



U053D

Invalid Data Received From Image Processing Module C

U053D means the vehicle's network has flagged the image processing module C as sending data that other modules consider invalid or corrupted. The image processing module is the camera-based controller that interprets visual data for driver-assist features, and the code is set when its messages fail plausibility or checksum validation on the CAN bus.

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

Symptoms you may notice

- A warning light or message for a driver-assist or camera system appearing on the dashboard
- Lane keeping, adaptive cruise, or automatic emergency braking features becoming unavailable or intermittent
- A camera or vision system fault message displayed in the driver information center
- Often no symptoms besides the warning light, with the vehicle driving normally
- Multiple unrelated driver-assist warnings appearing together because several features share the camera data
- The system resetting or recovering after the vehicle is restarted, then the warning returning

Common causes, most likely first

- 1 A weak or failing 12-volt battery causing low voltage to the image processing module during startup or operation
- 2 Corroded, loose, or damaged connectors at the image processing module or its camera inputs
- 3 Chafed or open wiring in the camera or module harness, especially where it passes through a hinge or grommet
- 4 A software or calibration fault in the image processing module requiring a reflash or recalibration
- 5 A failing image processing module itself, particularly after water intrusion or heat damage
- 6 A camera lens that is obstructed, cracked, or misaligned so the module cannot produce valid data
- 7 Network communication faults on the CAN bus, including a shorted or intermittently open data line



How to diagnose and fix it

- 1 Perform a full battery and charging system test, including a load test and voltage drop check, before touching any module
- 2 Scan all modules for related codes and record freeze-frame data to see when and under what conditions U053D set
- 3 Inspect the image processing module connectors and camera harness for corrosion, water intrusion, and loose pins
- 4 Check the camera lens and mounting area for obstruction, damage, or misalignment that would corrupt the image data
- 5 Verify power, ground, and CAN bus integrity at the image processing module with a multimeter and oscilloscope
- 6 Check for and apply any available software updates or recalibration procedures for the image processing module
- 7 If all wiring and power checks pass, substitute a known-good module or perform a guided diagnostic before replacement

Why camera codes often start at the battery

- A marginal battery that still starts the engine can drop voltage enough during a cold start to make the image processing module send invalid data, setting U053D without any hard camera fault.
- Technicians often replace the image processing module only to find the real problem was a corroded ground or a chafed harness behind the front bumper or inside the liftgate.
- U053D can be set by a camera that is simply obstructed by mud, snow, or a sticker, so always clean and inspect the lens before condemning any electronics.
- Because several driver-assist features share the same camera data, one invalid message from the image processing module can trigger a cascade of unrelated warning lights that misleads diagnosis.
- After any module replacement or harness repair, the camera system usually requires a calibration drive or static target calibration, and skipping it will bring the code back.

Can I keep driving with U053D?

The vehicle remains safe to drive in most cases because the fault affects driver-assist features rather than core engine or braking control. Avoid relying on lane keeping, adaptive cruise, or automatic emergency braking until the fault is repaired, and address the code promptly if the warning persists.



Tools that help

- OBD-II scan tool with manufacturer-level module access and freeze-frame capability
- Digital multimeter for voltage, ground, and continuity checks
- Oscilloscope for CAN bus signal integrity testing
- Battery load tester and charging system analyzer
- Trim removal tools for accessing camera and module harnesses
- Manufacturer service information for calibration and software update procedures

Reading U053D

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.
3D	The exact fault within that area.

Often seen with

U0121 Lost Communication With Anti-Lock Brake System (ABS) Control · **U0140** Lost Communication With Instrument Panel Cluster · **U0401** Invalid Data Received From ECM/PCM · **U053C** Invalid Data Received From Image Processing Module B

See it working

Watch the animated explainer [How a Boxer Engine Works: Flat Engine Cutaway](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u053d/>

