

GENERIC · NETWORK

U01BF

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U01BF

Lost Communication with Battery Management Control Module

U01BF means the vehicle's main computers have lost contact with the Battery Management Control Module over the high-speed communication network. The module that watches over the high-voltage battery pack has stopped reporting its voltage, temperature, and state-of-charge data, so other controllers set this code when the expected messages fail to arrive.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	High	Professional	Lost communication with a control module

Symptoms you may notice

- Illuminated check engine light or service vehicle soon message on the dash
- Often no symptoms besides the warning light when the fault is intermittent
- High-voltage battery gauge showing dashes, zero, or an implausible value
- Vehicle refusing to enter Ready mode or start, especially on hybrid and electric models
- Reduced power, limp-home mode, or a message to service the high-voltage system
- Charging system warning or the car failing to accept a charge

Common causes, most likely first

- 1 Loose, corroded, or damaged connector at the battery management control module
- 2 Broken, chafed, or shorted wire in the communication network between the module and the rest of the vehicle
- 3 Failed battery management control module, often due to internal circuit damage or water intrusion
- 4 Low or unstable 12-volt supply or a poor ground to the module, causing it to drop offline
- 5 Communication network fault such as a shorted data line or a failed network gateway
- 6 Aftermarket accessories or improper previous repairs disturbing the module's wiring



How to diagnose and fix it

- 1 Scan all modules and record every stored code, then verify whether other modules can still communicate with the battery management control module
- 2 Inspect the module's connectors and harness for corrosion, pushed pins, chafing, and loose terminals, and check the 12-volt feed and ground at the module
- 3 Measure network resistance and voltage on the communication lines to rule out a short or open circuit before condemning the module
- 4 Check for technical service bulletins and software updates for the module and network gateway, since communication glitches are sometimes corrected by a reflash
- 5 If wiring and power are good, substitute a known-good module or perform a module communication test to confirm the module itself has failed
- 6 After repair, clear codes and drive the vehicle through a complete power cycle to confirm the module stays online and the code does not return

Why the battery module drops offline

- A weak or failing 12-volt battery is a common hidden cause, because the battery management module may reset or drop off the network when supply voltage sags during cranking or load changes.
- This code does not automatically mean the high-voltage battery pack is bad; the fault is in the module or its communication path, and replacing the pack on this code alone is an expensive misdiagnosis.
- Water intrusion or corrosion at the module connector is frequently missed, especially on vehicles where the module is mounted low in the floor or near the battery pack.
- A single failed module on the network can pull down communication for other modules, so always check whether additional communication codes are stored before focusing on the battery management module.
- Aftermarket alarms, chargers, or dash cameras tapped into the wrong circuit can disturb the network and cause intermittent loss of communication that only appears under certain conditions.

Can I keep driving with U01BF?

Do not continue driving normally, because a vehicle that has lost battery management data may shut down, refuse to start, or fail to manage the high-voltage pack safely. Move the car to a safe location and have it diagnosed before driving further, especially if the dash shows a high-voltage or charging warning.

Tools that help

- OBD-II scan tool with full module communication and live data capability
- Digital multimeter for voltage, ground, and network resistance checks
- Wiring diagram and connector pinout for the battery management control module circuit
- Test light or load tester for verifying power and ground under load
- Insulated hand tools and connector release tools for safe harness work



Reading U01BF

- U** Network: communication between the vehicle's control modules.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 1** Lost communication with a control module.
- BF** The exact fault within that area.

Often seen with

P0AFA Hybrid/EV Battery System Voltage Low · **U0100** Lost Communication With ECM/PCM A · **U0140** Lost Communication With Instrument Panel Cluster · **U01BE** Lost Communication with Drive Motor A Clutch Actuator

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/u01bf/>

