

GENERIC · NETWORK

U0539

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0539

Invalid Data Received From Digital Audio Control Module D

U0539 is a communication fault indicating that a control module on the vehicle's network received invalid or corrupted data from the Digital Audio Control Module D. The computer detected that the data frames coming from the audio module did not match the expected format or contained out-of-range values, so it flagged the signal as unreliable.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	Low	Intermediate	Network communication

Symptoms you may notice

- Often no symptoms besides the warning light, especially if the audio system still functions normally.
- The audio system may mute, cut out intermittently, or fail to respond to button presses.
- Some speakers or audio zones may stop working while others continue to play.
- The infotainment screen may show a communication error or freeze temporarily.
- Other modules on the same network may log unrelated communication codes if the data bus is disturbed.
- Battery drain may occur if the audio module fails to enter sleep mode properly.

Common causes, most likely first

- 1 Faulty Digital Audio Control Module D internal circuitry corrupting its network messages.
- 2 Damaged or chafed wiring in the controller area network (CAN) bus or audio module harness.
- 3 Corroded or loose electrical connectors at the audio module or at a network splice point.
- 4 Low battery voltage or a weak charging system causing modules to transmit malformed data.
- 5 Aftermarket audio equipment or accessories improperly tapped into the network wiring.
- 6 Software or calibration error in the audio module requiring a reflash or update.
- 7 A failed network gateway module that misroutes or corrupts data between buses.



How to diagnose and fix it

- 1 Verify battery voltage and charging system output; a weak battery can cause spurious communication codes.
- 2 Inspect the audio module connectors and harness for corrosion, loose pins, or chafed wires.
- 3 Check for aftermarket accessories wired into the audio or network circuits and disconnect them temporarily.
- 4 Use a scan tool to read live data and confirm whether the audio module is transmitting invalid frames or dropping offline.
- 5 Perform a voltage drop test on the CAN bus lines at the audio module to rule out wiring resistance.
- 6 If wiring and power are good, reflash or update the audio module software per the manufacturer's procedure.
- 7 Substitute a known-good Digital Audio Control Module D and clear codes to confirm the fault follows the module.

What the audio module data fault hides

- A weak or failing battery is a common hidden cause of U0539 because modules transmit corrupted data when supply voltage sags during cranking.
Aftermarket amplifiers or phone kits tapped into the CAN bus often introduce invalid data that the gateway reports as a U0539 even though the audio module itself is fine.
- The code does not always mean the audio module is defective; a single chafed wire near a seat or door hinge can corrupt the bus and set this code intermittently.
- Some vehicles log U0539 as a history code after a brief network glitch and it may never return once cleared, so avoid replacing parts on a single occurrence.
A failed network gateway can misroute messages and cause U0539 alongside codes for other modules, so always check for companion codes before condemning the audio module.

Can I keep driving with U0539?

The vehicle remains safe to drive because the fault affects audio and infotainment data, not steering, braking, or engine control. Avoid relying on the audio system for safety alerts, and address the code if it returns or is accompanied by other communication faults.

Tools that help

- OBD-II scan tool with live data and network diagnostics
- Digital multimeter for voltage and resistance checks
- CAN bus breakout box or oscilloscope for signal integrity testing
- Trim removal tools to access the audio module and harness
- Manufacturer service information for wiring diagrams and reflash procedures



Reading U0539

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

Often seen with

U0100 Lost Communication With ECM/PCM A · **U0140** Lost Communication With Instrument Panel Cluster · **U0155** Lost Communication With Body Control Module · **U0538** Invalid Data Received From Digital Audio Control Module C

See it working

Watch the animated explainer [Helicopter Simulator: Take Off, Hover and Land](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0539/>

