

GENERIC · NETWORK

U3510

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U3510

Control Module Missing Calibration

U3510 is a generic network communication code indicating that a control module on the vehicle's data bus is reporting a missing or invalid calibration memory. The computer has detected that one of the electronic control units cannot confirm its calibration data is present or correct, which may prevent that module from operating properly or communicating reliably with other systems.

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

Symptoms you may notice

- Illumination of the malfunction indicator lamp (MIL) or a dedicated service warning light
- Often no symptoms besides the warning light, with the vehicle driving normally
- Multiple unrelated warning lights or system messages appearing on the dashboard
- One or more electronic features (such as stability control, climate control, or lighting) not functioning
- Intermittent no-start or stalling if the affected module is critical to engine operation
- Unexplained battery drain or modules remaining awake after the ignition is switched off

Common causes, most likely first

- 1 Corrupted or erased calibration memory within the affected control module
- 2 Low battery voltage or a voltage spike that interrupted a module programming event
- 3 Failed or interrupted software update or reprogramming procedure
- 4 Poor electrical connection at the module connector or a damaged wiring harness
- 5 Internal failure of the control module's non-volatile memory
- 6 Aftermarket device or improper installation interfering with module communication
- 7 A module that was replaced without performing the required calibration or configuration procedure



How to diagnose and fix it

- 1 Connect a scan tool and record all stored codes, freeze-frame data, and module identification information before clearing anything
- 2 Verify battery state of charge and check charging system voltage to rule out low-voltage causes
- 3 Inspect the affected module's connectors and wiring for corrosion, loose pins, or chafing
- 4 Check for technical service bulletins (TSBs) or manufacturer reprogramming procedures specific to the module and fault
- 5 Perform the manufacturer's calibration or configuration procedure using a capable scan tool or dealer-level software
- 6 If calibration cannot be restored, replace and reprogram the affected control module following the service manual
- 7 Clear codes and perform a road test to confirm the fault does not return

Why a module loses its calibration

- A calibration missing code often appears after a failed or interrupted reprogramming event, even if the vehicle was driven normally for weeks afterward.
- Many modules store calibration in non-volatile memory, so a simple battery disconnect will not erase it; a true missing calibration usually points to a programming or internal memory fault.
- Technicians sometimes replace a module unnecessarily when the real problem is a poor ground or a damaged CAN (Controller Area Network) wire that prevents the calibration handshake from completing.
- This code can be set by a module that was replaced with a used unit that was never configured for the vehicle, which is a common mistake in collision repair.
- U3510 may be accompanied by communication codes for other modules, so always diagnose the root network fault before condemning the module that reports the missing calibration.

Can I keep driving with U3510?

If the vehicle runs and drives normally, you can usually drive it to a repair shop, but avoid long trips and do not ignore the warning if multiple systems are affected. If the engine stalls, refuses to start, or stability control is disabled, stop driving and have the vehicle towed to prevent unsafe conditions.

Tools that help

- OBD-II scan tool with module-level diagnostic capability
- Digital multimeter for voltage and continuity checks
- Battery charger or power supply to maintain stable voltage during programming
- Manufacturer-specific reprogramming software or dealer-level scan tool
- Wiring diagram and service information for the affected module



Reading U3510

- U** Network: communication between the vehicle's control modules.
- 3** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 5** Network communication.
- 10** The exact fault within that area.

Often seen with

U0100 Lost Communication With ECM/PCM A · **U0121** Lost Communication With Anti-Lock Brake System (ABS) Control · **U0140** Lost Communication With Instrument Panel Cluster · **U0155** Lost Communication With Body Control Module · **U3000** Control Module

See it working

Watch the animated explainer [How a MAP Sensor Works: Engine Vacuum and Load](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u3510/>

