

GENERIC · NETWORK

U0417

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0417

Invalid Data Received From Park Brake Control Module

U0417 means the vehicle's main computer network received a data message from the park brake control module that it judged invalid, so it flagged the module's communication as unreliable. The park brake module is the electronic unit that operates the electric parking brake, and the invalid data typically stems from a wiring, power, or module fault rather than a brake mechanical problem.

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

Symptoms you may notice

- The electric parking brake warning light stays on or flashes on the dashboard.
- The parking brake may fail to apply or release automatically, or the switch may feel unresponsive.
- A message such as 'Parking Brake Fault' or 'Service Parking Brake' appears in the driver information display.
- The vehicle may refuse to release the parking brake when you try to drive away.
- Often no symptoms besides the warning light, with the parking brake still working normally.
- Other dashboard warnings may appear if the fault disrupts communication on the network.

Common causes, most likely first

- A weak or failing 12-volt battery or poor charging system voltage causing the park brake module to send corrupted data.
- Damaged, corroded, or loose wiring and connectors at the park brake control module or along its network bus.
- A faulty park brake control module that is failing internally and transmitting invalid messages.
- Water intrusion or corrosion into the park brake module connector or housing.
- A network communication fault, such as a shorted or open data bus wire, that corrupts messages from the park brake module.
- A poor ground connection for the park brake module or the body control module it communicates with.
- Aftermarket accessories or improper electrical repairs that introduce interference on the network.



How to diagnose and fix it

- 1 Scan all modules for stored codes and record the full set, because U0417 rarely appears alone and companion codes point to the real fault.
- 2 Test the battery and charging system voltage, including a load test, and recharge or replace the battery if it is weak.
- 3 Inspect the park brake control module connector and wiring for corrosion, water intrusion, loose pins, and chafed insulation.
- 4 Check the module's power and ground circuits with a multimeter and verify clean, tight ground connections.
- 5 Measure the network bus voltage and resistance at the park brake module connector to confirm the data lines are intact.
- 6 If wiring and power are good, substitute a known-good park brake module or perform a module relearn and recheck for the code.
- 7 Clear the codes and verify the repair by cycling the parking brake several times and confirming U0417 does not return.

What the park brake module is really telling you

- U0417 is a communication code, not a brake hardware code, so replacing brake pads, calipers, or the parking brake motor rarely fixes it.
- A weak battery is one of the most common hidden causes, because low voltage can make the park brake module transmit invalid data without setting a battery code.
- The park brake module often shares a network segment with the body control module, so a fault there can set U0417 even when the park brake module itself is healthy.
- Water intrusion into connectors near the rear brakes or underbody is a frequent culprit that visual inspection of the module alone will miss.
- Clearing the code without checking for companion communication codes can send you chasing the wrong module, so always review the full scan first.

Can I keep driving with U0417?

You can usually drive the vehicle, but avoid relying on the electric parking brake until the fault is repaired, and do not park on steep hills where the brake may not hold. If the parking brake is stuck applied or will not release, do not drive and have the vehicle serviced.

Tools that help

- OBD-II scan tool with full system and network capability
- Digital multimeter
- Battery load tester
- Wiring diagram and connector pinout for the park brake module
- Trim removal tools for accessing module connectors



Reading U0417

- 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.
- 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 · **U0416** Invalid Data Received From Vehicle Dynamics Control Module · **U0418** Invalid Data Received From 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/u0417/>

