

GENERIC · NETWORK

U0514

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0514

Invalid Data Received From Mirror Control Module A

U0514 indicates that a control module on the vehicle's controller area network (CAN) received data from the mirror control module A that it judged invalid or corrupted. The mirror control module A is responsible for adjusting the side mirrors, and when its messages fail plausibility checks or contain out-of-range values, other modules flag this communication fault.

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, especially if the mirror functions still operate normally
- One or both side mirrors fail to adjust electrically, or move erratically
- Memory mirror positions do not recall correctly or the mirror moves to the wrong position
- Mirror heating, folding, or turn-signal functions stop working depending on the module's integration
- Other unrelated warning lights or communication codes appear if the fault lies on the CAN bus

Common causes, most likely first

- 1 Corroded, loose, or damaged electrical connector at the mirror control module or the mirror assemblies
- 2 Chafed or broken wiring in the door jamb boot or mirror harness, causing intermittent data corruption
- 3 Failing mirror control module A due to water intrusion, internal fault, or heat damage
- 4 Low or unstable battery voltage causing the module to send invalid data frames
- 5 CAN bus wiring fault, such as a short to ground or between CAN high and CAN low, distorting signals
- 6 Software or calibration mismatch in the mirror control module after a replacement or battery disconnection
- 7 A faulty component on the same bus, such as a door module, interfering with communications



How to diagnose and fix it

- 1 Verify battery voltage and charging system output, as low voltage is a common cause of invalid data frames
- 2 Inspect and clean the mirror control module connectors and mirror assembly connectors for corrosion or loose pins
- 3 Check the wiring harness through the door jamb and mirror pivot for chafing, breaks, or water damage
- 4 Use a scan tool to read live data and confirm whether the mirror control module is communicating and what values it reports
- 5 Perform a wiggle test on the harness while watching live data to catch intermittent connection faults
- 6 Check for technical service bulletins or software updates for the mirror control module that address communication errors
- 7 If wiring and power are good, substitute a known-good mirror control module or reprogram the existing module per manufacturer procedures

What Most Technicians Miss on U0514

- A mirror control module that still moves the mirrors can still set U0514 because the code is about data validity, not total communication loss, so functional tests alone are not conclusive.
- Water intrusion into the mirror housing or door connector is a frequent hidden cause, especially after car washes or heavy rain, and the corrosion may be inside the connector body where it is not visible.
- The code can be set by another module on the same CAN bus corrupting the network, so always check for other communication codes before condemning the mirror module.
- After replacing the mirror control module, some vehicles require a configuration or calibration procedure; skipping it can immediately reset U0514.
- A weak battery or poor ground connection can cause the module to transmit invalid frames without any mirror symptom, so power and ground checks belong early in diagnosis.

Can I keep driving with U0514?

The vehicle is generally safe to drive because the fault affects mirror convenience features, but if the mirrors are stuck in an unsafe position or other communication codes are present, address the issue promptly. Avoid ignoring multiple warning lights, as they may indicate a broader network fault.

Tools that help

- OBD-II scan tool with live data and module communication capabilities
- Digital multimeter for voltage, resistance, and continuity checks
- Wiring diagram and connector pinout for the mirror control circuit
- Trim removal tools for accessing door panels and mirror connectors
- Contact cleaner and dielectric grease for connector servicing



Reading U0514

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

Often seen with

U0140 Lost Communication With Instrument Panel Cluster · **U0208** Lost Communication With 'Seat Control Module A' · **U0422** Invalid Data Received From Body Control Module · **U0513** Invalid Data Received From Yaw Rate Sensor Module · **U0515** Invalid Data Received From Remote Function Actuation Module

See it working

Watch the animated explainer [How a Jet Engine Works: Two-Spool Turbofan](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0514/>

