

GENERIC · NETWORK

U043B

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U043B

Invalid Data Received From Front Distance Range Sensor - Left

U043B is a communication fault indicating that a control module received invalid or missing data from the front distance range sensor on the left side of the vehicle. The computer detected that the sensor's messages were either absent, corrupted, or outside expected parameters, so it flagged the data as invalid.

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

Symptoms you may notice

- A warning light on the dashboard, often the forward collision or parking assist icon
- The forward collision warning system may be disabled or show a fault message
- Adaptive cruise control may not engage or may disengage unexpectedly
- Parking assist features may stop working or give false alerts
- Often no symptoms besides the warning light, with the vehicle driving normally
- In some cases, the vehicle may enter a reduced power or limp mode if the fault affects safety systems

Common causes, most likely first

- 1 Damaged or disconnected wiring or connector at the left front distance sensor
- 2 Failed left front distance sensor (internal fault or contamination)
- 3 Corrosion or water intrusion in the sensor connector or harness
- 4 Software or calibration issue in the sensor or control module
- 5 Faulty control module that processes the sensor data (e.g., driver assist module)
- 6 Physical damage to the sensor from road debris or minor impact
- 7 Electrical interference or voltage supply issues affecting the sensor circuit



How to diagnose and fix it

- 1 Inspect the left front distance sensor and its connector for visible damage, corrosion, or loose pins
- 2 Check the sensor wiring harness for chafing, breaks, or poor ground connections
- 3 Use a scan tool to read live data from the sensor and verify if it is communicating at all
- 4 Perform a visual inspection of the sensor face for dirt, mud, or snow buildup and clean if necessary
- 5 Test the sensor circuit with a multimeter for power, ground, and signal integrity
- 6 If wiring is good, substitute a known-good sensor to see if the code clears
- 7 After repair, clear codes and perform any required calibration or relearn procedure for the driver assist system

What the left distance sensor code hides

- A dirty or obstructed sensor face can cause invalid data without any physical damage, so always clean the sensor before condemning it.
- The code often sets after a low-voltage event or battery replacement, and may clear after a few drive cycles if the sensor reinitializes correctly.
- A faulty ground connection shared with other sensors can corrupt the data signal, so check grounds before replacing the sensor.
- Some vehicles require a calibration drive or static target setup after sensor replacement, and skipping this step will set the code again.
- The left front distance sensor may be part of the blind spot monitoring system on some models, so related codes like U043A or U043C may also appear.

Can I keep driving with U043B?

The vehicle is generally safe to drive because the fault affects driver assist features, but avoid relying on adaptive cruise control or forward collision warning until repaired. If the warning light is accompanied by reduced power or braking assist loss, have the vehicle inspected immediately.

Tools that help

- OBD-II scan tool with live data capability
- Digital multimeter
- Socket set and trim removal tools
- Contact cleaner and dielectric grease
- Vehicle service information for wiring diagrams and calibration procedures



Reading U043B

- 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.
- 3B** The exact fault within that area.

Often seen with

U0122 Lost Communication With Vehicle Dynamics Control Module · **U0401** Invalid Data Received From ECM/PCM · **U043A** Invalid Data Received From Suspension Control Module B · **U043C** Invalid Data Received From Front Distance Range Sensor - Rig

See it working

Watch the animated explainer [How an Automatic Transmission Works, Gear by Gear](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u043b/>

