

GENERIC · POWERTRAIN

P076F

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P076F

Gear 7 Incorrect Ratio

P076F indicates that the transmission control module (TCM) has detected an incorrect gear ratio for seventh gear, meaning the actual engine speed versus output shaft speed does not match the programmed ratio for that gear. This typically points to clutch slip, solenoid issues, or internal transmission wear, and the TCM may set the code after comparing input and output speed sensor signals.

SYSTEM

Powertrain

CODE TYPE

Generic (all makes)

SEVERITY

High

FIX DIFFICULTY

Professional

AREA

Transmission

Symptoms you may notice

- Check engine light or transmission warning light illuminated
- Harsh or delayed shifts, especially when engaging seventh gear
- Transmission may slip or flare during acceleration in seventh gear
- Reduced fuel economy due to improper gear engagement
- Transmission may enter limp mode, limiting gear selection
- Often no symptoms besides the warning light, especially if the fault is intermittent

Common causes, most likely first

- 1 Low or degraded transmission fluid
- 2 Faulty shift solenoid or solenoid pack
- 3 Worn clutch packs or internal transmission damage
- 4 Valve body issues causing incorrect pressure
- 5 Faulty input or output speed sensor
- 6 Wiring or connector problems in the transmission circuit
- 7 TCM software calibration issues or faulty TCM

How to diagnose and fix it

- 1 Check transmission fluid level and condition; top off or replace if needed
- 2 Scan all modules for related codes and freeze frame data
- 3 Inspect wiring and connectors at the transmission and TCM for damage or corrosion
- 4 Test shift solenoids and speed sensors with a multimeter or scan tool
- 5 Perform a transmission adaptive relearn or reset procedure
- 6 Conduct a road test with live data to compare commanded versus actual gear ratio
- 7 If internal damage is suspected, remove the transmission for bench inspection and repair



Before you replace the transmission

- A low fluid level or a clogged filter can cause ratio errors without any internal damage, so always verify fluid condition first.
- Intermittent speed sensor signals can set P076F even when the transmission is mechanically sound, so check sensor wiring and connectors carefully.
- Some vehicles use a separate transmission control module that can be reflashed or updated to correct false ratio codes.
- The code may be stored alongside other ratio codes like P0730 or P0760, indicating a broader issue rather than a single gear problem.
- A faulty valve body solenoid can mimic clutch wear, so testing solenoids before tearing down the transmission can save significant time and cost.

Can I keep driving with P076F?

If the transmission is slipping or in limp mode, avoid driving to prevent further damage and seek professional diagnosis promptly. If the vehicle drives normally with only the warning light, you may drive cautiously to a repair shop, but avoid heavy acceleration or towing.

Tools that help

- OBD-II scan tool with transmission capabilities
- Digital multimeter
- Transmission fluid level dipstick or scan tool
- Jack and jack stands or lift
- Factory service information for ratio specifications

Reading P076F

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
7	Transmission.
6F	The exact fault within that area.

Often seen with

P0700 Transmission Control System Malfunction · **P0730** Incorrect Gear Ratio · **P0760** Shift Solenoid 'C' · **P0765** Shift Solenoid 'D' · **P0770** Shift Solenoid 'E'



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/p076f/>

