

GENERIC · NETWORK

U0030

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0030

Vehicle Communication Bus A (+) Open

U0030 means the vehicle's main communication network, known as Bus A, has a positive circuit that is open, so the control modules cannot exchange data over that wire. The computer detected a loss of voltage or continuity on the Bus A (+) line, which typically prevents modules from communicating and may leave the vehicle unable to start or run.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	High	Professional	Network wiring and bus faults

Symptoms you may notice

- Multiple warning lights illuminated at once, often including the check engine, ABS, and airbag lights
- The engine may crank but not start, or start and immediately stall
- The transmission may default to a limp mode or fail to shift
- Intermittent electrical glitches such as dash gauges dropping to zero or flickering
- Often no symptoms besides the warning light if the open is on a non-critical branch of the bus
- Modules may be completely unresponsive to a scan tool

Common causes, most likely first

- A broken or corroded wire in the Bus A (+) circuit, often at a connector or flex point
- A disconnected or damaged connector at a control module or inline harness connector
- A failed control module that is pulling the Bus A (+) line down or internally open
- Rodent damage or chafing that has severed the Bus A (+) wire
- Water intrusion into a connector causing corrosion and an open circuit
- A poor ground connection at a module that shares the Bus A network
- Aftermarket accessories improperly spliced into the Bus A (+) wiring



How to diagnose and fix it

- 1 Connect a scan tool and record all stored codes and module communication status to confirm which modules are offline
- 2 Inspect the Bus A (+) wiring harness for visible damage, corrosion, or loose connectors, starting at the modules that are not communicating
- 3 Measure resistance and continuity on the Bus A (+) circuit from the data link connector to each module, looking for an open
- 4 Check for voltage on the Bus A (+) line with the key on to verify the open is not a short to ground or power
- 5 Disconnect modules one at a time to see if communication returns, isolating a failed module that is loading the bus
- 6 Repair or replace the damaged section of wire or connector, using proper crimps and seals
- 7 Clear codes and verify all modules communicate and the code does not return after a test drive

What a Bus A open really means

- U0030 is often set by a single unplugged connector at a module that is easy to overlook, such as one behind a kick panel or under a seat.
- A failed module can create an open on the Bus A (+) line even though the wire itself is intact, so disconnecting modules one by one is a key diagnostic step.
- The code does not always mean the entire bus is dead; some vehicles will set U0030 when only one branch of the Bus A (+) circuit is open while other modules still communicate.
- Aftermarket alarms, remote starters, or radio installations that tap into the bus wiring are a common cause of U0030 that technicians miss.
- Corrosion inside a connector can create an open that only appears when the vehicle is wet or vibrating, so wiggle tests and moisture inspection are essential.

Can I keep driving with U0030?

Do not drive the vehicle with U0030 because the open Bus A (+) circuit can disable critical modules and cause stalling, loss of power steering, or a no-start condition. Have the vehicle towed to a repair facility for diagnosis.

Tools that help

- OBD-II scan tool with live data and module communication capability
- Digital multimeter with resistance and voltage measurement
- Wiring diagram for the specific vehicle
- Back probe pins and jumper wires
- Trim removal tools for accessing connectors



Reading U0030

- U** Network: communication between the vehicle's control modules.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 0** Network wiring and bus faults.
- 30** The exact fault within that area.

Often seen with

U0001 Loss of Bus Communication · **U0002** High Speed CAN Communication Bus (Performance) · **U0031** Vehicle Communication Bus A (+) Low · **U0032** Vehicle Communication Bus A (+) High · **U0100** Lost Communication With ECM/PCM A

See it working

Watch the animated explainer [How an Elevator Works: Traction Lift in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0030/>

