

GENERIC · CHASSIS

C0305

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

C0305

Inlet Valve Rear Left Performance

C0305 indicates that the antilock braking system (ABS) module has detected a performance fault with the rear-left inlet valve, which controls hydraulic pressure to that wheel during ABS operation. The module monitors valve response and sets this code when the valve does not react as expected, potentially compromising ABS function on that wheel.

SYSTEM

Chassis

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Professional

AREA

Brakes, steering and suspension

Symptoms you may notice

- ABS warning light illuminated on the dashboard
- Traction control or stability control warning light may also be on
- Often no symptoms besides the warning light, especially during normal braking
- Reduced or no ABS assistance at the rear-left wheel during hard braking or slippery conditions
- Pulsation or unusual noise from the ABS hydraulic unit during activation
- Brake pedal may feel different or require more effort in some situations

Common causes, most likely first

- 1 Faulty rear-left inlet valve solenoid inside the ABS hydraulic control unit
- 2 Damaged or corroded wiring or connector at the rear-left wheel speed sensor or ABS module
- 3 Contaminated or degraded brake fluid causing valve sticking
- 4 Internal hydraulic control unit failure affecting multiple valves
- 5 Loose or damaged ground connection for the ABS module
- 6 Failed ABS module internal driver circuit for the inlet valve

How to diagnose and fix it

- 1 Scan all modules for stored codes and record freeze-frame data to confirm the fault conditions
- 2 Inspect the rear-left wheel speed sensor and its wiring for damage, corrosion, or loose connections
- 3 Check brake fluid condition and level; flush if contaminated or overdue
- 4 Perform an ABS active test with a capable scan tool to command the inlet valve and observe its response
- 5 Measure resistance and voltage at the ABS module connector for the rear-left inlet valve circuit
- 6 If the valve is confirmed faulty, replace the ABS hydraulic control unit or have it rebuilt
- 7 Clear codes and verify repair with a road test that activates ABS



What most technicians overlook on C0305

- A weak or failing battery or charging system can cause the ABS module to log false valve performance codes due to low voltage during self-test.
- Corroded terminals at the ABS pump motor connector often mimic an inlet valve fault because the module shares power and ground circuits.
- Brake fluid that has absorbed moisture can cause internal valve sticking, especially in vehicles that sit for long periods.
- The code can be set by a momentary loss of communication between the ABS module and the valve, not necessarily a failed valve.
- After replacing the ABS module, some vehicles require programming or calibration, and skipping this step can leave the code stored.

Can I keep driving with C0305?

You can usually drive the vehicle with this code, but the ABS may not function correctly at the rear-left wheel, increasing stopping distance on slippery surfaces. Avoid hard braking and have the system inspected promptly.

Tools that help

- OBD-II scan tool with ABS and active test capability
- Digital multimeter
- Brake fluid tester
- Socket and wrench set
- Vehicle service information for ABS diagnostics

Reading C0305

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

Often seen with

C0300 ABS Control System Malfunction · **C0301** Air Suspension Compressor Relay · **C0302** Outlet Valve Front Left Performance · **C0303** Inlet Valve Front Right Performance · **C0304** Outlet Valve Front Right Performance



See it working

Watch the animated explainer **Four-Stroke Engine Cutaway: Intake to Exhaust** on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/c0305/>

