

GENERIC · NETWORK

U0530

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0530

Invalid Data Received From Object Detection Maintenance Control Module B

U0530 means the object detection maintenance control module B is sending data that other modules on the vehicle network consider invalid or corrupted. The computer that set the code received a message from this module but could not trust the values inside it, so it flagged the communication as faulty rather than treating the data as usable.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	Medium	Professional	Network communication

Symptoms you may notice

- A warning light or message on the dashboard related to driver assistance or object detection systems
- The object detection maintenance control module B may appear offline or unresponsive in scan tool data
- Driver assistance features such as collision alerts or parking aids may be disabled or behave erratically
- Intermittent operation of systems that rely on object detection data, sometimes working and sometimes not
- Often no symptoms besides the warning light, especially if the fault is intermittent
- Other modules may log communication or data validity codes alongside U0530

Common causes, most likely first

- 1 Corroded, loose, or damaged wiring and connectors at object detection maintenance control module B
- 2 A failing object detection maintenance control module B that is producing corrupted or out-of-range data
- 3 Low battery voltage or poor charging system performance causing modules to send invalid data
- 4 Water intrusion or environmental damage affecting the module or its connectors
- 5 A software or calibration issue in the module that causes it to broadcast invalid data frames
- 6 Network communication faults such as a shorted or open data bus segment affecting the module's messages
- 7 Aftermarket accessories or improper repairs that disturb the network wiring near the module



How to diagnose and fix it

- 1 Use a scan tool to read all stored codes and record freeze-frame data from every module, not just the engine computer
- 2 Inspect the object detection maintenance control module B connectors and wiring for corrosion, looseness, or damage
- 3 Check battery voltage and charging system output to rule out low-voltage data corruption
- 4 Verify the module's software and calibration are correct and perform any available reprogramming or relearn procedure
- 5 Measure network bus voltages and resistance at the module connector to confirm the communication path is healthy
- 6 If wiring and power are good, substitute a known-good module or perform a module swap test to confirm the fault follows the module
- 7 Clear codes and road test to confirm the repair, then verify no related codes return

What most technicians miss on U0530

- A weak battery or failing alternator can cause modules to broadcast invalid data frames, so always check charging system health before condemning the object detection module.
- U0530 is often stored alongside other U-codes, and the root cause may be a network fault rather than the module itself, so read every module's codes before deciding on a repair.
- Water intrusion into the module connector or housing is a common hidden cause that only shows up during a careful visual inspection with the connector removed.
- Aftermarket accessories wired into the vehicle network can corrupt data frames and set U0530 even though the object detection module is perfectly functional.
- A module that communicates fine but sends out-of-range values may pass a basic ping test, so live data review is needed to catch invalid data that a simple presence check misses.

Can I keep driving with U0530?

The vehicle is generally safe to drive because U0530 affects driver assistance and object detection functions rather than core engine or braking control. Avoid relying on the affected driver assistance features and have the fault diagnosed soon, especially if the warning light is accompanied by other communication codes.

Tools that help

- OBD-II scan tool with module-level communication and live data capability
- Digital multimeter for voltage and resistance checks
- Battery load tester and charging system tester
- Wiring diagram and connector pinout reference for the vehicle
- Module reprogramming tool or factory-level diagnostic software
- Basic hand tools for connector and trim access



Reading U0530

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

Often seen with

U0100 Lost Communication With ECM/PCM A · **U0140** Lost Communication With Instrument Panel Cluster · **U052F** Invalid Data Received From Object Detection Maintenance Cont · **U0531** Invalid Data Received From Rear Gate Module · **U0532** Invalid Data Received From Rain Sensing Module

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/u0530/>

