

167 GLE/GLS and 167 Maybach with M177LS2 - CEL for P218762/P218797/P218962/P218997: The mixture is too lean at idle speed (Bank 1/ Bank 2)

Topic number	LI07.61-P-072259
Version	3
Function group	07.61 - ME fuel injection/ ignition system
Date	8/5/21
Validity	All AMG 167 models with M177LS2. All Maybach 167 models with M177LS2
Reason for change	Software availability

Complaint

Customer complains that check engine light is on.

Cause

A gross increase in the vehicle's ORA (idle fuel adaptations) is observed in conjunction with a code setting and the CEL activating.

Remedy

If the vehicle has one or more of the listed codes stored in the ME, update the ME control unit via Xentry.

The table "Software by Baumuster" in the attachments provides the software numbers that should be present after the update.

Upon completing the update please perform the following:

- Clear the mixture adaptations in the ME control unit
- Perform an AMG engine adaptation drive per the AMG User's Guide (provided in the attachments)
- Afterwards drive the vehicle normally in "C" mode with ECO disabled for a distance of ~35 miles
- Check the injector performance data.
- You may release the vehicle if ALL of the following conditions are met:
 - FRA and FRA2 are both below 1
 - ORA and ORA2 are both below 1.2
 - There is at least one injector per bank reporting an adaptation
- If any of the conditions are not met, drive the vehicle again in "C" mode with ECO disabled for a distance of ~35 miles
- If the data remains the same or does not improve, OR other codes appear during the follow up operations STOP and open a PTSS case
- Include the following in the case:
 - Initial quick test with fault freeze

XENTRY TIPS

- ME control unit log
- Latest Injector performance data

Attachments																																															
File	Description																																														
AMG User Guide.pdf																																															
Software by Baumuster.JPG																																															
<table border="1"> <thead> <tr> <th>Model</th> <th>Baumuster</th> <th>Hardware Part Number</th> <th>Software Part Number</th> <th>Software Part Number</th> <th>Boot Software</th> </tr> </thead> <tbody> <tr> <td>GLS63</td> <td>167.989</td> <td>177 901 6603</td> <td>177 902 16 09</td> <td>177 903 52 05</td> <td>177 904 96 00</td> </tr> <tr> <td>GLE63</td> <td>167.188</td> <td>177 901 6603</td> <td>177 902 16 09</td> <td>177 903 52 05</td> <td>177 904 96 00</td> </tr> <tr> <td>GLE63</td> <td>167.989</td> <td>177 901 6603</td> <td>177 902 16 09</td> <td>177 903 52 05</td> <td>177 904 96 00</td> </tr> <tr> <td>GLE63</td> <td>167.388</td> <td>177 901 6603</td> <td>177 902 16 09</td> <td>177 903 52 05</td> <td>177 904 96 00</td> </tr> <tr> <td>GLE63</td> <td>167.389</td> <td>177 901 6603</td> <td>177 902 16 09</td> <td>177 903 52 05</td> <td>177 904 96 00</td> </tr> <tr> <td>Maybach</td> <td>167.987</td> <td>177 901 6603</td> <td>177 902 16 09</td> <td>177 903 45 05</td> <td>177 904 96 00</td> </tr> </tbody> </table>	Model	Baumuster	Hardware Part Number	Software Part Number	Software Part Number	Boot Software	GLS63	167.989	177 901 6603	177 902 16 09	177 903 52 05	177 904 96 00	GLE63	167.188	177 901 6603	177 902 16 09	177 903 52 05	177 904 96 00	GLE63	167.989	177 901 6603	177 902 16 09	177 903 52 05	177 904 96 00	GLE63	167.388	177 901 6603	177 902 16 09	177 903 52 05	177 904 96 00	GLE63	167.389	177 901 6603	177 902 16 09	177 903 52 05	177 904 96 00	Maybach	167.987	177 901 6603	177 902 16 09	177 903 45 05	177 904 96 00					
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Symptoms
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit

Control unit/fault code	
Control unit	Fault text
N3/10 - Motor electronics 'MED1775' for combustion engine 'M176/M177/M178' (ME)	<p>P218997 - The mixture (cylinder bank 2) at idle is too lean. The system function is restricted.</p> <p>P218797 - The mixture (cylinder bank 1) is too lean at idle speed. The system function is restricted.</p>
N3/10 - Motor electronics 'MED1775' for combustion engine 'M176/M177/M178' (ME)	<p>P218962 - The mixture (cylinder bank 2) at idle is too lean. The signal comparison is faulty.</p> <p>P218762 - The mixture (cylinder bank 1) is too lean at idle speed. The signal comparison is faulty.</p>

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