

223 S580 with M176 - CEL ON - P061197 the control unit fuel injector has a malfunction output stage fault of control unit is restricted

Topic number	LI07.61-P-080241
Version	1
Function group	07.61 - ME fuel injection/ ignition system
Date	2/3/26
Validity	Model series 223 equipped with M176 engine
Reason for change	

Complaint

CEL ON with DTC P061197 "the control unit fuel injector has a malfunction output stage fault of control unit is restricted" active and stored in the ME (N3/10). There are no drivability concerns related to the complaint.

Cause

ME (N3/10) software

Remedy

Perform the following checks:

- Clean the ground points of N3/10 and the ignition coils (W11/3 and W25)
- Check the plugs of the ECU and the wiring to all 8 injectors
- Perform a smoke test for the intake and exhaust system
- Check the catalyts via borescope
- Perform the guided tests in XENTRY for the 4 lambda sensors
- If the above checks are OK then swap injectors 1 and 6. Then code them into their new positions in the ME. Clear the codes and QC after.

If the complaint is no longer present after the above steps the car can be released to the customer.

Optimized software is in development and expected to be released via XENTRY at the end of Q1 2026

Disclaimer

NOTE: The information contained in this document is intended for use by trained, professional technicians with the knowledge to properly and safely perform diagnosis and repairs on Mercedes-Benz vehicles, using Mercedes-Benz approved tools and equipment. It informs service technicians about conditions that could occur in certain vehicles and provides information that could assist in proper vehicle diagnosis, service, or repair. It does not indicate that a defect is present in any vehicle referenced in this document nor does it imply warranty coverage. DO NOT assume that a symptom or condition, or a described cause of a symptom or condition, affects any particular vehicle or groups of vehicles, or that a described repair applies to any particular vehicle or groups of vehicles. There can be multiple causes resulting in the same or similar symptoms or conditions described in this document, and trained professional service

XENTRY Tips

technicians must use their diagnostic skills to make evaluations on a case-by-case basis. The information contained in this document does not guarantee warranty coverage nor does it extend the vehicle's warranty in any way.

Symptoms
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit
Power generation > Engine management > Function > Malfunction

Control unit/fault code	
Control unit	Fault text
N3/10 - Motor electronics 'MRG1AMGV8' for combustion engine 'M177' (ME) (MRG1AMGV8)	P061197 - The control unit 'fuel injector' has a malfunction (output stage fault of control unit 'combustion engine'). The system function is restricted.

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note