



P062F

Internal Control Module EEPROM Error

P062F means the engine control module (ECM) has detected an error while reading or writing its internal electrically erasable programmable read-only memory (EEPROM), which stores learned values and configuration data. The module's self-test compares stored data against expected checksums, and a mismatch or failed write triggers this code.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Professional	Computer and output circuits

Symptoms you may notice

- Illuminated check engine light, often with no other noticeable symptoms
- Intermittent rough running or stalling if learned fuel and idle values are corrupted
- Poor fuel economy or unstable idle as the module falls back to default values
- Failed emissions test or readiness monitors that will not complete
- Occasional no-start condition if the module cannot load critical configuration data
- Other unrelated codes stored simultaneously because the module's memory is unreliable

Common causes, most likely first

- 1 Internal EEPROM failure or corruption within the engine control module
- 2 Low or unstable battery voltage during a write cycle, such as from a weak battery or poor charging system
- 3 Water intrusion or corrosion at the ECM connector or circuit board
- 4 Interrupted power or ground to the ECM during programming or key-on events
- 5 Failed or interrupted software reflash that left memory in an inconsistent state
- 6 Loose or corroded ECM ground connections causing voltage spikes

How to diagnose and fix it

- 1 Verify battery voltage and charging system output; a weak battery is a common trigger for memory write errors
- 2 Inspect ECM connectors and harness for corrosion, water intrusion, or loose pins
- 3 Check and clean all ECM ground points to ensure stable voltage reference
- 4 Use a scan tool to clear the code and perform a relearn or adaptive memory reset if the module supports it
- 5 Reprogram or reflash the ECM with the latest calibration using a factory-level tool
- 6 If the code returns after voltage and connection checks, replace and program the ECM



Why this code often is not a dead ECM

- A weak battery or failing alternator can cause a momentary voltage drop during a memory write, setting P062F without any permanent damage to the module.
- Many technicians replace the ECM immediately, but cleaning grounds and restoring stable voltage often makes the code stay away.
- This code can appear after a failed or interrupted reprogramming event, so check service history before condemning hardware.
- P062F is sometimes stored alongside communication codes like U0100, which can mislead diagnosis toward a wiring fault rather than memory corruption.
- On some vehicles the ECM will run with default values and set no drivability symptom, so the warning light may be the only clue.

Can I keep driving with P062F?

The vehicle is usually safe to drive to a repair shop, but avoid long trips or heavy load until the cause is found. If the engine stalls, idles poorly, or fails to restart, stop driving and have it towed.

Tools that help

- OBD-II scan tool with bidirectional control and code clearing capability
- Digital multimeter for voltage and ground checks
- Battery load tester and charging system tester
- Factory-level reprogramming tool or J2534 pass-thru device
- Socket set and terminal pick tools for connector inspection

Reading P062F

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
6	Computer and output circuits.
2F	The exact fault within that area.

Often seen with

P0600 Serial Communication Link Malfunction · **P0601** Internal Control Module Memory Checksum Error · **P0602** Control Module Programming Error · **P0606** PCM Processor Fault · **U0100** Lost Communication With ECM/PCM A



See it working

Watch the animated explainer [How Misfire Detection Works: Crankshaft Speed](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p062f/>

