

GENERIC · NETWORK

U05B7

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U05B7

Invalid Data Received From Rear Radar Module A

U05B7 is a communication fault where the vehicle's main network gateway or control module receives data from the rear radar module A that fails its internal validity check. The computer has detected that the messages arriving from that radar are missing expected parameters, out of range, or corrupted, so it flags the data as invalid rather than trusting it.

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

Symptoms you may notice

- Rear cross-traffic alert or blind spot monitoring warning light illuminated on the dash
- Often no symptoms besides the warning light, with the radar system simply disabled
- Blind spot warning indicators staying dark or flashing erratically in the mirrors
- Rear cross-traffic alert failing to sound when reversing toward crossing traffic
- Parking assist or rear automatic braking features becoming unavailable
- Intermittent warnings that appear in damp weather or after a car wash

Common causes, most likely first

- 1 Corroded or water-intruded connector at the rear radar module A, especially behind the rear bumper
- 2 Damaged or chafed wiring harness between the radar module and the network gateway
- 3 Failed rear radar module A due to internal electronics fault or impact damage
- 4 Low or unstable battery voltage causing the radar module to send corrupted data frames
- 5 Software calibration mismatch after a bumper repair or module replacement
- 6 Network communication bus fault, such as a shorted CAN (Controller Area Network) line, affecting data integrity
- 7 Aftermarket accessories or poor previous repairs disturbing the radar wiring



How to diagnose and fix it

- 1 Scan all modules for stored and pending codes, then record freeze-frame data for U05B7 before clearing anything
- 2 Inspect the rear radar module A connector and pins for corrosion, water intrusion, or loose terminals
- 3 Check battery voltage and charging system output to rule out low-voltage data corruption
- 4 Perform a wiggle test on the radar harness while watching live data for dropouts or invalid frames
- 5 Verify the radar module has the latest software and calibration, and reflash or recalibrate if required
- 6 If wiring and power are good, substitute a known-good rear radar module A and retest communication
- 7 Clear codes and perform a road test to confirm the fault does not return

Why rear radar data goes invalid

- A common miss is a rear bumper repair or replacement that leaves the radar bracket bent, causing the module to send out-of-range data that the gateway rejects as invalid.
- This code does not always mean the radar module is dead; a weak battery or a poor ground can corrupt the data frames and set U05B7 without any module failure.
- Technicians often replace the radar module only to find the real fault is a chafed harness behind the rear wheel arch where road debris has worn through the loom.
- Aftermarket trailer wiring or a poorly installed dash camera can introduce electrical noise on the network and trigger invalid data codes from the rear radar.
- The gateway module itself can be the culprit if its internal network filter fails, so always check for other U-codes before condemning the radar.

Can I keep driving with U05B7?

The vehicle remains safe to drive because the fault disables only the rear radar convenience features, but you should not rely on blind spot monitoring or rear cross-traffic alert until repaired. Avoid reversing in tight spaces where those aids would normally warn you.

Tools that help

- OBD-II scan tool with live data and module communication capability
- Digital multimeter for voltage and continuity checks
- Wiring diagram and connector pinout for the rear radar circuit
- Trim removal tools for accessing the rear bumper area
- Battery load tester or charging system tester



Reading U05B7

- 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.
- B7** The exact fault within that area.

Often seen with

U0100 Lost Communication With ECM/PCM A · **U0122** Lost Communication With Vehicle Dynamics Control Module · **U0140** Lost Communication With Instrument Panel Cluster · **U05B6** Invalid Data Received From Front Radar Module B · **U05B8** Invalid Data Received From Rear Radar Module B

See it working

Watch the animated explainer [How a Catalytic Converter Works: 3D Cutaway](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u05b7/>

