

GENERIC · CHASSIS

C0069

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

C0069

Yaw Rate/Longitude Sensors

C0069 indicates that the electronic stability control (ESC) module has detected a fault in the yaw rate sensor, the longitudinal acceleration sensor, or their shared circuitry. The computer compares these sensor signals against each other and against expected values from the wheel speed and steering angle sensors, and it sets this code when the correlation falls outside the programmed limits.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Chassis	Generic (all makes)	Medium	Professional	Brakes, steering and suspension

Symptoms you may notice

- The stability control (ESC) warning light illuminates steadily on the dashboard.
- The traction control system may be disabled, and the ESC off indicator may also come on.
- A message such as 'Service StabiliTrak' or 'ESC System Fault' may appear in the driver information center.
- The vehicle may feel unstable or pull to one side during hard cornering or emergency maneuvers.
- Often no symptoms besides the warning light, with normal driving behavior otherwise.
- In some cases, the antilock braking system (ABS) light may also illuminate if the fault affects shared sensor data.

Common causes, most likely first

- A faulty yaw rate sensor or longitudinal acceleration sensor, often due to internal electronic failure or contamination.
- Damaged, corroded, or loose wiring and connectors at the sensor or the ESC module.
- A poor ground connection for the ESC module or the sensor return circuit.
- Low battery voltage or a weak charging system causing erratic sensor signals.
- A failed or improperly calibrated steering angle sensor, which the ESC uses for comparison.
- A software issue or internal fault in the ESC control module.
- Aftermarket suspension modifications or a misaligned vehicle that alters the sensor's expected readings.



How to diagnose and fix it

- 1 Verify battery voltage and charging system performance, as low voltage can cause false sensor codes.
- 2 Inspect the yaw rate and longitudinal acceleration sensor connectors and wiring for corrosion, damage, or looseness.
- 3 Check the ESC module grounds and power feeds for integrity and clean any corroded connections.
- 4 Use a scan tool to read live sensor data and compare yaw rate and longitudinal acceleration readings with known good values during a test drive.
- 5 Perform a zero-point calibration of the yaw rate and longitudinal acceleration sensors according to the manufacturer's procedure.
- 6 If sensor data is erratic or out of range, replace the faulty sensor and recalibrate the system.
- 7 If all sensors and wiring check out, diagnose or reprogram the ESC module, and replace it only as a last resort.

Yaw sensor faults that fool good technicians

- A misaligned steering angle sensor or a steering wheel that is off-center can set C0069 because the ESC module cross-checks yaw rate against steering input.
- Low battery voltage or a weak alternator often triggers C0069 and other sensor codes without any actual sensor failure, so always check the charging system first.
- Aftermarket suspension lifts or lowering kits change the vehicle's center of gravity and can cause the yaw rate sensor to report values outside the expected range, setting the code.
- The yaw rate and longitudinal acceleration sensors are sometimes combined in one module, and a fault in either sensor can set C0069, so do not replace one without testing both.
- A dirty or damaged wheel speed sensor or tone ring can indirectly set C0069 because the ESC module uses wheel speed data to validate yaw rate readings.

Can I keep driving with C0069?

You can usually drive the vehicle with C0069 set, but the stability control system may be disabled, which reduces safety in emergency maneuvers. Avoid aggressive driving, sharp turns, and slippery conditions until the fault is repaired, and have the system diagnosed promptly.

Tools that help

- OBD-II scan tool with live data and ESC calibration capability
- Digital multimeter for voltage and continuity checks
- Battery load tester and charging system tester
- Manufacturer-specific diagnostic software or scan tool for calibration procedures
- Wiring diagram and connector pinout for the ESC system



Reading C0069

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

Often seen with

C0040 Left Rear Wheel Speed Sensor Circuit · **C0045** Left Rear Wheel Speed Sensor Circuit Malfunction · **C0050** Right Rear Wheel Speed Sensor Circuit Malfunction · **C0051** Front Left ABS Solenoid 1 Circuit Malfunction · **U0126** Lost Communication With Steering Angle Sensor Module

See it working

Watch the animated explainer [How a Radiator Fan Relay Circuit Works](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/c0069/>

