

GENERIC · NETWORK

U045A

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U045A

Invalid Data Received From Parking Assist Control Module A

U045A means the vehicle's network gateway or a control module received invalid or missing data from Parking Assist Control Module A over the controller area network (CAN) bus. The computer detected a message from that module that was out of range, corrupted, or absent when expected, so it flagged the communication as invalid rather than simply lost.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	Medium	Professional	Invalid data received from a module

Symptoms you may notice

- Parking assist warning light or message on the dashboard
- Parking sensors or backup camera guidelines may stop working or behave erratically
- Audible parking alerts may be silent or sound continuously
- Often no symptoms besides the warning light
- Other driver assistance features that rely on parking assist data may be disabled
- Intermittent operation of parking assist in wet or cold conditions

Common causes, most likely first

- 1 Faulty parking assist control module A
- 2 Damaged or corroded wiring or connector at the parking assist module
- 3 CAN bus communication fault such as a short or open in the network wiring
- 4 Low or unstable battery voltage affecting module communication
- 5 Water intrusion into the parking assist module or connector
- 6 Software or calibration issue in the parking assist module
- 7 Failed parking sensor causing the module to send invalid data



How to diagnose and fix it

- 1 Verify battery voltage and charging system output, as low voltage can cause communication errors
- 2 Inspect the parking assist module connectors and wiring for corrosion, water damage, or loose pins
- 3 Check the CAN bus wiring for shorts, opens, or excessive resistance between the module and the gateway
- 4 Scan all modules for related codes and perform a network integrity test if supported
- 5 Test individual parking sensors and their wiring for proper signal and power
- 6 Reprogram or recalibrate the parking assist module with the latest software if applicable
- 7 Replace the parking assist control module A if communication and sensor tests confirm it is faulty

What most technicians miss on U045A

- A weak or failing battery often sets U045A because modules drop offline during cranking, so always load-test the battery before condemning the parking assist module.
- Water intrusion into the parking assist module or its connectors is a common hidden cause, especially on vehicles where the module is mounted low in the rear quarter panel.
- U045A can be stored by a single failing parking sensor that sends out-of-range data, so test each sensor individually rather than replacing the module first.
- The code does not always mean the parking assist module is dead; a corrupted CAN message from another module can cause the gateway to flag invalid data from module A.
- After replacing or repairing the module, some vehicles require a calibration drive or a relearn procedure before parking assist functions return to normal.

Can I keep driving with U045A?

You can usually drive the vehicle, but parking assist and related driver aids may be inoperative, so do not rely on them and park manually until the fault is repaired. Avoid extended driving if the warning light is accompanied by other communication or safety system warnings.

Tools that help

- OBD-II scan tool with CAN bus and module communication capability
- Digital multimeter for voltage and resistance checks
- Battery load tester
- Wiring diagram and connector pinout for the parking assist system
- Oscilloscope for CAN bus signal analysis



Reading U045A

- U** Network: communication between the vehicle's control modules.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 4** Invalid data received from a module.
- 5A** The exact fault within that area.

Often seen with

U045B Invalid Data Received From Anti-Lock Brake System (ABS) Cont · **U045C** Invalid Data Received From Power Steering Control Module B · **U045D** Invalid Data Received From Automated Driving System Control · **U045E** Invalid Data Received From Automated Driving System Control · **U045F** Invalid Data Received From Automated Driving System Interfac

See it working

Watch the animated explainer [Master the Four-Stroke Engine Cycle](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u045a/>

