



U031E

Software Incompatibility With Parking Assist Control Module B

U031E means the parking assist control module B reported a software version or configuration that is incompatible with another module on the vehicle's controller area network (CAN) bus. The computer detected a mismatch in software identification or calibration data during a handshake between modules, so the parking assist feature may be disabled.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	Low	Professional	Software and configuration mismatches

Symptoms you may notice

- Parking assist warning light illuminated on the dashboard
- Parking sensors or automatic parking feature not functioning
- Often no symptoms besides the warning light
- Intermittent parking assist operation or false alerts
- Related driver assistance systems may be disabled

Common causes, most likely first

- 1 Software or firmware mismatch between parking assist module B and another module
- 2 Aftermarket or incorrect module installed without proper programming
- 3 Failed software update or incomplete reprogramming procedure
- 4 Corrupted configuration data in the parking assist module
- 5 CAN bus communication errors causing incomplete software handshake
- 6 Faulty parking assist control module B

How to diagnose and fix it

- 1 Scan all modules for stored codes and record freeze-frame data
- 2 Verify battery voltage and check for loose or corroded connections at the parking assist module
- 3 Check for technical service bulletins (TSBs) or software updates from the manufacturer
- 4 Reprogram or update the parking assist module B with the latest software
- 5 Perform a configuration or adaptation reset using a factory-level scan tool
- 6 Inspect CAN bus wiring for shorts, opens, or interference
- 7 Replace and program the parking assist control module B if software cannot be corrected



Before you replace the parking assist module

- A weak battery or poor ground can cause modules to drop off the bus during programming, leading to a false U031E.
- Aftermarket parking sensors or modules often lack correct software identification and trigger this code even when they function.
- The code may be stored in a module other than the parking assist module, so always check all modules for related codes.
- A simple battery disconnect and reconnect can sometimes clear a temporary software handshake error, but proper reprogramming is usually required.
- U031E can be set by a mismatch in as-built data after a module replacement, even if the hardware is correct.

Can I keep driving with U031E?

The vehicle remains safe to drive because parking assist is a convenience feature, but avoid relying on parking sensors or automatic parking until the fault is repaired. Have the system diagnosed soon to prevent further module communication issues.

Tools that help

- OBD-II scan tool with manufacturer-specific software
- Factory-level diagnostic tool for reprogramming
- Digital multimeter
- CAN bus tester
- Battery charger or power supply

Reading U031E

U	Network: communication between the vehicle's control modules.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
3	Software and configuration mismatches.
1E	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 · **U031D** Software Incompatibility With Parking Assist Control Module · **U031F** Software Incompatibility With Accessory Protocol Interface M



See it working

Watch the animated explainer [How ABS Works: Anti-Lock Brakes in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u031e/>

