

GENERIC · POWERTRAIN

P099F

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P099F

Shift Solenoid H Control Circuit High

P099F means the transmission control module (TCM) has detected an abnormally high voltage on the control circuit for shift solenoid H, which is one of the solenoids that directs hydraulic pressure inside the automatic transmission. The circuit is typically ground-controlled, so a high voltage reading tells the TCM that the wire is shorted to power, the solenoid coil is open, or the ground path through the TCM has failed.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

Medium

FIX DIFFICULTY

Professional

AREA

Transmission

Symptoms you may notice

- Illuminated check engine light or transmission warning light, often with no other noticeable symptoms
- Harsh or delayed shifts, especially when the affected solenoid is commanded on
- Transmission stuck in a single gear or defaulting to limp-home mode
- Slipping or flaring during gear changes
- Rough engagement when shifting from park or neutral into drive or reverse

Common causes, most likely first

- 1 Open solenoid coil winding inside shift solenoid H
- 2 Damaged or corroded wiring harness connector at the solenoid or TCM
- 3 Short to voltage on the control wire between the TCM and solenoid H
- 4 Failed TCM driver circuit for solenoid H
- 5 Poor ground connection for the solenoid or TCM
- 6 Internal transmission fluid contamination or valve body wear affecting solenoid operation

How to diagnose and fix it

- 1 Scan all modules and record freeze-frame data to confirm P099F is current and not a stored history code
- 2 Inspect the solenoid H connector and wiring for corrosion, chafing, or loose pins
- 3 Measure resistance of solenoid H at the transmission connector and compare to the manufacturer's specification
- 4 Check for short to voltage on the control wire with the key on and the TCM disconnected
- 5 Verify the TCM ground circuit and power supply are clean and within specification
- 6 If the circuit checks good, perform a bidirectional solenoid test with a scan tool to confirm the TCM driver is commanding the solenoid
- 7 Replace the faulty solenoid or repair the wiring as indicated, then clear codes and verify the repair with a road test

Why solenoid H codes are often misdiagnosed

- A high voltage code can be set by an open solenoid coil just as easily as by a short to power, so resistance testing at the solenoid is the fastest way to separate the two.
- Many technicians replace the solenoid only to find the real fault is a corroded pin in the transmission pass-through connector, which is exposed to heat and fluid over time.
- P099F can appear after a transmission fluid service if the solenoid connector was disturbed or fluid was forced into the harness, so check recent work before condemning parts.
- The TCM may set this code intermittently when the solenoid is cold and the coil resistance is out of range, so a wiggle test and a cold-start resistance check are worth doing.
- A failing TCM driver can mimic a bad solenoid, so always confirm the control wire is not shorted before replacing the TCM.

Can I keep driving with P099F?

You can usually drive the vehicle to a repair shop, but avoid heavy acceleration and towing because the transmission may be in limp-home mode and could slip or overheat. If the transmission is stuck in one gear or refuses to engage, stop driving and arrange a tow.

Tools that help

- OBD-II scan tool with bidirectional control and transmission data
- Digital multimeter with resistance and voltage measurement
- Wiring diagram for the transmission control circuit
- Back probe pins and jumper wires
- Transmission fluid drain pan and hand tools for connector access

Reading P099F

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
9	Transmission.
9F	The exact fault within that area.

Often seen with

P0700 Transmission Control System Malfunction · **P0715** Input/Turbine Speed Sensor Circuit Malfunction · **P099C** Shift Solenoid G Control Circuit High · **P099D** Shift Solenoid H Control Circuit Range/Performance · **P099E** Shift Solenoid H Control Circuit Low



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/p099f/>

