

GENERIC · NETWORK

U0653

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0653

Lost Communication With EGR Sensor C

U0653 is a network communication code indicating that a control module on the vehicle's controller area network (CAN) bus has lost contact with the exhaust gas recirculation (EGR) sensor C. The computer detected that expected messages from that sensor stopped arriving within a defined time window, so it flagged the missing communication rather than a direct sensor performance fault.

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

Symptoms you may notice

- Illuminated check engine light or service engine soon light, often with no other noticeable symptoms.
- Rough idle or slight hesitation during acceleration if the EGR system is disabled by the fault.
- Intermittent stalling or poor fuel economy in some vehicles when the EGR sensor signal is missing.
- A stored U0653 code accompanied by other communication or EGR-related codes in the module memory.
- No drivability change at all on many vehicles because the fault is purely a communication loss.
- Possible reduced engine power or limp mode if the module that lost communication is critical to emissions strategy.

Common causes, most likely first

- 1 Damaged, corroded, or disconnected wiring or connector at the EGR sensor C or its harness.
- 2 Faulty EGR sensor C that has lost its internal communication capability.
- 3 Open or shorted CAN bus data lines between the EGR sensor and the module that monitors it.
- 4 Poor ground connection or power supply to the EGR sensor circuit.
- 5 Failed control module that is not transmitting or receiving messages on the network.
- 6 Aftermarket electrical accessories or poor previous repairs introducing interference on the CAN bus.
- 7 Software or calibration issue in a module that affects communication timing.



How to diagnose and fix it

- 1 Inspect the EGR sensor C connector and harness for corrosion, loose pins, or physical damage, and clean or repair as needed.
- 2 Check battery voltage and ground connections at the sensor and at the module that reported the code.
- 3 Use a scan tool to verify communication with the EGR sensor C and check for other network codes that may point to a shared bus fault.
- 4 Measure resistance and continuity on the CAN bus data lines between the sensor and the module, looking for opens or shorts.
- 5 Substitute a known-good EGR sensor C or perform a bidirectional communication test if the scan tool supports it.
- 6 Check for aftermarket wiring or accessories that may be disturbing the network, and remove or repair them.
- 7 If all wiring and sensor checks pass, diagnose the control module for internal communication faults before replacement.

When U0653 is not a sensor fault

- A loose or corroded connector at the EGR sensor is far more common than a failed sensor, so always inspect the plug before condemning the part.
- U0653 often appears after battery replacement or jump-starting because voltage spikes can temporarily disrupt module communication and set false network codes.
- The code can be set by a fault in a completely different module on the same CAN bus, so checking for other U-codes is essential before chasing the EGR sensor.
- Some vehicles require a relearn or module reset after repairing the communication fault, and the code may not clear on its own until that procedure is done.
- Aftermarket alarm or remote start wiring tapped into the CAN bus is a frequent hidden cause of intermittent U0653 on otherwise healthy vehicles.

Can I keep driving with U0653?

You can usually continue driving with U0653 because the fault is a communication loss rather than a mechanical failure, but avoid long trips or heavy load until the cause is found. If the engine runs rough, stalls, or enters limp mode, stop driving and have the vehicle diagnosed promptly.

Tools that help

- OBD-II scan tool with CAN bus communication capability
- Digital multimeter
- Wiring diagram for the EGR sensor and CAN bus circuits
- Contact cleaner and dielectric grease
- Basic hand tools for connector and panel access



Reading U0653

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

Often seen with

P0400 Exhaust Gas Recirculation Flow Malfunction · **P0401** EGR Flow Insufficient Detected · **U0100** Lost Communication With ECM/PCM A · **U0652** Lost Communication With EGR Sensor B · **U0654** Lost Communication With Diesel Intake Air Flow A Position Se

See it working

Watch the animated explainer [Turbocharger Trainer: Boost, Wastegate and Intercooler](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0653/>

