



U054E

Invalid Data Received From Seat Control Module J

This code means the module that coordinates your vehicle's network received data from the seat control module (the computer that moves the power seat) that it judged invalid or out of range. The fault is a communication data problem, not necessarily a failed seat motor, so the seat may still work normally while the warning light is on.

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

Symptoms you may notice

- Often no symptoms besides the warning light, with the power seat still moving normally in all directions
- The power seat may stop responding or move in only some directions
- Seat memory or easy-entry features may stop working or return to the wrong position
- Other modules on the same network may log communication codes or behave erratically
- Intermittent operation of the seat when the vehicle is cold, wet, or going over bumps

Common causes, most likely first

- 1 A weak or failing battery, or poor battery terminal connections, causing low voltage to the seat control module
- 2 Corroded, loose, or damaged wiring and connectors at the seat control module or under the seat where movement flexes the harness
- 3 Water intrusion into the seat control module or its connectors from a leak or spilled liquid
- 4 A failing seat control module that is sending corrupted or out-of-range data
- 5 A software or calibration issue in the seat control module or the module that receives its data
- 6 A fault in another module on the same network that corrupts communication and makes the seat data appear invalid



How to diagnose and fix it

- 1 Check the battery state of charge and clean and tighten the battery terminals before anything else
- 2 Inspect the seat control module connectors and the harness under the seat for corrosion, chafing, and loose pins
- 3 Clear the code and test-drive the vehicle, operating the seat through its full range, to see whether the code returns
- 4 Check for water intrusion around the seat control module and dry or replace damaged connectors
- 5 Verify power and ground at the seat control module with a multimeter and check the network wiring for continuity
- 6 If wiring and power are good, reflash or recalibrate the seat control module with factory software
- 7 Replace the seat control module only after ruling out power, ground, wiring, and software causes

Why the seat still works with this code

- A U054E code often sets because the receiving module saw a single out-of-range data frame, so the seat can work perfectly and the code may never return after clearing.
- Low battery voltage is a very common trigger on vehicles with power seats, because the seat control module can drop offline during engine cranking and send invalid data on the next wake-up.
- Technicians who replace the seat control module first frequently find the code returns, because the real fault was a corroded ground or a chafed wire under the seat.
- Spilled drinks and sunroof or window leaks often send water into the seat control module connectors, which corrupts the data without blowing any fuse.
- This code does not mean the seat motor or switch is bad, and it does not always mean the seat control module itself has failed.

Can I keep driving with U054E?

The vehicle is safe to drive because the fault affects seat convenience features, not steering, braking, or airbags. Avoid adjusting the seat repeatedly until the cause is found, and have the battery and under-seat wiring checked soon if the seat stops working or the warning light returns.

Tools that help

- OBD-II scan tool capable of reading body and network codes
- Digital multimeter
- Factory service information with wiring diagrams
- Trim removal tools
- Battery charger or tester



Reading U054E

- 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.
- 4E** The exact fault within that area.

Often seen with

U0100 Lost Communication With ECM/PCM A · **U0140** Lost Communication With Instrument Panel Cluster · **U0155** Lost Communication With Body Control Module · **U054D** Invalid Data Received From Seat Control Module H · **U054F** Invalid Data Received From Side Obstacle Detection Control M

See it working

Watch the animated explainer [How a Car Thermostat Works: Wax Pellet and Cooling Fan](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u054e/>

