

GENERIC · NETWORK

U0505

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0505

Invalid Data Received From Door Control Module F

U0505 means the vehicle's main network gateway or a supervising control module received invalid or corrupted data from the door control module on the F circuit, which typically handles one specific door or door group. The module is present and communicating, but the messages it sends fail plausibility or checksum validation, so the receiving module flags the data as untrustworthy rather than reporting a total loss of communication.

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, because the affected door functions may still work normally
- One door's windows, locks, mirror, or puddle lamp may operate intermittently or not at all
- Door ajar or open-door warnings that appear or disappear without the door actually moving
- Keyless entry or push-button start may ignore commands from the affected door
- Battery drain if the door module keeps waking the network with bad frames
- Other unrelated modules may log communication codes because the corrupted data disturbs the bus

Common causes, most likely first

- Corroded, loose, or partially seated electrical connector at the door control module or door jamb boot
- Chafed or broken wires in the flexible harness between the body and the door, especially at the hinge area
- Low or unstable battery voltage causing the door module to transmit malformed frames
- Failed door control module with internal fault in its network transceiver or logic board
- Water intrusion into the door module or connector causing intermittent signal corruption
- Network bus faults such as a shorted or high-resistance data line shared with the door module
- Aftermarket accessories tapped into the door harness or module wiring introducing noise



How to diagnose and fix it

- 1 Clear the code and verify it returns, then record any freeze-frame data and check for related codes in all modules
- 2 Inspect and reseal the door control module connector and the door jamb harness boot for corrosion, water, or chafing
- 3 Perform a voltage drop and resistance check on the module's power and ground circuits with the door open and closed
- 4 Check battery condition and charging voltage to rule out low-voltage corruption of network messages
- 5 Scope or measure the network data lines at the door module for correct signal amplitude and no shorts
- 6 Substitute a known-good door control module of the same part type and confirm the code does not return
- 7 Repair or replace damaged harness sections and re-test all door functions through several open-close cycles

Why door module data goes invalid

- A door module that communicates perfectly on a scan tool can still set U0505 because the code is about message content, not message presence, so a simple ping test proves nothing.
- The F suffix refers to a specific door circuit designation, and technicians often chase the wrong door because they assume F means front rather than checking the manufacturer's network topology chart.
- Water leaks past the door belt moulding or speaker seal are a common hidden cause of intermittent corrupted frames that only appear after rain or a car wash.
- A weak battery or failing alternator can corrupt network frames across several modules, so U0505 alongside other U-codes often points to a power supply problem rather than the door module itself.
- Aftermarket window tint, alarm installs, or stereo work that disturb the door harness are frequently overlooked causes of this code on otherwise healthy vehicles.

Can I keep driving with U0505?

The vehicle is generally safe to drive because the fault affects convenience and body functions rather than engine, steering, or braking, but avoid relying on the affected door's locks or windows and address any battery drain promptly.

Tools that help

- OBD-II scan tool with manufacturer-level network diagnostics
- Digital multimeter for voltage, resistance, and voltage drop checks
- Oscilloscope for network data line signal analysis
- Trim removal tools for door panel and harness boot access
- Wiring diagram and network topology chart for the specific vehicle
- Battery load tester and charging system tester



Reading U0505

- 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.
- 05** The exact fault within that area.

Often seen with

U0140 Lost Communication With Instrument Panel Cluster · **U0155** Lost Communication With Body Control Module · **U0500** Invalid Data Received from Communication Module · **U0501** Invalid Data Received From Door Control Module B · **U0502** Invalid Data Received From Door Control Module C

See it working

Watch the animated explainer [How Airbags Work: A 50 km/h Crash in Slow Motion](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0505/>

