



U056D

Invalid Data Received From Image Processing Sensor H

U056D means the module that receives data from Image Processing Sensor H has detected invalid or missing messages from that sensor over the vehicle's communication network. The sensor itself may be working, but the receiving module cannot trust the data it is getting, so it sets this communication fault.

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

Symptoms you may notice

- A warning light for the driver assistance system, camera system, or forward collision alert on the dashboard
- Adaptive cruise control, lane keeping assist, or automatic emergency braking becomes unavailable or intermittent
- A message on the driver information screen saying a camera or sensor is blocked, unavailable, or needs service
- The vehicle may default to normal cruise control or disable cruise control entirely
- Often no symptoms besides the warning light, with the vehicle driving normally
- In some cases, the parking assist or rear camera display may show a blank screen or error message

Common causes, most likely first

- 1 A weak or failing 12-volt battery or poor charging system voltage causing communication errors on the network
- 2 Corroded, loose, or damaged wiring and connectors at Image Processing Sensor H or at the receiving module
- 3 Image Processing Sensor H itself has an internal fault and is sending invalid data
- 4 The receiving module (often the driver assistance camera module or body control module) has a software glitch or internal fault
- 5 A communication network fault such as a shorted or open data bus wire between the sensor and the module
- 6 Aftermarket accessories or improper electrical repairs that introduce interference on the communication bus
- 7 Water intrusion or physical damage to the sensor or its connector, especially after a collision or windshield replacement



How to diagnose and fix it

- 1 Check the battery voltage and charging system; a weak battery is a common cause of communication codes and should be ruled out first
- 2 Inspect the connector and wiring at Image Processing Sensor H for corrosion, looseness, or damage, and clean or repair as needed
- 3 Clear the code and test-drive the vehicle to see if U056D returns immediately or only under specific conditions
- 4 Check for technical service bulletins (TSBs) or software updates for the receiving module and the sensor, as reflashing often resolves invalid data codes
- 5 If the code persists, substitute a known-good Image Processing Sensor H if accessible, or perform a wiggle test on the harness while watching live data
- 6 Use a scan tool to monitor communication data from the sensor and check for other codes in the same module that may point to a shared power or ground fault
- 7 If all wiring and power checks pass, follow the manufacturer's diagnostic flow for replacing or reprogramming the receiving module or the sensor

Before you replace the image processing sensor

- A low or failing battery is one of the most overlooked causes of U056D; communication codes often appear when voltage drops during cranking or under load, so load-test the battery before condemning any sensor.
- The code does not always mean the sensor is defective; it can be set by a software bug in the receiving module, and a simple reflash or software update may be the correct fix.
- Windshield replacement or collision repair that disturbs the camera mounting or connector is a frequent trigger for this code, even if the sensor itself was not damaged.
- Aftermarket electrical accessories wired into the same circuit or communication bus can introduce noise that corrupts data and sets invalid data codes.
- Always check for other codes in the same module; a shared power or ground fault can cause multiple invalid data codes and mislead you into replacing several components.

Can I keep driving with U056D?

The vehicle is generally safe to drive because the fault affects driver assistance features rather than core engine or braking functions, but you should not rely on adaptive cruise control, lane keeping, or automatic emergency braking until the fault is repaired. Avoid long trips or towing if the warning light is accompanied by other electrical symptoms.



Tools that help

- OBD-II scan tool with live data and module communication capabilities
- Digital multimeter for voltage and continuity checks
- Battery load tester or conductance tester
- Wiring diagram and connector pinout for the vehicle
- Trim removal tools for accessing sensor connectors
- Manufacturer-specific diagnostic software or a capable aftermarket scan tool for module reflashing

Reading U056D

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.
6D	The exact fault within that area.

Often seen with

U0100 Lost Communication With ECM/PCM A · **U0121** Lost Communication With Anti-Lock Brake System (ABS) Control · **U0140** Lost Communication With Instrument Panel Cluster · **U056C** Invalid Data Received From Image Processing Sensor G · **U056E** Invalid Data Received From Image Processing Sensor I

See it working

Watch the animated explainer [How a Jet Engine Works: Two-Spool Turbofan](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u056d/>

