

GENERIC · NETWORK

U3019

OBD-II TROUBLE CODE

U3019

Control Module Input Power Circuit B/C Correlation

U3019 is a generic network communication code indicating that a control module has detected a correlation fault between its input power circuits B and C, meaning the voltages or signals on these two power feeds do not agree with expected values. The module compares the two inputs and sets this code when the difference exceeds a calibrated threshold, often due to a wiring, connector, or power supply issue rather than an internal module failure.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	Medium	Intermediate	Network wiring and bus faults

Symptoms you may notice

- Illumination of the malfunction indicator lamp (MIL) or a module-specific warning light
- Often no symptoms besides the warning light, especially if the fault is intermittent
- Intermittent electrical glitches such as flickering lights, radio resets, or erratic gauge behavior
- Multiple unrelated trouble codes stored in various modules due to shared power feeds
- A no-start condition or stalling if the affected module loses power entirely
- Reduced functionality of systems controlled by the affected module, such as climate control or lighting

Common causes, most likely first

- 1 Corroded, loose, or damaged connectors at the module or power distribution point
- 2 Chafed or broken wires in the power circuit B or C harness, often near sharp edges or heat sources
- 3 Blown or improperly rated fuses in the power feed circuits
- 4 Faulty power distribution module or relay supplying the circuits
- 5 Voltage drop across a shared ground connection causing inconsistent reference voltages
- 6 Internal fault in the control module affecting its power input sensing circuitry
- 7 Aftermarket accessories improperly tapped into the power circuits, altering load characteristics



How to diagnose and fix it

- 1 Retrieve all stored codes and freeze-frame data to identify which module set U3019 and any related codes
- 2 Visually inspect the module connectors and power distribution area for corrosion, loose pins, or damaged wiring
- 3 Check the fuses and relays for circuits B and C, verifying correct rating and continuity
- 4 Perform voltage drop tests on both power circuits under load to compare actual voltages at the module
- 5 Wiggle-test the harness while monitoring live data to reveal intermittent opens or shorts
- 6 Repair or replace damaged wiring, connectors, or fuses as needed, then clear codes and verify the fault is gone
- 7 If all external circuits test good, substitute a known-good module or perform a module reprogramming before replacement

Power circuit correlation faults often misdiagnosed

- Many technicians replace the control module prematurely when the real cause is a voltage drop on one power feed due to a corroded ground or fuse box terminal.
- U3019 can be set by a weak battery or charging system issue that causes momentary voltage sags, so always load-test the battery and check charging voltage first.
- The code does not always indicate a hard failure; intermittent faults from vibration or temperature changes may require extensive wiggle-testing and data logging.
- Aftermarket alarms, remote starters, or audio equipment tapped into factory power circuits frequently disturb the correlation between B and C inputs.
- A module that sets U3019 may still function normally, but the underlying power issue can cause other modules to set unrelated codes, leading to misdiagnosis.

Can I keep driving with U3019?

If the vehicle runs and drives normally, you can drive it to a repair shop, but avoid long trips or heavy electrical loads until the fault is diagnosed. If the engine stalls, won't start, or multiple warning lights appear, stop driving and have the vehicle towed to prevent safety risks.

Tools that help

- OBD-II scan tool with live data and freeze-frame capability
- Digital multimeter with voltage drop and continuity functions
- Wiring diagram for the affected module and power distribution
- Test light or load probe for circuit testing
- Trim removal tools for accessing harnesses and connectors



Reading U3019

- U** Network: communication between the vehicle's control modules.
- 3** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 0** Network wiring and bus faults.
- 19** The exact fault within that area.

Often seen with

U3000 Control Module · **U3001** Control Module Improper Shutdown Performance · **U3002** Vehicle Identification Number · **U3003** Battery Voltage · **U3010** Ignition Input Start

See it working

Watch the animated explainer [How a Jet Engine Works: Two-Spool Turbofan](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u3019/>

