

M17x.xxx Check Engine Light on with Misfire DTC's

Topic number	LI07.61-P-070707
Version	15
Function group	07.61 - ME fuel injection/ ignition system
Date	1/17/25
Validity	AMG M17x.xxx Engine Group
Reason for change	G wagon SW update

Complaint

The customer complains of a check engine light (CEL) on. May also complain of the engine running roughly and/or a loss of power.

Cause

Multiple Causes

Remedy

Please see the document "Remedy Instructions" in attachments.

For MY19-24 G63 there may be an alternate solution available, please reference LI07.61-P-076755 before performing the steps in this LI for MY19-24 G63 vehicles.

Attachments	
File	Description
BR253_ground_points.pdf	253 Ground Points
C_Class Ground Points LS1.pdf	205 Ground Points
facelift 463 ground check.pdf	463 Ground Points
Ground points LS2_BR213_englx.pdf	213 Ground Points
GT Ground Check.pdf	190 Ground Points
Ground Points LS2_BR222 (002).pdf	222 Ground Points
Massestellen LS2_BR290_engl.pdf	290 Ground Points
Fault Counter Instructions.pdf	Fault Counter Instructions
Smoke Check.pdf	
Misfire LI Revision v5.pdf	

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 > Engine performance > No/poor output						
Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A1779060206			Ignition Coil	8		X
Control unit/fault code						
Control unit			Fault text			
N3/10 - Motor electronics 'MRG1AMGV8' for combustion engine 'M177' (ME) (MRG1AMGV8)			P031600 - Combustion misfires were detected at engine start. _			
			P030800 - Combustion misfiring of cylinder 8 has been detected. _			
			P030700 - Combustion misfiring of cylinder 7 has been detected. _			
			P030600 - Combustion misfiring of cylinder 6 has been detected. _			
			P030500 - Combustion misfiring of cylinder 5 has been detected. _			
			P030400 - Combustion misfiring of cylinder 4 has been detected. _			
			P030300 - Combustion misfiring of cylinder 3 has been detected. _			
			P030200 - Combustion misfiring of cylinder 2 has been detected. _			
			P030100 - Combustion misfiring of cylinder 1 has been detected. _			
			P030022 - Combustion misfiring has been detected. The signal amplitude is greater than the maximum amplitude.			
P030021 - Combustion misfiring has been detected. The signal amplitude is less than the minimum amplitude.						
P030000 - Combustion misfiring has been detected. _						
N3/10 - Motor electronics 'MED1775' for combustion engine 'M176/M177/M178' (ME) (MED1775)			P036300 - Injector shutoff was activated due to a combustion misfire. _			
			P030885 - Combustion misfiring of cylinder 8 has been detected. There is a signal above the permissible limit value.			

	<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>P030022 - Combustion misfiring has been detected. The signal amplitude is greater than the maximum amplitude.</p> <p>P030027 - Combustion misfiring has been detected. The signal change rate is above the permissible limit value.</p> <p>P030200 - Combustion misfiring of cylinder 2 has been detected. _</p> <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>
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Operation numbers/damage codes

XENTRY Tips

Op. no.	Operation text	Time	Damage code	Note
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