

GENERIC · NETWORK

U0317

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0317

Software Incompatibility with Park Brake Control Module

U0317 is a network communication code indicating that the park brake control module (the electronic module that operates the electric parking brake) is running software that is incompatible with the rest of the vehicle's modules. The computer detected a mismatch in software version, calibration, or configuration data between the park brake module and the modules it communicates with over the controller area network (CAN) bus.

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

Symptoms you may notice

- The electronic parking brake warning light stays illuminated or flashes on the dashboard.
- The parking brake may fail to engage or release automatically, or may only work manually.
- A message such as 'Parking Brake Fault' or 'Service Parking Brake' appears in the driver information center.
- The parking brake may apply or release unexpectedly, or the auto-hold function stops working.
- Often no symptoms besides the warning light, with the brake still functioning normally.
- Other driver-assist features that rely on the park brake module, such as hill-start assist, may be disabled.

Common causes, most likely first

- The park brake control module was replaced with a unit carrying the wrong software version or calibration for the vehicle.
- A software update was performed on one module but not on the park brake module, creating a version mismatch.
- The park brake module was not properly configured or programmed after installation.
- A faulty or interrupted reprogramming event left the module with corrupted or incomplete software.
- The park brake module itself has an internal fault that prevents it from reporting a compatible software identity.
- CAN bus communication errors or a weak battery during programming caused the module to store an incompatibility flag.



How to diagnose and fix it

- 1 Connect a scan tool and read all modules for stored codes, then record the park brake module's software part number and calibration ID.
- 2 Check the vehicle manufacturer's service information for any published software updates or reprogramming procedures for the park brake module.
- 3 Verify battery voltage and charging system health, then clear the code and recheck to see if it returns immediately.
- 4 Reprogram or reconfigure the park brake module with the correct software using a factory-level scan tool or equivalent.
- 5 If reprogramming fails or the module will not accept the correct software, inspect the CAN bus wiring and connectors at the park brake module for damage or corrosion.
- 6 Replace the park brake control module with a new or remanufactured unit, then program and configure it to the vehicle.
- 7 After repair, perform a full system scan to confirm no related codes remain and test the parking brake through several engage and release cycles.

Why a simple module swap triggers U0317

- Many technicians replace a failed park brake module with a used unit from another vehicle, which almost always carries incompatible software and sets U0317 immediately.
- A battery that drops below a safe threshold during a reprogramming event can leave the module with a partial software image that reports as incompatible even though the hardware is fine.
- U0317 can be set by a mismatch in configuration data rather than the software itself, so reflashing the module without performing the configuration step will not clear the code.
- Some vehicles require the park brake module to learn the vehicle's identification number (VIN) and axle ratio after replacement, and skipping this step stores U0317.
- The code can appear after a manufacturer-issued over-the-air update affects another module on the network, leaving the park brake module behind on an older software level.

Can I keep driving with U0317?

The vehicle is generally safe to drive because the foundation brakes are unaffected, but the electronic parking brake may not hold the car on a hill or may fail to release automatically. Avoid parking on steep inclines and use wheel chocks if the parking brake will not engage until the fault is repaired.



Tools that help

- Factory-level scan tool or equivalent capable of module programming and configuration
- Digital multimeter for battery and CAN bus voltage checks
- Battery charger or power supply to maintain voltage during reprogramming
- Socket and trim tool set for accessing the park brake control module
- Vehicle service information subscription for software and configuration procedures

Reading U0317

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

Often seen with

U0100 Lost Communication With ECM/PCM A · **U0128** Lost Communication With Park Brake Control Module · **U0316** Software Incompatibility with Vehicle Dynamics Control Modul · **U0318** Software Incompatibility with Brake System Control Module

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/u0317/>

