

GENERIC · CHASSIS

C0024

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

C0024

Brake Pedal Feedback Pressure Solenoid Circuit

C0024 indicates that the anti-lock brake system (ABS) control module has detected an electrical fault in the circuit for the brake pedal feedback pressure solenoid, which is a valve that helps modulate hydraulic pressure during ABS or stability control events. The module monitors the solenoid's voltage and current and sets this code when the signal falls outside the expected range, often due to an open, short, or excessive resistance in the wiring or solenoid coil.

SYSTEM

Chassis

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Professional

AREA

Brakes, steering and suspension

Symptoms you may notice

- Illumination of the ABS warning light, and often the traction control and stability control lights as well
- Often no symptoms besides the warning light, with normal brake pedal feel and braking performance
- A soft or spongy brake pedal if the solenoid is stuck open or leaking internally
- Reduced or disabled ABS and stability control functions, which may only be noticed during hard braking or slippery conditions
- In rare cases, a slight brake drag or pull if the solenoid remains partially energized

Common causes, most likely first

- 1 Damaged or corroded wiring harness or connector at the brake pressure solenoid
- 2 Faulty brake pedal feedback pressure solenoid (open or shorted coil)
- 3 Failed ABS control module or internal driver circuit for the solenoid
- 4 Blown fuse or poor ground connection serving the ABS module or solenoid circuit
- 5 Contamination or debris in the brake hydraulic fluid causing solenoid valve sticking
- 6 Low brake fluid level or air in the hydraulic system affecting solenoid operation



How to diagnose and fix it

- 1 Check the brake fluid level and inspect for leaks, topping up or repairing as needed
- 2 Inspect the ABS fuse and relay, and verify battery voltage and ground connections at the ABS module
- 3 Visually inspect the solenoid wiring and connector for corrosion, chafing, or loose pins, and repair as necessary
- 4 Disconnect the solenoid connector and measure resistance across the solenoid coil; compare to manufacturer specifications
- 5 Check for short to ground or voltage on the solenoid control circuit using a multimeter or test light
- 6 If the solenoid coil is out of specification, replace the solenoid or the ABS hydraulic unit as required
- 7 Clear the code and perform a road test to verify the repair, ensuring the ABS warning light stays off

What the code does not always mean

- A C0024 code is frequently set by a simple wiring issue such as a corroded connector or chafed wire, so always inspect the harness before condemning the ABS module or solenoid.
The brake pedal feedback pressure solenoid is part of the ABS hydraulic unit on many vehicles, meaning a failed solenoid often requires replacing the entire unit rather than a standalone part.
- Some vehicles may store C0024 as a history code after a low-voltage event or battery replacement, so check for other low-voltage codes and clear the code to see if it returns.
- A sticking solenoid can cause a dragging brake that may be misdiagnosed as a seized caliper, so pay attention to wheel temperatures after a drive.
The ABS module may disable the entire stability control system when this code is active, so the driver may notice reduced traction control even if the ABS light is the only warning.

Can I keep driving with C0024?

The vehicle remains safe to drive under normal conditions because base braking is unaffected, but the ABS and stability control systems are disabled, so avoid hard braking or slippery surfaces and have the fault diagnosed promptly. If the brake pedal feels abnormal or the vehicle pulls to one side, stop driving and seek professional assistance immediately.

Tools that help

- OBD-II scan tool with ABS capability
- Digital multimeter
- Test light
- Wire repair kit (solder, heat shrink, connectors)
- Brake fluid tester and bleeding kit
- Vehicle-specific service information for solenoid resistance specifications



Reading C0024

- C** Chassis: brakes, steering and suspension.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 0** Brakes, steering and suspension.
- 24** The exact fault within that area.

Often seen with

C0025 ABS Pump Motor Stalled · **C0035** Left Front Wheel Speed Sensor Circuit Range/Performance · **C0040** Left Rear Wheel Speed Sensor Circuit · **C0050** Right Rear Wheel Speed Sensor Circuit Malfunction

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/c0024/>

