

GENERIC · NETWORK

U010F

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U010F

Lost Communication With Air Conditioning Control Module

U010F is a generic communication fault indicating that the engine control module (ECM) or another primary controller has lost the controller area network (CAN) signal from the air conditioning control module. The computer detected that messages from the A/C module stopped arriving within the expected time window, so it flagged the module as offline.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	Medium	Intermediate	Lost communication with a control module

Symptoms you may notice

- The air conditioning may blow only ambient or hot air, or not engage at all.
- The climate control panel may be completely dark or unresponsive to button presses.
- A stored U010F code is often the only sign, with no noticeable symptoms besides the warning light.
- The blower motor may still run, but the compressor clutch never engages.
- Other unrelated modules may log communication codes if the A/C module shares a bus segment.
- In some vehicles the defrost mode may default to a fixed setting because the climate controller is offline.

Common causes, most likely first

- A blown fuse or poor connection at the A/C control module power or ground circuit.
- Corroded, loose, or damaged wiring at the A/C module connector or along the CAN bus segment.
- A failed air conditioning control module itself, often due to internal circuit board faults.
- A shorted or open CAN bus wire between the A/C module and the rest of the network.
- Low battery voltage or a weak charging system causing modules to drop offline intermittently.
- Water intrusion or physical damage to the A/C module or its harness in the dash or engine bay.
- A faulty gateway module or body control module that routes CAN messages to the A/C controller.



How to diagnose and fix it

- 1 Verify battery voltage and charging system output, then clear the code and see if it returns immediately.
- 2 Check all fuses and relays that supply power to the air conditioning control module, including underhood and interior fuse boxes.
- 3 Inspect the A/C module connector for corrosion, loose pins, or pushed-out terminals, and check the ground circuit.
- 4 Measure CAN bus resistance and voltage at the A/C module connector to confirm the bus is intact and not shorted.
- 5 Perform a wiggle test on the harness while watching live data for the A/C module communication status.
- 6 If wiring and power are good, substitute a known-good A/C control module or perform a module communication self-test with a scan tool.
- 7 After repair, clear codes and verify the A/C module reappears on the network and the climate controls function normally.

Why the A/C module drops off the bus

- A common oversight is assuming the A/C module is dead when a simple blown fuse in the interior fuse box has cut its power.
- The code can set intermittently from low battery voltage during cranking, so always check for a weak battery before replacing parts.
- On some vehicles the A/C module is a slave on a sub-bus, and a fault in the gateway module can mimic a failed A/C controller.
- Water leaks into the passenger footwell or dash area often corrode the A/C module connectors and cause this code without any visible exterior damage.
- A scan tool that can read live network topology is far more useful than a basic code reader for confirming whether the module is truly offline.

Can I keep driving with U010F?

You can usually drive the vehicle safely because the fault mainly affects climate control, but avoid long trips in extreme heat or cold since defrost and cabin comfort may be compromised. Have the fault diagnosed soon to prevent a simple wiring repair from becoming a costly module replacement.

Tools that help

- OBD-II scan tool with live data and network communication capabilities
- Digital multimeter for voltage, resistance, and CAN bus measurements
- Fuse puller and test light
- Trim removal tools to access the A/C control module
- Wiring diagram for the specific vehicle's CAN bus and A/C module circuits



Reading U010F

- U** Network: communication between the vehicle's control modules.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 1** Lost communication with a control module.
- 0F** The exact fault within that area.

Often seen with

U0100 Lost Communication With ECM/PCM A · **U0140** Lost Communication With Instrument Panel Cluster · **U0164** Lost Communication With HVAC Control Module · **U0423** Invalid Data Received From Instrument Panel Control Module

See it working

Watch the animated explainer [How ABS Works: Anti-Lock Brakes in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u010f/>

