

FORD · POWERTRAIN

P1756

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1756 · Ford

Shift Solenoid B Performance

P1756 on Ford vehicles indicates that the transmission control module (TCM) has detected a performance problem with shift solenoid B, which controls fluid pressure for a specific gear change. The TCM monitors solenoid response and circuit integrity, and it sets this code when the solenoid does not engage or disengage as commanded, often due to electrical or hydraulic issues.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Ford specific	Medium	Professional	Transmission

Symptoms you may notice

- Check engine light or transmission warning light illuminated
- Harsh or delayed shifts, especially when changing into the gear controlled by solenoid B
- Transmission may slip or fail to engage certain gears
- Erratic shifting or failure to downshift when accelerating
- Transmission may enter limp mode (stuck in one gear)
- Often no symptoms besides the warning light, especially if the fault is intermittent

Common causes, most likely first

- 1 Faulty shift solenoid B (internal coil failure or sticking)
- 2 Damaged or corroded wiring harness or connector at the solenoid
- 3 Low or contaminated transmission fluid
- 4 Valve body issues such as stuck valves or debris blocking passages
- 5 TCM software glitch or internal fault
- 6 Poor electrical ground or power supply to the solenoid circuit

How to diagnose and fix it

- 1 Check transmission fluid level and condition; top off or replace if contaminated
- 2 Inspect the solenoid B electrical connector and wiring for damage or corrosion
- 3 Perform a resistance test on solenoid B and compare to factory specifications
- 4 Use a scan tool to command solenoid B on and off and listen for a click; verify circuit operation
- 5 Check for TCM software updates and reflash if applicable
- 6 If electrical tests pass, remove the valve body and inspect solenoid B and related valves for sticking or debris
- 7 Replace solenoid B if faulty, then clear codes and test-drive to verify repair



Don't overlook the wiring harness

- A common misdiagnosis is replacing the solenoid when the real problem is a chafed wire or corroded connector that causes intermittent faults.
- Contaminated transmission fluid can cause solenoid B to stick, so always check fluid condition before condemning the solenoid.
- The TCM may set P1756 even when the solenoid is mechanically functional but electrically out of specification due to a weak coil.
- On some Ford models, a faulty valve body or stuck shift valve can mimic solenoid B failure, so hydraulic testing is essential.
- Intermittent P1756 codes often appear after the transmission has warmed up, so testing should include a hot drive cycle.

Can I keep driving with P1756?

You can drive cautiously to a repair shop if the transmission still shifts reasonably, but avoid heavy acceleration or towing. If the transmission is in limp mode or slipping severely, stop driving to prevent further damage.

Tools that help

- OBD-II scan tool with bidirectional control
- Digital multimeter
- Transmission fluid level dipstick or scan tool for fluid level
- Factory service information for solenoid resistance specs
- Socket set and torque wrench for valve body removal

Reading P1756

P	Powertrain: engine, transmission and emissions.
1	Manufacturer-specific code (Ford): its meaning depends on the make.
7	Transmission.
56	The exact fault within that area.

Often seen with

P1751 Power Supply Voltage High · **P1752** Power Supply Malfunction · **P1753** TCM A/T Lockup Solenoid Valve "A" Fault · **P1751** A/T Control Relay · **P1751** Transmission Shift Solenoid A Mechanical Fault · **P1752** Transmission Shift Solenoid A Circuit Shorted · **P1754** Transmission Coast Clutch Solenoid Electrical Fault · **P1753** TCM A/T ECT Sensor Circuit Fault · **P1751** Shift Solenoid A Performance · **P1754** Coast Clutch Solenoid Circuit Malfunction · **P1751** Secondary Pressure Solenoid Open Circuit



See it working

Watch the animated explainer [How an Automatic Transmission Works, Gear by Gear](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/ford-p1756/>

