

CHRYSLER · POWERTRAIN

P1586

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1586 · Chrysler

Cruise Control Brake Switch 2 Circuit

P1586 on Chrysler vehicles indicates that the powertrain control module (PCM) has detected an implausible signal or circuit fault on the second brake switch input used by the cruise control system. This switch confirms to the PCM that the brake pedal is released before allowing cruise control to engage or remain active, and the code sets when the voltage on that circuit does not match the expected state.

SYSTEM

Powertrain

CODE TYPE

Chrysler specific

SEVERITY

Low

FIX DIFFICULTY

Intermediate

AREA

Vehicle speed, idle control and auxiliary inputs

Symptoms you may notice

- Cruise control may fail to engage or may disengage unexpectedly when driving
- The cruise control indicator lamp may flash or remain off when you try to set a speed
- Often no symptoms besides the warning light, with cruise control still working normally
- The brake lights may work normally, but the cruise control may not cancel when the brake pedal is pressed
- In some cases, the engine may hesitate or the transmission may shift oddly if the PCM misinterprets the brake switch signal

Common causes, most likely first

- 1 Faulty brake switch 2 (the cruise control brake switch) on the brake pedal bracket
- 2 Misadjusted or loose brake switch 2, causing intermittent contact
- 3 Damaged or corroded wiring between brake switch 2 and the PCM
- 4 Blown fuse or poor ground connection for the brake switch circuit
- 5 Failed clockspring or wiring in the steering column affecting the cruise control circuit
- 6 PCM internal fault (rare, but possible after other causes are ruled out)



How to diagnose and fix it

- 1 Check for any related diagnostic trouble codes (DTCs) in the PCM and other modules to confirm the fault is isolated to the brake switch 2 circuit
- 2 Inspect the brake switch 2 for proper adjustment and secure mounting on the brake pedal bracket
- 3 Test the brake switch 2 with a multimeter for continuity and voltage signals in both pedal positions
- 4 Check the wiring harness and connectors between the switch and the PCM for damage, corrosion, or loose pins
- 5 Verify the fuse and ground connections for the brake switch circuit
- 6 If the switch and wiring are good, perform a wiggle test and check for intermittent signals while operating the brake pedal
- 7 Replace the brake switch 2 if it fails testing, then clear the code and verify the repair with a test drive

Brake Switch 2 Is Not Always the Culprit

- A common mistake is replacing the brake switch 2 without checking the wiring; chafed or corroded wires near the pedal assembly often cause this code.
- The brake switch 2 circuit is separate from the main brake light switch, so brake lights can work perfectly while the cruise control still fails.
- On some Chrysler models, the cruise control brake switch is integrated into the same assembly as the brake light switch, and a partial failure can set P1586 without affecting brake lights.
- A misadjusted switch that is not fully depressed when the pedal is released can set this code intermittently, especially after the pedal assembly has been serviced.
- The PCM may set P1586 if it sees an implausible signal during self-test at startup, so the code can appear even if the switch tests good later; always check for stored codes after a test drive.

Can I keep driving with P1586?

The vehicle is safe to drive because the brake lights and primary braking system are unaffected, but cruise control may be inoperative or unreliable. Avoid using cruise control until the fault is repaired, especially in traffic or hilly terrain where unexpected disengagement could be hazardous.

Tools that help

- OBD-II scan tool
- Digital multimeter
- Test light
- Wiring diagram for the specific Chrysler model
- Basic hand tools (screwdrivers, socket set)



Reading P1586

- P** Powertrain: engine, transmission and emissions.
- 1** Manufacturer-specific code (Chrysler): its meaning depends on the make.
- 5** Vehicle speed, idle control and auxiliary inputs.
- 86** The exact fault within that area.

Often seen with

P1585 Transmission Mount Valves Open Circuit · **P1585** Cruise Inhibit Control Circuit · **P1585** Throttle Control Unit Malfunction · **P1585** Cruise Inhibit Control Circuit · **P0504** Brake Switch 'A'/'B' Correlation · **P0571** Brake Switch 'A' Circuit · **P0572** Brake Switch 'A' Circuit Low · **P0573** Brake Switch 'A' Circuit High

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/chrysler-p1586/>

