

GENERIC · CHASSIS

C059F

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

C059F

Brake Pressure Sensor E Circuit Low

C059F means the antilock braking system (ABS) control module has detected an abnormally low voltage on the electrical circuit for brake pressure sensor E, which is one of several pressure sensors used to monitor hydraulic brake pressure. The computer expects a voltage within a specific range and sees a signal that is too low, indicating a short to ground, a faulty sensor, or a wiring problem.

SYSTEM

Chassis

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Brakes, steering and suspension

Symptoms you may notice

- The ABS warning light and often the red brake warning light illuminate on the dashboard.
- The traction control and stability control systems may be disabled, with their warning lights also on.
- The driver may notice a reduction in brake assist or an unusually firm brake pedal feel.
- In some vehicles, the cruise control or hill-start assist may become inoperative.
- Often no symptoms besides the warning light, with normal brake operation in light driving.
- A stored code may be the only clue if the fault is intermittent and does not affect braking performance.

Common causes, most likely first

- 1 A faulty brake pressure sensor E, internally shorted or failing to produce the correct voltage.
- 2 Damaged or corroded wiring between the sensor and the ABS control module, such as a chafed wire shorting to ground.
- 3 A poor electrical connection at the sensor connector or the ABS module connector, often due to water intrusion or corrosion.
- 4 Low brake fluid level or air in the hydraulic system causing the sensor to read outside its expected range.
- 5 A malfunctioning ABS control module, though this is less common than sensor or wiring issues.
- 6 A blown fuse or poor ground connection that affects the sensor's reference voltage circuit.



How to diagnose and fix it

- 1 Check the brake fluid level and inspect for leaks; top up or repair as needed, then clear the code and retest.
- 2 Visually inspect the brake pressure sensor E and its wiring harness for damage, corrosion, or loose connections; repair or replace as necessary.
- 3 Use a scan tool to view live data from the brake pressure sensor and compare it with a mechanical pressure gauge to confirm the sensor's accuracy.
- 4 Perform a voltage drop test on the sensor's ground and signal circuits to identify excessive resistance or a short to ground.
- 5 If the sensor is suspect, test it with a multimeter according to the manufacturer's specifications, and replace it if it fails the test.
- 6 Check for technical service bulletins (TSBs) or software updates for the ABS module that may address false setting of this code.
- 7 After repairs, clear the code and perform a road test to verify the fix and ensure the ABS system operates correctly.

Common traps when diagnosing C059F

- A low brake fluid level is a frequent cause of this code because the pressure sensor may not receive enough hydraulic pressure to produce a normal voltage signal.
- Corrosion inside the sensor connector can create a short to ground that mimics a failed sensor, so always inspect the pins and seals before replacing parts.
- The code can be set by a momentary voltage drop during engine cranking if the battery is weak, so check battery condition and charging system first.
- On some vehicles, the brake pressure sensor is part of the hydraulic control unit and cannot be replaced separately, requiring a costly module replacement if diagnosed incorrectly.
- A faulty ABS module ground can cause multiple sensor codes including C059F, so verify all ground points are clean and tight before condemning the module.

Can I keep driving with C059F?

The vehicle is generally safe to drive with this code as long as the brake pedal feels normal and the red brake warning light is not on, but the ABS and stability control systems may be disabled, reducing safety in emergency stops. Avoid heavy braking or slippery conditions and have the fault diagnosed promptly to restore full braking assistance.



Tools that help

- OBD-II scan tool with ABS capability
- Digital multimeter
- Brake pressure gauge
- Socket and wrench set
- Wire repair kit

Reading C059F

C Chassis: brakes, steering and suspension.

0 Generic (SAE) code: it means the same thing on every OBD-II vehicle.

5 Brakes, steering and suspension.

9F The exact fault within that area.

Often seen with

C0040 Left Rear Wheel Speed Sensor Circuit · **C0050** Right Rear Wheel Speed Sensor Circuit Malfunction · **C059E** Brake Pressure Sensor E Missing Calibration · **C0600** Active Yaw Control System Failure · **U0121** Lost Communication With Anti-Lock Brake System (ABS) Control

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/c059f/>

