



U01AA

Lost Communication With Hybrid/EV Battery Interface Control Module K

U01AA is a generic communication fault indicating that one or more control modules have lost contact with the Hybrid/EV Battery Interface Control Module K over the vehicle's high-speed data network. The module that set the code expected regular status messages from the battery interface module and stopped receiving them for a calibrated time, so it flagged the communication loss.

SYSTEM Network	CODE TYPE Generic (all makes)	SEVERITY Medium	FIX DIFFICULTY Professional	AREA Lost communication with a control module
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Symptoms you may notice

- Illumination of the check engine light, service vehicle soon message, or hybrid system warning lamp
- The vehicle may refuse to enter Ready mode or may shut down shortly after start
- Reduced power, limited hybrid operation, or a forced limp-home mode
- Inoperative or erratic state-of-charge and battery temperature displays
- Often no symptoms besides the warning light if the loss is intermittent
- Multiple unrelated warning lights if the module resides on a shared communication bus

Common causes, most likely first

- 1 Damaged, corroded, or loose wiring or connector pins at the battery interface module
- 2 Open or shorted controller area network (CAN) bus wiring between the interface module and the network
- 3 Failed Hybrid/EV Battery Interface Control Module K or its internal power supply
- 4 Blown fuse or poor ground connection supplying the interface module
- 5 Low 12-volt battery voltage or charging system fault causing modules to drop offline
- 6 Water intrusion or heat damage affecting the module or its harness
- 7 Aftermarket electronics improperly tapped into the communication bus



How to diagnose and fix it

- 1 Scan all modules and record every stored code, then verify battery voltage and charging system output
- 2 Inspect the battery interface module connectors for corrosion, pushed pins, and loose terminals
- 3 Check the module's power and ground circuits with a multimeter under load
- 4 Measure CAN bus resistance and voltage to rule out an open or shorted data line
- 5 Perform a wiggle test on the harness while watching live communication status on the scan tool
- 6 If wiring and power are good, substitute a known-good module or perform a module communication self-test
- 7 Clear codes and verify the fault does not return after a road test that includes a key-off sleep cycle

Why the battery interface module drops offline

- A weak or failing 12-volt battery is a frequent culprit because the interface module may brown out during cranking or sleep cycles and set U01AA without any hard wiring fault.
- The code can be stored by a module other than the battery interface module itself, so always check which module reported the loss before condemning the battery pack electronics.
- Intermittent U01AA often appears only after the vehicle sits overnight, pointing to a parasitic draw or a module that fails to wake on the bus.
- A single unplugged connector at the interface module can set this code along with several other U-codes, so review the full code list before replacing parts.
- Aftermarket alarms or dash cameras tapped into CAN wiring commonly disturb bus voltage and trigger communication codes like this one.

Can I keep driving with U01AA?

If the vehicle still starts and drives normally, limit driving to a short trip to a repair facility and avoid high-voltage charging or long journeys. If the vehicle will not enter Ready mode or repeatedly shuts down, do not drive it and have it towed.

Tools that help

- OBD-II scan tool with full module access and live data
- Digital multimeter
- CAN bus breakout box or oscilloscope
- Wiring diagram for the specific vehicle
- Terminal pick and contact cleaner



Reading U01AA

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

Often seen with

P0AFA Hybrid/EV Battery System Voltage Low · **U0100** Lost Communication With ECM/PCM A · **U0111** Lost Communication With Battery Energy Control Module 'A' · **U01A9** Lost Communication With Hybrid/EV Battery Interface Control · **U0293** Lost Communication with Hybrid Vehicle Control System

See it working

Watch the animated explainer [How Regenerative Braking Works in Electric Cars](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u01aa/>

