



P06FB

Glow Plug Control Module 2 Memory Checksum Error

P06FB means the glow plug control module number two has detected a checksum error in its own memory, so the module cannot trust the calibration or strategy data it relies on to operate the glow plugs. The engine control module sets this code after the glow plug module reports that its internal memory verification has failed.

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 or glow plug warning lamp, often with no other symptoms
- Hard cold starting or extended cranking before the engine fires
- Rough idle and white smoke from the exhaust immediately after a cold start
- Glow plug system disabled, causing poor cold-weather driveability
- In some vehicles, a reduced-power or limp-home message on the dashboard

Common causes, most likely first

- 1 Internal memory corruption or failure inside the glow plug control module 2
- 2 Low or unstable battery voltage during module power-up, corrupting the checksum
- 3 Poor ground or corroded power feed to the glow plug control module 2
- 4 Water intrusion or connector corrosion at the module causing intermittent communication
- 5 A failed software flash or interrupted programming event on the module
- 6 Wiring harness damage between the engine control module and glow plug control module 2

How to diagnose and fix it

- 1 Scan all modules and record freeze-frame data and any companion codes before clearing anything
- 2 Test battery condition and charging voltage, then check the module's power and ground circuits for voltage drop
- 3 Inspect the glow plug control module 2 connector and harness for corrosion, water intrusion, and chafing
- 4 Verify communication between the engine control module and glow plug control module 2 with a scan tool
- 5 Check for and apply any available module software update or recalibration from the manufacturer
- 6 If voltage, grounds, and software are correct, replace the glow plug control module 2 and clear the code
- 7 After repair, run a cold-start glow plug self-test and confirm the code does not return over several drive cycles



Why a checksum code is rarely the glow plugs

- A checksum error points to the module's internal memory integrity, so replacing glow plugs themselves will not fix this code and is a common wasted repair.
- A weak battery that still starts the engine can drop voltage far enough during cranking to corrupt the module's memory check, so always load-test the battery first.
- Corroded grounds at the module are a frequent hidden cause because they create voltage spikes that the module interprets as memory faults.
- This code can be stored intermittently after a failed or interrupted reprogramming event, and a successful reflash may clear it without parts replacement.
- On some platforms the glow plug control module 2 is a slave module, and a communication fault elsewhere in the network can cause a false checksum report.

Can I keep driving with P06FB?

The vehicle will usually start and run, but cold starting and cold-weather driveability are compromised and the glow plug system may be disabled. Avoid repeated cold starts and long cranking until the fault is diagnosed, and do not replace glow plugs before checking module power, grounds, and software.

Tools that help

- OBD-II scan tool with module-level communication and freeze-frame capability
- Digital multimeter for voltage drop and ground testing
- Battery load tester or conductance tester
- Manufacturer-level diagnostic software for module reprogramming
- Wiring diagram and connector pinout for the glow plug control module circuit

Reading P06FB

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.
FB	The exact fault within that area.

Often seen with

P0380 Glow Plug/Heater Circuit A Malfunction · **P0670** Glow Plug Module Control Circuit · **P06FA** Glow Plug Control Module 2 Performance · **P06FC** Glow Plug Control Module 2 to PCM Communication Circuit · **P06FD** Glow Plug Control Module 2 to PCM Communication Circuit Rang



See it working

Watch the animated explainer [How a Gyroscope Works: Gimbals and Precession](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p06fb/>

