

MY19-24 463 G63 with M177LS2 - CEL for Misfire

Topic number	LI07.61-P-076755
Version	3
Function group	07.61 - ME fuel injection/ ignition system
Date	1/17/25
Validity	Model Year 2019 and up 463 G63 with M177LS2 Engine
Reason for change	Title change

Complaint

Customer complains that CEL is active in instrument cluster. May also report rough running.

Cause

Software

Remedy

Please update the ME control unit software to the latest version.

Ensure that a sensor rotor adaptation is conducted afterwards per the instructions in Xentry.

Perform an AMG engine adaptation after the update and the sensor rotor adaptation.

Assess the vehicle afterwards and if the complaint is remedied, release the vehicle.

If the customer complaint is not remedied, process the vehicle via LI07.61-P-070707 and open a TIPS case with your findings.

If the vehicle is already at the latest ME software level or if software is not available, process the vehicle via LI07.61-P-070707 and open a TIPS case with your findings.

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 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 > Engine running > Runs rough/shakes
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit
Power generation > Engine management > Indicator lamp > Electronic diesel control > lit
Power generation > Engine management > Engine performance > No/poor output
Power generation > Engine management > Function > Malfunction

Control unit/fault code	
Control unit	Fault text
N3/10 - Motor electronics 'MED1775' for combustion engine 'M176/M177' (ME) (MED1775)	<p>P030885 - Combustion misfiring of cylinder 8 has been detected. There is a signal above the permissible limit value.</p> <p>P030800 - Combustion misfiring of cylinder 8 has been detected. _</p> <p>P030785 - Combustion misfiring of cylinder 7 has been detected. There is a signal above the permissible limit value.</p> <p>P030700 - Combustion misfiring of cylinder 7 has been detected. _</p> <p>P030685 - Combustion misfiring of cylinder 6 has been detected. There is a signal above the permissible limit value.</p> <p>P030600 - Combustion misfiring of cylinder 6 has been detected. _</p> <p>P030585 - Combustion misfiring of cylinder 5 has been detected. There is a signal above the permissible limit value.</p> <p>P030500 - Combustion misfiring of cylinder 5 has been detected. _</p> <p>P030485 - Combustion misfiring of cylinder 4 has been detected. There is a signal above the permissible limit value.</p> <p>P030400 - Combustion misfiring of cylinder 4 has been detected. _</p> <p>P030385 - Combustion misfiring of cylinder 3 has been detected. There is a signal above the permissible limit value.</p> <p>P030300 - Combustion misfiring of cylinder 3 has been detected. _</p> <p>P030285 - Combustion misfiring of cylinder 2 has been detected. There is a signal above the permissible limit value.</p> <p>P030200 - Combustion misfiring of cylinder 2 has been detected. _</p>

XENTRY Tips

	<p>P030185 - Combustion misfiring of cylinder 1 has been detected. There is a signal above the permissible limit value.</p> <p>P030100 - Combustion misfiring of cylinder 1 has been detected. _</p> <p>P030027 - Combustion misfiring has been detected. The signal change rate is above the permissible limit value.</p> <p>P030022 - Combustion misfiring has been detected. The signal amplitude is greater than the maximum amplitude.</p>
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Operation numbers/damage codes

Op. no.	Operation text	Time	Damage code	Note