

GENERIC · CHASSIS

C0615

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

C0615

ESC Calibration Required

C0615 indicates that the Electronic Stability Control (ESC) module has determined its calibration values are missing, invalid, or not learned, so it cannot reliably command stability interventions. The computer has detected that the calibration memory does not contain a valid set of parameters for the current vehicle configuration, which typically happens after module replacement, software flashing, or a configuration mismatch.

SYSTEM

Chassis

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Professional

AREA

Brakes, steering and suspension

Symptoms you may notice

- ESC warning light or stability control telltale illuminated steadily on the dashboard
- Traction control and ABS warning lights may also be on because these systems share the same module
- Stability control and traction control functions are disabled, so the vehicle will not intervene during a skid
- Often no symptoms besides the warning light, with normal braking and driving behavior otherwise
- A message such as 'ESC unavailable' or 'Service ESC' displayed in the driver information center
- Cruise control may be inhibited on some vehicles as a consequence of the ESC fault

Common causes, most likely first

- 1 ESC module replaced or reprogrammed without performing the required calibration or configuration procedure
- 2 Calibration memory corrupted by a low-voltage event, jump start, or battery replacement
- 3 Incorrect software or calibration file flashed into the ESC module for the vehicle's configuration
- 4 Wiring or connector fault at the ESC module causing loss of power or communication during a calibration attempt
- 5 Steering angle sensor or yaw rate sensor not initialized after suspension, steering, or alignment work
- 6 Aftermarket or mismatched ABS/ESC components installed that do not carry the correct calibration data
- 7 Internal ESC module fault that prevents calibration values from being stored or retained



How to diagnose and fix it

- 1 Scan all modules for stored and pending codes, and record the full code set before clearing anything
- 2 Verify battery voltage and charging system health, then clear codes and recheck whether C0615 returns immediately
- 3 Inspect the ESC module connectors and grounds for corrosion, loose pins, or water intrusion
- 4 Use a factory-level scan tool to check the ESC module's calibration and configuration status and confirm whether calibration is actually missing
- 5 Perform the manufacturer's calibration or configuration procedure, including steering angle sensor and yaw rate sensor initialization where required
- 6 If calibration will not complete, check for communication faults on the CAN bus and repair any wiring issues before retrying
- 7 If the module will not accept or retain calibration, replace and program the ESC module with the correct software, then repeat calibration

Why clearing the code will not fix it

- C0615 is a configuration or calibration status code, not a sensor failure code, so replacing wheel speed sensors or other parts will not resolve it.
- A weak battery or a voltage drop during a previous programming event is a common hidden cause, and the code may only appear after the battery has already been replaced.
- Some vehicles require a steering angle sensor learn and a short drive cycle before the ESC module will accept calibration, so a calibration that appears to fail may simply be incomplete.
- Aftermarket scan tools often cannot perform ESC calibration, leading owners to believe the module is faulty when the tool is the limitation.
- The same code can set after a wheel alignment or suspension repair if the steering angle sensor center point was not reset, even though no module was replaced.

Can I keep driving with C0615?

The vehicle remains safe to drive under normal conditions because the base braking system is unaffected, but stability and traction control assistance are unavailable. Avoid aggressive driving, towing, or slippery conditions until the calibration is restored, and have the fault addressed promptly.

Tools that help

- Factory-level or enhanced scan tool capable of ESC calibration and configuration
- Digital multimeter for voltage and continuity checks
- Battery charger or power supply to maintain stable voltage during programming
- Basic hand tools for connector and ground inspection
- Wiring diagram or service information for the ESC module circuits



Reading C0615

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

Often seen with

C0050 Right Rear Wheel Speed Sensor Circuit Malfunction · **C0616** Park Brake Control Module Control Circuit Performance · **C0617** Park Brake Control Module Control Circuit Low · **C0618** Park Brake Control Module Control Circuit High · **U0122** Lost Communication With Vehicle Dynamics Control Module

See it working

Watch the animated explainer [How a Turbocharger Works, Step by Step](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/c0615/>

