

GENERIC · POWERTRAIN

P0776

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P0776

Pressure Control Solenoid 'B' Performance or Stuck off

P0776 indicates that the transmission control module (TCM) has detected a performance fault with pressure control solenoid 'B', typically a shift solenoid that regulates hydraulic pressure for a specific gear change. The computer compares commanded solenoid current or duty cycle against actual transmission behavior, such as gear ratio or pressure switch response, and sets the code when the expected result does not occur within a calibrated time window.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Professional	Transmission

Symptoms you may notice

- Illumination of the check engine light or transmission warning lamp, often with no other noticeable symptoms
- Harsh or delayed shifts, particularly when engaging the affected gear
- Transmission stuck in a single gear or defaulting to limp mode
- Slipping or flaring during acceleration before the gear engages
- Erratic shift timing or shuddering under light throttle

Common causes, most likely first

- 1 Faulty pressure control solenoid 'B' internally shorted, open, or sticking
- 2 Contaminated transmission fluid or clogged solenoid screen restricting flow
- 3 Damaged or chafed wiring harness to the solenoid, including connector corrosion
- 4 Valve body wear or sticking shift valves preventing proper pressure regulation
- 5 Low transmission fluid level or degraded fluid causing poor hydraulic response
- 6 TCM software calibration issue or internal driver circuit fault

How to diagnose and fix it

- 1 Check transmission fluid level, condition, and color; top off or replace fluid if contaminated
- 2 Inspect the solenoid 'B' electrical connector and harness for corrosion, chafing, or loose pins
- 3 Measure solenoid resistance and compare to manufacturer specification; replace if out of range
- 4 Perform a voltage drop test on the solenoid control circuit under load to rule out wiring resistance
- 5 Remove and clean or replace the solenoid 'B' and inspect the valve body for debris or sticking valves
- 6 Clear the code and perform a relearn or adaptive drive cycle to verify the repair
- 7 If the fault persists, check for TCM software updates or internal driver faults before replacing the TCM

What a P0776 often hides

- A sticking valve body spool valve can mimic a failed solenoid 'B' because the solenoid commands correctly but hydraulic pressure does not follow, so replacing the solenoid alone may not fix the code.
- Debris from a failing torque converter clutch or worn clutch packs can clog the solenoid screen and cause intermittent P0776 without any electrical fault, so fluid condition is a critical clue.
- Some vehicles set P0776 when the transmission fluid is simply low or aerated after a service, and a correct level check with the engine running in the specified gear resolves the code without parts.
- The TCM may command solenoid 'B' differently during cold starts, so a fault that only appears when cold often points to a marginal solenoid coil rather than a wiring issue.
- A generic scan tool may show P0776 while the manufacturer-specific code stored in the TCM provides a more precise sub-fault, such as a stuck-off or performance condition, which guides diagnosis.

Can I keep driving with P0776?

You can usually drive the vehicle to a repair shop if the transmission still shifts and the warning light is the only symptom, but avoid heavy acceleration or towing. If the transmission slips, flares, or refuses to engage a gear, stop driving to prevent internal damage.

Tools that help

- OBD-II scan tool with transmission module access and live data
- Digital multimeter for resistance and voltage drop tests
- Transmission fluid level dipstick or scan tool fluid temperature check
- Factory service information for solenoid resistance specifications and valve body torque sequences
- Basic hand tools and a fluid drain pan for solenoid replacement

Reading P0776

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
7	Transmission.
76	The exact fault within that area.

Often seen with

P0730 Incorrect Gear Ratio · **P0741** Torque Converter Clutch Circuit Performance or Stuck Off · **P0775** Pressure Control Solenoid 'B' · **P0777** Pressure Control Solenoid 'B' Stuck On · **P0778** Pressure Control Solenoid 'B' Electrical



See it working

Watch the animated explainer [Disc Brake Trainer: How Car Brakes Stop a Wheel](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0776/>

