



U054C

Invalid Data Received From Seat Control Module G

U054C is a communication fault indicating that a control module on the vehicle's network received invalid or corrupted data from the seat control module designated as 'G'. The receiving module expected a valid data message from the seat control module but detected that the message contents were missing, out of range, or failed a checksum, so it flagged the data as invalid rather than trusting it.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	Low	Intermediate	Network communication

Symptoms you may notice

- The seat may not move in one or more directions, or may move erratically when a switch is pressed
- Memory seat positions may fail to recall or may move to the wrong position
- The seat heater or ventilation may not operate, or may turn on and off without command
- A warning light or message on the dash indicating a seat system or communication fault
- Other modules that share the network may log communication codes or show intermittent odd behavior
- Often no symptoms besides the warning light, especially if the invalid data is intermittent

Common causes, most likely first

- 1 A failing seat control module that is producing corrupted or out-of-range data messages
- 2 Damaged or chafed wiring in the seat harness, commonly at the flex point where the seat moves
- 3 Poor or corroded connector pins at the seat control module or at an inline harness connector under the seat
- 4 Low battery voltage or a weak charging system causing the seat module to transmit invalid data
- 5 A network communication fault, such as a shorted or open data bus wire, that corrupts the message before it reaches the receiving module
- 6 Software or calibration mismatch in the seat control module after a replacement or battery disconnect
- 7 Water intrusion into the seat control module or its connectors, leading to intermittent invalid data



How to diagnose and fix it

- 1 Verify battery voltage and charging system output, then clear the code and test-drive to see if it returns
- 2 Inspect the seat harness and connectors under the seat for chafing, corrosion, or loose pins, and repair as needed
- 3 Check the data bus wiring between the seat control module and the receiving module for shorts, opens, or excessive resistance
- 4 Use a scan tool to view live seat module data and confirm whether the module is communicating valid messages or dropping out
- 5 Perform any available software update or calibration for the seat control module per the manufacturer's procedure
- 6 Substitute a known-good seat control module of the same part number to confirm the fault follows the module
- 7 After repair, clear all codes and verify that U054C does not reset during a full seat operation cycle

Why seat module data goes invalid

- A seat control module can pass a basic communication test and still set U054C, because the code is about the quality of the data inside the message, not whether the module answers at all.
- The seat harness flexes every time the seat moves, so intermittent opens and chafed wires near the seat track are a very common cause that a static wiggle test can miss.
- Low battery voltage during engine cranking is a frequent trigger for invalid data codes across the network, so always check the battery before condemning the seat module.
- After replacing a seat control module, some vehicles require a configuration or calibration step; skipping it can leave the new module sending data the receiving module rejects.
- U054C can be stored by a module other than the seat module itself, so the module reporting the code is not always the one that needs repair.

Can I keep driving with U054C?

The vehicle remains safe to drive because the fault affects seat convenience functions rather than steering, braking, or airbag deployment. Avoid relying on memory seat recall until repaired, and address the code promptly if the seat is stuck in a position that impairs driving comfort or visibility.

Tools that help

- OBD-II scan tool with live data and network communication capability
- Digital multimeter for voltage, resistance, and continuity checks
- Wiring diagram and connector pinout for the seat control module circuit
- Trim removal tools for accessing seat harness and connectors
- Battery load tester or charging system tester



Reading U054C

- U** Network: communication between the vehicle's control modules.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 5** Network communication.
- 4C** The exact fault within that area.

Often seen with

U0100 Lost Communication With ECM/PCM A · **U0140** Lost Communication With Instrument Panel Cluster · **U0154** Lost Communication With Restraints Occupant Sensing Control · **U054B** Invalid Data Received From Interior Lighting Control Module · **U054D** Invalid Data Received From Seat Control Module H

See it working

Watch the animated explainer [Four-Stroke Engine Notebook: The Otto Cycle Explained](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u054c/>

