



U056E

Invalid Data Received From Image Processing Sensor I

U056E is a communication fault indicating that a control module received invalid or corrupted data from the image processing sensor, which is typically a camera used for driver-assist features such as lane keeping or collision avoidance. The computer detected that the sensor's data stream was missing expected parameters, contained out-of-range values, or failed a plausibility check, so it flagged the signal as invalid.

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 a dedicated driver-assist warning light
- Often no symptoms besides the warning light, with the vehicle driving normally
- Inoperative or erratic lane departure warning, adaptive cruise control, or automatic emergency braking
- A message on the driver information center stating that forward camera or sensor is unavailable
- Intermittent operation of driver-assist features, especially in rain, fog, or direct sunlight
- The vehicle may default to a reduced level of automation or disable certain safety systems

Common causes, most likely first

- 1 A dirty, obstructed, or damaged image processing sensor lens or its protective cover
- 2 Corroded, loose, or damaged electrical connectors at the sensor or the receiving module
- 3 A faulty image processing sensor that is internally failing and outputting invalid data
- 4 Wiring harness damage such as chafing, pinching, or water intrusion along the sensor circuit
- 5 Software or calibration mismatch in the sensor or the module that receives its data
- 6 A weak or failing vehicle battery causing low voltage to the sensor or module
- 7 Aftermarket accessories or modifications that interfere with the sensor's field of view or electrical circuit



How to diagnose and fix it

- 1 Inspect and clean the image processing sensor lens and its mounting area for dirt, snow, mud, or stickers
- 2 Check the sensor and module connectors for corrosion, loose pins, or water intrusion, and clean or reseal as needed
- 3 Perform a visual inspection of the wiring harness for chafing, breaks, or poor routing near the sensor
- 4 Use a scan tool to read live data and confirm whether the sensor is communicating and whether the data is plausible
- 5 Check for technical service bulletins or software updates from the manufacturer that address invalid data from the image processing sensor
- 6 Test the sensor's power and ground circuits with a multimeter to rule out voltage drops or open circuits
- 7 If all else checks out, replace the image processing sensor and perform any required calibration or initialization procedure

What most technicians overlook with U056E

- A dirty windshield or a bug splat directly in front of the camera is one of the most common causes of this code, and a simple cleaning often resolves it without any parts replacement.
- The image processing sensor often shares a circuit with other driver-assist sensors, so a fault in a related module can cause invalid data to be reported for the camera even when the camera itself is fine.
- Aftermarket window tint, toll transponders, or dashcams mounted in the camera's field of view can obstruct the sensor and trigger this code intermittently.
- Low battery voltage or a failing alternator can cause the sensor to output corrupted data, so always verify charging system health before condemning the sensor.
- This code does not always mean the sensor is defective; a software glitch or a calibration that was lost after battery replacement or windshield replacement is a frequent culprit.

Can I keep driving with U056E?

The vehicle remains safe to drive in most cases because the affected driver-assist features will simply be disabled, but you should not rely on lane keeping or automatic emergency braking until the fault is repaired. Avoid long trips in adverse weather where those systems would be most beneficial, and have the code diagnosed promptly to restore full safety functionality.

Tools that help

- OBD-II scan tool with live data and module communication capabilities
- Digital multimeter for checking power, ground, and signal circuits
- Trim removal tools for accessing sensor mounting areas
- Contact cleaner and dielectric grease for connector servicing
- Vehicle-specific service information for wiring diagrams and calibration procedures



Reading U056E

- 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.
- 6E** The exact fault within that area.

Often seen with

U0401 Invalid Data Received From ECM/PCM · **U0415** Invalid Data Received From Anti-Lock Brake System Control Mo · **U0565** Invalid Data Received From Camera Module - Rear · **U056F** Invalid Data Received From Image Processing Sensor J · **U3000** Control Module

See it working

Watch the animated explainer [How a Coolant Temperature Sensor Works](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u056e/>

