

GENERIC · NETWORK

U0563

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0563

Invalid Data Received From Audio Amplifier B

U0563 is a communication fault indicating that a control module, typically the infotainment or audio head unit, received invalid or corrupted data from the audio amplifier over the vehicle's network. The module expected a valid data message from the amplifier but the content failed its internal checks, so it flagged the amplifier's data as untrustworthy.

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 produces sound.
- No sound from some or all speakers, or audio that cuts in and out intermittently.
- The radio or infotainment screen may show an error, freeze, or reboot when audio is requested.
- A popping, crackling, or static noise from the speakers when the system is powered on.
- Other network-dependent features such as chimes, navigation voice prompts, or phone calls may be silent.
- The amplifier may fail to power on, leaving the head unit showing audio as active but silent.

Common causes, most likely first

- 1 Corroded, loose, or damaged wiring and connectors between the audio amplifier and the network bus.
- 2 A failing audio amplifier that is powering up but sending corrupted or incomplete data frames.
- 3 Low or unstable voltage at the amplifier, often from a weak battery or poor ground connection.
- 4 Water intrusion into the amplifier location, common when the unit is mounted low in the trunk or under a seat.
- 5 A software or firmware fault in the amplifier or head unit that corrupts the data message.
- 6 A faulty head unit or infotainment module that misinterprets valid amplifier data as invalid.
- 7 Network bus faults such as a shorted or open data line that distort the amplifier's messages.



How to diagnose and fix it

- 1 Perform a full scan of all modules and record every stored code, then clear codes and test-drive to see whether U0563 returns immediately.
- 2 Inspect the amplifier connectors and the wiring harness for corrosion, loose pins, chafing, and water damage, and repair as needed.
- 3 Measure battery voltage and the amplifier's power and ground circuits under load to rule out low voltage or a bad ground.
- 4 Check for technical service bulletins or software updates for the amplifier and head unit before replacing any hardware.
- 5 Substitute a known-good amplifier of the same part type to confirm whether the amplifier is the source of the invalid data.
- 6 If the amplifier is ruled out, test the network bus integrity and the head unit's communication circuits with a scan tool and oscilloscope.
- 7 After repair, clear codes, verify that U0563 does not reset, and confirm that audio and all network functions operate correctly.

What the amplifier data fault really means

- U0563 is a data-validity code, not a no-communication code, so the amplifier is usually still talking on the network but its message content is being rejected.
- A weak battery or poor ground can corrupt amplifier data frames without ever setting a low-voltage code, so voltage checks belong early in diagnosis.
- Water damage to an amplifier mounted in a trunk or under a seat is a frequent hidden cause, and the corrosion is often on the back of the connector where it is not visible.
- Replacing the amplifier without checking for a software update or a chafed data wire frequently leads to the same code returning on the new part.
- This code can be set by the head unit rather than the amplifier itself, so the module that stores U0563 is not always the module that needs repair.

Can I keep driving with U0563?

The vehicle remains safe to drive because this fault affects audio and infotainment rather than steering, braking, or engine control. Avoid relying on audio warnings or chimes until the fault is repaired, and address any water intrusion or voltage problem promptly to prevent further module damage.



Tools that help

- OBD-II scan tool with full module scanning capability
- Digital multimeter for voltage and ground checks
- Wiring diagram and connector pinout for the audio system
- Trim removal tools for accessing amplifier and head unit connectors
- Oscilloscope or network bus tester for data line integrity checks

Reading U0563

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.

63 The exact fault within that area.

Often seen with

U0164 Lost Communication With HVAC Control Module · **U0184** Lost Communication With Radio · **U0557** Invalid Data Received From Front Controls Interface Module A · **U0562** Invalid Data Received From Seat Control Switch Module B · **U0564** Invalid Data Received From Speech Recognition Module

See it working

Watch the animated explainer [How Hydraulic Brakes Work: Pedal to Caliper](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0563/>

