



U0059

Vehicle Communication Bus D (+) High

U0059 is a generic network communication code indicating that the vehicle's main communication bus, often called the CAN (Controller Area Network) bus, has a short to voltage on the D (+) data line. The computer that set this code detected an abnormally high voltage on the positive data wire, which prevents reliable data exchange between control modules.

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

Symptoms you may notice

- Illumination of the check engine light or a dedicated communication warning light
- Multiple warning lights on the dashboard, such as ABS, traction control, and airbag
- Intermittent or complete failure of various electronic systems, including dashboard displays and climate control
- The engine may start and run, but other modules may be unresponsive
- Often no symptoms besides the warning light, especially if the fault is intermittent

Common causes, most likely first

- 1 A short to voltage on the CAN D (+) wire, often caused by chafed insulation contacting a power wire
- 2 A faulty control module internally shorting the D (+) line to battery voltage
- 3 Corrosion or damage in a connector that allows the D (+) terminal to touch a power terminal
- 4 Aftermarket accessories improperly wired into the CAN bus circuit
- 5 A defective CAN transceiver inside one of the modules on the network

How to diagnose and fix it

- 1 Use an OBD-II scan tool to read all stored codes and identify which modules are communicating and which are not
- 2 Visually inspect the CAN D (+) wiring harness for damage, chafing, or corrosion, especially near connectors and high-vibration areas
- 3 Disconnect the battery and measure resistance from the D (+) wire to battery positive and to ground to check for a short
- 4 Isolate modules one by one by disconnecting them and rechecking the bus voltage to see if the short disappears
- 5 Repair any damaged wiring or replace corroded connectors, then clear codes and verify communication is restored
- 6 If a module is found to be internally shorted, replace or repair that module and recheck the network



Don't replace modules before checking the wiring

- A common mistake is to replace the module that set the code, but the fault often lies in the wiring harness or a connector rather than the module itself.
- The D (+) line is one of two CAN bus wires; a short to voltage on it can be caused by a nearby power wire that has rubbed through its insulation.
- Aftermarket installations such as alarms, radios, or telematics devices are frequent culprits for introducing voltage into the CAN bus.
- Intermittent U0059 codes can be caused by loose pins in a connector that make contact only under certain vibration or temperature conditions.
- Some vehicles will set U0059 if the battery voltage is excessively high, so always check charging system voltage before diving into network diagnostics.

Can I keep driving with U0059?

If the vehicle runs and drives normally, you can drive it to a repair shop, but avoid relying on advanced driver aids and be prepared for possible communication failures. If multiple systems are malfunctioning or the engine stalls, stop driving and have the vehicle towed to prevent unsafe operation.

Tools that help

- OBD-II scan tool with live data and module communication capabilities
- Digital multimeter with voltage and resistance measurement
- Wiring diagram for the specific vehicle
- CAN bus breakout box or test light
- Insulation piercing probes or back probe pins

Reading U0059

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

Often seen with

U0001 Loss of Bus Communication · **U0002** High Speed CAN Communication Bus (Performance) · **U0058** Vehicle Communication Bus D (+) Low · **U0060** Vehicle Communication Bus D (-) Open · **U0100** Lost Communication With ECM/PCM A



See it working

Watch the animated explainer [How a MAP Sensor Works: Engine Vacuum and Load](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0059/>

