

MERCEDES-BENZ · POWERTRAIN

P1482

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1482 · Mercedes-Benz

Preglow Control Module N142

P1482 on Mercedes-Benz vehicles indicates that the engine control module has detected a fault within the preglow control module, designated N142, which manages the glow plugs used to warm the combustion chambers in diesel engines. The code is stored when the control module reports an internal error, a communication failure, or a circuit problem that prevents proper glow plug operation.

SYSTEM

Powertrain

CODE TYPE

**Mercedes-Benz
specific**

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

**Auxiliary emission
controls**

Symptoms you may notice

- Illuminated check engine light or preglow indicator lamp on the dashboard
- Hard starting or extended cranking when the engine is cold
- Rough idle and white smoke from the exhaust immediately after a cold start
- Reduced engine performance and poor fuel economy during warm-up
- Often no symptoms besides the warning light, especially in mild weather

Common causes, most likely first

- 1 Faulty preglow control module N142 due to internal electronics failure
- 2 Corroded, loose, or damaged wiring and connectors at the preglow control module
- 3 Blown fuse or poor power/ground connection supplying the preglow control module
- 4 One or more glow plugs with excessive resistance drawing abnormal current
- 5 Controller area network (CAN) communication fault between the engine control module and the preglow control module
- 6 Moisture intrusion into the preglow control module or its connectors causing short circuits



How to diagnose and fix it

- 1 Read all stored codes and freeze-frame data with a Mercedes-Benz-compatible scan tool to confirm P1482 and check for related glow plug codes
- 2 Inspect the preglow control module fuse and verify battery voltage at the module's power and ground terminals
- 3 Visually inspect the wiring harness and connectors at the preglow control module for corrosion, chafing, or loose pins
- 4 Measure the resistance of each glow plug and compare to specifications to rule out a failed plug overloading the module
- 5 Check CAN communication integrity between the engine control module and preglow control module using a scan tool's live data
- 6 If all external circuits test good, replace the preglow control module N142 and clear the fault memory
- 7 After repair, perform a cold-start test and verify the preglow indicator lamp operates correctly and no codes return

Before you replace the preglow control module

- A single shorted glow plug can damage the preglow control module, so always test the plugs before installing a new module to avoid repeat failure.
- The preglow control module often logs P1482 when battery voltage drops during cranking, so a weak battery or poor ground can mimic a module failure.
- On some Mercedes-Benz diesel engines, the preglow control module is integrated into the glow plug relay unit and may require programming or coding after replacement.
- P1482 can be set by a communication fault on the CAN bus, so inspect the wiring between the engine control module and preglow control module before condemning the module.
- In warm climates, a failed preglow system may cause no noticeable driveability symptoms, leading owners to ignore the code until cold weather reveals hard starting.

Can I keep driving with P1482?

You can usually drive the vehicle with P1482 stored, but cold starting may be difficult and prolonged cranking can wear the starter and battery. Avoid heavy loads and long idling until the fault is repaired, and address the code before winter temperatures make starting unreliable.

Tools that help

- Mercedes-Benz-compatible OBD-II scan tool
- Digital multimeter
- Glow plug resistance tester
- Socket and ratchet set
- Wiring diagram for the preglow circuit



Reading P1482

- P** Powertrain: engine, transmission and emissions.
- 1** Manufacturer-specific code (Mercedes-Benz): its meaning depends on the make.
- 4** Auxiliary emission controls.
- 82** The exact fault within that area.

Often seen with

P0380 Glow Plug/Heater Circuit A Malfunction · **P0670** Glow Plug Module Control Circuit · **P0671** Cylinder 1 Glow Plug Circuit · **P0672** Cylinder 2 Glow Plug Circuit · **P0673** Cylinder 3 Glow Plug Circuit

See it working

Watch the animated explainer [How a Wideband Air-Fuel Sensor Works](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/mercedes-benz-p1482/>

