

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

Topic number	LI07.61-P-070707
Version	14
Function group	07.61 - ME fuel injection/ ignition system
Date	5/21/24
Validity	AMG M17x.xxx Engine Group
Reason for change	Tool 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+ G63 there may be an alternate solution available.

Please reference LI07.61-P-076755 before performing the steps in this LI.

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	

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

XENTRY Tips

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 'MED1775' for combustion engine 'M176/M177/M178' (ME) (MED1775)			<p>P036300 - Injector shutoff was activated due to a combustion misfire. _</p> <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>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>
<p>N3/10 - Motor electronics 'MRG1AMGV8' for combustion engine 'M177' (ME) (MRG1AMGV8)</p>	<p>P031600 - Combustion misfires were detected at engine start. _</p> <p>P030800 - Combustion misfiring of cylinder 8 has been detected. _</p> <p>P030700 - Combustion misfiring of cylinder 7 has been detected. _</p> <p>P030600 - Combustion misfiring of cylinder 6 has been detected. _</p> <p>P030500 - Combustion misfiring of cylinder 5 has been detected. _</p> <p>P030400 - Combustion misfiring of cylinder 4 has been detected. _</p> <p>P030300 - Combustion misfiring of cylinder 3 has been detected. _</p> <p>P030200 - Combustion misfiring of cylinder 2 has been detected. _</p> <p>P030100 - Combustion misfiring of cylinder 1 has been detected. _</p> <p>P030022 - Combustion misfiring has been detected. The signal amplitude is greater than the maximum amplitude.</p> <p>P030021 - Combustion misfiring has been detected. The signal amplitude is less than the minimum amplitude.</p> <p>P030000 - Combustion misfiring has been detected. _</p>

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