

GENERIC · NETWORK

U0665

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0665

Lost Communication With Fuel Rail Pressure Sensor Bank 2

U0665 is a communication fault that sets when the engine control module (ECM) stops receiving valid data from the bank 2 fuel rail pressure sensor over the vehicle's controller area network (CAN) bus. The ECM has detected a loss of the periodic message that carries fuel rail pressure readings for the bank 2 fuel rail, not necessarily a failure of the sensor itself.

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

Symptoms you may notice

- Illumination of the check engine light or service vehicle soon message, often with no other symptoms
- Reduced engine power or limp-home mode triggered by the ECM when rail pressure data is missing
- Rough running, misfire, or hesitation under load because the ECM cannot correctly meter fuel for bank 2
- Hard starting or stalling, particularly on engines that rely on bank 2 rail pressure for startup fueling
- A stored U0665 code accompanied by other communication or fuel system codes in the same module

Common causes, most likely first

- 1 Damaged, chafed, or corroded wiring in the bank 2 fuel rail pressure sensor circuit or its CAN bus branch
- 2 Loose or contaminated connector pins at the sensor, the ECM, or an intermediate harness splice
- 3 Failed bank 2 fuel rail pressure sensor that no longer transmits data on the bus
- 4 CAN bus communication fault such as a shorted or open data line affecting the sensor's message
- 5 Low battery voltage or poor grounds causing intermittent module communication dropouts
- 6 Software or calibration issue in the ECM that incorrectly flags the sensor message as missing
- 7 Aftermarket electrical accessories or poor previous repairs introducing noise or resistance into the circuit



How to diagnose and fix it

- 1 Perform a full scan of all modules and record every stored, pending, and permanent code before clearing anything
- 2 Inspect the bank 2 fuel rail pressure sensor connector and harness for corrosion, pushed pins, or chafed insulation
- 3 Check battery voltage, ground straps, and charging system output to rule out low-voltage communication faults
- 4 Measure resistance and continuity on the sensor signal and CAN bus wires between the sensor and the ECM
- 5 Verify the sensor's live data PID on a scan tool while wiggling the harness to catch intermittent dropouts
- 6 If wiring and power are good, substitute a known-good bank 2 fuel rail pressure sensor and recheck communication
- 7 Clear codes, perform a road test, and confirm the U0665 does not return before releasing the vehicle

Why U0665 is rarely a bad sensor

- Most U0665 faults trace back to harness damage or connector corrosion rather than the bank 2 fuel rail pressure sensor itself, so resistance and wiggle tests come before parts replacement.
- A weak battery or failing ground can set U0665 intermittently because the sensor's CAN message drops out when supply voltage sags during cranking.
- The ECM may log U0665 alongside fuel trim or misfire codes for bank 2, and replacing the sensor without fixing the wiring will leave those codes unresolved.
- Some vehicles route the bank 2 rail pressure sensor signal through an intermediate connector or splice that corrodes silently and is missed during a quick visual inspection.
- Clearing U0665 without checking freeze-frame data can hide whether the fault occurred at key-on, idle, or under load, which changes where you start testing.

Can I keep driving with U0665?

You can usually drive to a repair shop if the engine runs normally and only the warning light is on, but avoid heavy throttle or towing because the ECM may be limiting fuel delivery on bank 2. If the engine is in limp mode, misfiring, or stalling, stop driving and have the vehicle towed to prevent damage.

Tools that help

- OBD-II scan tool with live data and CAN bus monitoring capability
- Digital multimeter with resistance and continuity functions
- Wiring diagram for the bank 2 fuel rail pressure sensor circuit
- Back probe pins or breakout box for connector testing
- Hand tools for connector and harness access



Reading U0665

- 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.
- 65** The exact fault within that area.

Often seen with

P0190 Fuel Rail Pressure Sensor Circuit Malfunction · **P0191** Fuel Rail Pressure Sensor Circuit Range/Performance · **P0192** Fuel Rail Pressure Sensor Circuit Low Input · **U0664** Lost Communication With Rear HVAC Air Cutoff Actuator · **U0666** Lost Communication With Reductant Pressure Sensor

See it working

Watch the animated explainer [How the EVAP System Works: Fuel Vapour and Leak Test](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0665/>

