



U044A

Invalid Data Received From Serial Data Gateway Module D

U044A means the vehicle's main engine or body computer received invalid or missing data from a serial data gateway module, which is a network router that passes messages between different communication buses. The computer detected that the gateway module's data stream was corrupted, out of range, or absent when expected, so it flagged the gateway as the source of the invalid information.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	Medium	Professional	Invalid data received from a module

Symptoms you may notice

- Illumination of the check engine light or service vehicle soon message with no obvious performance change
- Multiple unrelated warning lights on the dashboard because several modules rely on the gateway
- Intermittent failure of features like radio, climate control, or power windows that share the network
- No-start condition or stalling if the gateway disrupts critical messages between the engine and body computers
- Communication loss with a scan tool when trying to read codes from modules behind the gateway
- Often no symptoms besides the warning light, especially if the invalid data was a brief glitch

Common causes, most likely first

- 1 Corroded, loose, or damaged wiring at the gateway module connector or its ground point
- 2 Failed serial data gateway module due to internal electronics fault or water intrusion
- 3 Low battery voltage or poor charging system causing the gateway to drop messages
- 4 Network bus wiring shorted to power or ground between the gateway and other modules
- 5 Software or configuration mismatch in the gateway module after a battery replacement or module swap
- 6 A different module on the network flooding the bus with invalid data that the gateway passes along



How to diagnose and fix it

- 1 Connect a scan tool and record all stored codes from every module, then clear codes and test-drive to see if U044A returns
- 2 Inspect the gateway module connector for corrosion, pushed pins, or loose terminals and check its ground connection
- 3 Measure battery voltage at rest and while cranking, and test the charging system to rule out low voltage
- 4 Check the communication bus wiring for shorts to ground or power using a wiring diagram and multimeter
- 5 Verify the gateway module has the correct software and configuration for the vehicle, updating or reprogramming if needed
- 6 Substitute a known-good gateway module of the same part number and recheck communication before replacing
- 7 If the fault persists, trace the network topology to find a module that is corrupting data and isolate it

Gateway faults that mimic other failures

- A gateway module that intermittently drops messages can set U044A along with unrelated codes in the engine, transmission, and body computers, leading technicians to chase the wrong system.
- Low battery voltage during engine cranking is a common trigger because the gateway may reset or produce invalid data when supply voltage dips below its threshold.
- The gateway module is often located behind the dashboard or under a seat, where water leaks or spilled drinks cause corrosion that is not visible until the connector is opened.
- U044A does not always mean the gateway itself has failed; a single module on one of its downstream buses can corrupt the data stream and the gateway simply reports the invalid message.
- After replacing a gateway module, some vehicles require configuration or programming with a factory scan tool, and skipping that step can set U044A again immediately.

Can I keep driving with U044A?

You can usually drive the vehicle if it starts and runs normally, but avoid long trips or relying on driver-assist features until the fault is diagnosed. If the engine stalls, refuses to start, or multiple warning lights appear, stop driving and have the vehicle towed to a repair shop.

Tools that help

- OBD-II scan tool with full-system code reading capability
- Digital multimeter for voltage and resistance checks
- Wiring diagram for the vehicle's network topology
- Battery load tester or charging system tester
- Factory or equivalent diagnostic software for module configuration



Reading U044A

- U** Network: communication between the vehicle's control modules.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 4** Invalid data received from a module.
- 4A** The exact fault within that area.

Often seen with

U0100 Lost Communication With ECM/PCM A · **U0140** Lost Communication With Instrument Panel Cluster · **U0441** Invalid Data Received From Emissions Critical Control Inform · **U0442** Invalid Data Received From ECM/PCM B · **U0443** Invalid Data Received From Body Control Module B

See it working

Watch the animated explainer [How a Radiator Fan Relay Circuit Works](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u044a/>

