



U053B

Invalid Data Received From Image Processing Module A

U053B is a communication fault where a control module on the vehicle's network receives data from the image processing module A that it considers invalid or corrupted. The image processing module handles camera-based driver assistance functions, and the receiving module has detected that the data frames are missing, out of range, or failing checksum validation.

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

Symptoms you may notice

- A warning light for a driver assistance system such as lane keeping or forward collision alert
- A message on the dash stating that camera or image processing features are unavailable
- Adaptive cruise control or automatic emergency braking may be disabled
- The infotainment screen may show a camera feed that is blank, frozen, or distorted
- Often no symptoms besides the warning light if the fault is intermittent
- Multiple unrelated warning lights may appear if the network bus is disturbed

Common causes, most likely first

- 1 A failing or intermittently failing image processing module A
- 2 Corroded, loose, or damaged pins in the image processing module's electrical connector
- 3 A chafed or open circuit in the controller area network (CAN) bus wiring between the image processing module and the receiving module
- 4 Low battery voltage or a weak charging system causing the image processing module to drop offline momentarily
- 5 A software or calibration error in the image processing module after a battery replacement or windshield service
- 6 A faulty receiving module that incorrectly flags valid data as invalid
- 7 Aftermarket accessories wired into the camera or network circuit causing signal interference



How to diagnose and fix it

- 1 Use a scan tool to read all stored codes and record the exact fault status and freeze-frame data before clearing anything
- 2 Inspect the image processing module connector for corrosion, pushed pins, or water intrusion and clean or repair as needed
- 3 Check battery voltage and charging system output to rule out low-voltage dropouts
- 4 Perform a wiggle test on the CAN bus wiring at the image processing module while watching live data for dropouts
- 5 Verify the image processing module has the latest software and perform any required calibration after windshield or camera work
- 6 If wiring and power are good, substitute a known-good image processing module A and recheck for the code
- 7 Clear codes and perform a road test to confirm the fault does not return before releasing the vehicle

Before you replace the image processing module

- A weak battery or a loose ground connection is a common cause of this code because the image processing module can reboot mid-frame and send invalid data that the receiving module flags.
- Windshield replacement or camera bracket work often sets U053B if the camera is not recalibrated, so check service history before condemning the module.
- The code can be stored by a module other than the one you are scanning, so always check every module on the network for related communication codes.
- Aftermarket dashcams or phone mounts wired near the camera can introduce electrical noise that corrupts the data stream and triggers this code.
- U053B does not always mean the image processing module is dead; a poor connection at the receiving module's connector can cause it to misread valid data.

Can I keep driving with U053B?

You can usually drive the vehicle, but advanced driver assistance features such as automatic emergency braking and lane keeping may be disabled, so do not rely on them. Avoid long trips until the fault is diagnosed, and have the system checked promptly if the warning light is accompanied by other electrical symptoms.

Tools that help

- OBD-II scan tool with manufacturer-level module access
- Digital multimeter
- CAN bus breakout box or oscilloscope
- Terminal pick and electrical contact cleaner
- Battery load tester
- Vehicle service information for wiring diagrams and calibration procedures



Reading U053B

- 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.
- 3B** 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 · **U053A** Invalid Data Received From Entrapment Control Module A · **U053C** Invalid Data Received From Image Processing Module B

See it working

Watch the animated explainer [Engine Cooling System Trainer: How Engines Stay Cool](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u053b/>

