

GENERIC · NETWORK

U0415

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0415

Invalid Data Received From Anti-Lock Brake System Control Module

U0415 means the module that coordinates your vehicle's network received data from the anti-lock brake system (ABS) control module that it judged invalid or implausible. The ABS module is alive and communicating, but the content of its messages is missing expected values, out of range, or inconsistent with other data on the bus.

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

Symptoms you may notice

- Anti-lock brake system (ABS) warning light illuminated on the dashboard
- Traction control or stability control warning light on, often together with the ABS light
- Often no symptoms besides the warning light, with normal braking feel
- Disabled ABS, traction control, or stability control functions during the fault
- Intermittent warning lights that come and go with temperature or vibration
- A stored U0415 with no other drivability complaints

Common causes, most likely first

- 1 Corroded, loose, or damaged ABS module connector or pins
- 2 Chafed, shorted, or open controller area network (CAN) bus wiring between the ABS module and the network gateway
- 3 Failing ABS control module internal circuitry or software
- 4 Low or unstable battery voltage causing the ABS module to transmit corrupted data
- 5 Poor ground connection at the ABS module or chassis ground point
- 6 Another module on the bus flooding the network and corrupting ABS messages
- 7 Aftermarket electrical accessories or improper repairs disturbing the CAN bus



How to diagnose and fix it

- 1 Scan all modules for stored codes and record freeze-frame data before clearing anything
- 2 Inspect the ABS module connector and pins for corrosion, looseness, or pushed-out terminals
- 3 Test battery voltage and charging system output, then load-test the battery
- 4 Check CAN bus wiring between the ABS module and the gateway for opens, shorts, and chafing
- 5 Verify ABS module ground circuit resistance and clean or tighten ground points
- 6 Perform a wiggle test on the ABS harness while watching live data for dropouts
- 7 If wiring and power are good, reprogram or replace the ABS control module and recheck

Why U0415 is often a wiring fault

- U0415 is a communication content fault, not a hard ABS failure, so the ABS module can still pass a basic ping test while sending invalid data.
- A weak battery or failing alternator is a common hidden cause because low voltage corrupts the messages the ABS module transmits.
- Technicians who replace the ABS module first often find the real problem is a corroded connector or chafed CAN wire.
- Another module shorting the bus can corrupt ABS messages and set U0415 even though the ABS module itself is healthy.
- Clearing the code without checking freeze-frame data can erase the conditions that would identify the true cause.

Can I keep driving with U0415?

The vehicle usually remains drivable with normal base braking, but ABS, traction control, and stability control may be disabled. Avoid hard braking, slippery surfaces, and towing until the fault is diagnosed, and repair it promptly because safety systems are affected.

Tools that help

- OBD-II scan tool with full module access and live data
- Digital multimeter
- CAN bus breakout box or oscilloscope
- Battery load tester
- Wiring diagram for the ABS and network circuits
- Terminal pick and contact cleaner



Reading U0415

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

Often seen with

C0035 Left Front Wheel Speed Sensor Circuit Range/Performance · **C0040** Left Rear Wheel Speed Sensor Circuit · **U0100** Lost Communication With ECM/PCM A · **U0121** Lost Communication With Anti-Lock Brake System (ABS) Control · **U0416** Invalid Data Received From Vehicle Dynamics Control Module

See it working

Watch the animated explainer [How ABS Works: Anti-Lock Brakes in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0415/>

