



P07AF

Transmission Friction Element G Stuck On

P07AF indicates that the transmission control module has detected a condition where friction element G, which is a clutch or brake inside the transmission, is stuck in the applied or 'on' position when it should be released. The computer typically recognizes this when the commanded gear ratio does not match the actual ratio, or when a speed sensor indicates that a component is still rotating when it should be stationary.

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

Symptoms you may notice

- Harsh or delayed shifts, especially when engaging or disengaging the affected gear
- Transmission may feel like it is binding or dragging when coming to a stop
- Illumination of the check engine light or transmission warning light
- Limp mode or fail-safe mode with reduced power and limited gear selection
- Often no symptoms besides the warning light, especially if the fault is intermittent
- Poor fuel economy or unusual engine RPM at highway speeds

Common causes, most likely first

- 1 Sticking or failed solenoid valve that controls hydraulic pressure to friction element G
- 2 Internal transmission mechanical failure, such as a broken return spring or damaged clutch pack
- 3 Valve body wear or contamination causing hydraulic pressure to remain applied
- 4 Electrical fault in the solenoid circuit, including wiring or connector issues
- 5 Low or degraded transmission fluid leading to poor hydraulic control
- 6 Transmission control module software calibration issue or internal fault
- 7 Foreign material or debris blocking a hydraulic passage

How to diagnose and fix it

- 1 Verify transmission fluid level and condition; top off or replace fluid if contaminated
- 2 Use a scan tool to check for related codes and monitor solenoid command and gear ratio data
- 3 Perform a visual inspection of the solenoid wiring and connectors for damage or corrosion
- 4 Test the solenoid for friction element G with a multimeter and compare to specifications
- 5 Inspect the valve body for sticking valves or debris; clean or replace as needed
- 6 If internal damage is suspected, remove the transmission pan and check for clutch material or metal debris
- 7 Replace the faulty solenoid or valve body, or overhaul the transmission if mechanical failure is confirmed

What a stuck friction element really means

- A stuck-on friction element often causes binding in one gear range while other gears may seem normal, so drivers may not notice until the transmission overheats or fails.
- The code can be set by a momentary electrical glitch in the solenoid circuit, so always check connectors and wiring before condemning internal parts.
- Transmission fluid that is overdue for service can cause varnish buildup on valves, leading to sticking without any mechanical breakage.
- Some vehicles require a software update or relearn procedure after solenoid replacement to prevent the code from returning.
- A stuck friction element can cause the transmission to lock up in two gears at once, which may feel like a sudden brake application and can be dangerous.

Can I keep driving with P07AF?

If the transmission is binding or in limp mode, avoid driving to prevent internal damage and potential loss of control. If the only symptom is a warning light and the vehicle drives normally, you can drive cautiously to a repair shop, but avoid heavy acceleration or towing.

Tools that help

- OBD-II scan tool with transmission diagnostics capability
- Digital multimeter
- Transmission fluid level dipstick or scan tool for fluid level
- Socket set and wrenches for pan removal
- Factory service information for solenoid testing and torque specifications

Reading P07AF

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

Often seen with

P07A0 Transmission Friction Element G Slip Detected · **P07A1** Transmission Friction Element H Slip Detected · **P07A2** Transmission Friction Element A Performance/Stuck Off · **P07A3** Transmission Friction Element A Stuck On · **P07A4** Transmission Friction Element B Performance/Stuck Off



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/p07af/>

