfunction · **C0051** Front Left ABS Solenoid 1 Circuit Malfunction · **C0498** Lateral Acceleration Sensor Circuit · **C0500** Anti-lock Brake System Disabled · **U0125** Lost Communication With Multi-axis Acceleration Sensor Modul

See it working

Watch the animated explainer [Car Won't Start? Step-by-Step No-Start Diagnosis](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/c0499/>

