

GENERIC · NETWORK

# U0529

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

## U0529

### Invalid Data Received From Door Window Motor G

U0529 is a vehicle network communication code indicating that a control module received invalid or corrupted data from the door window motor designated as 'G'. The computer detected a message from that motor that failed its internal validity checks, such as a missing checksum, out-of-range value, or malformed data frame, rather than a complete loss of communication.

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

#### Symptoms you may notice

- The window motor for the affected door may not operate at all or may move erratically.
- The window may fail to auto-up or auto-down, or reverse direction unexpectedly.
- A window switch may feel unresponsive or require multiple presses to work.
- The body control module may log additional communication codes for other door modules.
- Often no symptoms besides the warning light, especially if the invalid data is intermittent.
- The affected window may stop working after the vehicle sits overnight or in cold weather.

#### Common causes, most likely first

- Corroded or loose electrical connector at the door window motor 'G', allowing intermittent data signal corruption.
- Damaged or chafed wiring in the door jamb boot where the harness flexes with every door opening.
- Failed door window motor module 'G' internal electronics producing invalid CAN (Controller Area Network) messages.
- Low battery voltage or a weak charging system causing modules to send malformed data frames.
- Water intrusion into the door window motor connector or module housing, leading to signal degradation.
- A faulty body control module or gateway that misinterprets valid data from the window motor.
- Aftermarket window module or alarm installation splicing into the door network wiring incorrectly.



## How to diagnose and fix it

- 1 Inspect and clean the electrical connector at door window motor 'G', checking for corrosion, water, or loose pins.
- 2 Perform a voltage drop test on the power and ground circuits at the motor connector while operating the window.
- 3 Check the door jamb wiring boot for chafed or broken wires and repair any damaged conductors.
- 4 Clear the code and test-drive the vehicle, operating the affected window through several full cycles to see if U0529 returns.
- 5 Substitute a known-good door window motor 'G' from the same vehicle or a compatible replacement to confirm the module is at fault.
- 6 Test battery voltage and charging system output to rule out low-voltage-induced communication errors.
- 7 If the code persists after all wiring and module checks, diagnose the body control module or gateway for internal faults.

## Why window motor G sends invalid data

- A door window motor that still moves the glass can still set U0529 because the code is about data validity, not motor function, so replacing a working motor without checking the connector wastes money.
- The door jamb rubber boot is the most commonly overlooked failure point; wires inside it break from flexing and cause intermittent invalid data that only appears when the door is opened or closed.
- Low battery voltage from a weak battery or failing alternator can cause multiple modules to send invalid frames, so check system voltage before condemning the window motor.
- Aftermarket accessories such as window roll-up modules or alarm systems tapped into the door network can corrupt data and set U0529 even when the factory motor is healthy.
- U0529 often appears alongside other U-codes for door modules, which points to a shared power, ground, or network fault rather than a single failed motor.

## Can I keep driving with U0529?

The vehicle remains safe to drive because the fault affects only the door window motor's data communication, not braking, steering, or airbags. Avoid operating the affected window repeatedly until the cause is found, and have the circuit inspected soon to prevent a complete window failure or water intrusion.

## Tools that help

- OBD-II scan tool with live data and code-clearing capability
- Digital multimeter for voltage and resistance checks
- Test light for quick power and ground verification
- Trim removal tools to access door panel and wiring boot
- Wiring diagram for the affected vehicle's door network



## Reading U0529

- 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.
- 29** 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 · **U0528** Invalid Data Received From Door Window Motor F · **U0530** Invalid Data Received From Object Detection Maintenance Cont

## See it working

Watch the animated explainer [Readiness Monitors and the OBD-II Drive Cycle](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0529/>

