

Unsuccessful SMOG Test due to Water Pump Diagnostics in CDI Control Module (CR43) preventing Readiness Monitor to set

Topic number	LI07.16-N-075574
Version	2
Function group	07.16 - Diesel injection system common rail
Date	12/2/22
Validity	Model Year 2014 - 2016 Mercedes-Benz and Freightliner Sprinter with OM651 Diesel Engine
Reason for change	Details added to check VMI for Open status of Approved Emission Modification (AEM) or Service Campaign 2022110005 and perform applicable campaign.

Complaint

SMOG Test will not complete successfully.

NOTE: Customers may come to dealership as instructed by ISP (Independent Service Provider) based on a TSB (Technical Service Bulletin). The Mercedes-Benz and Freightliner TSBs are attached to this LI or can be accessed via the OBD Clearinghouse at <https://www.obdclearinghouse.com/>.

Attachments	
File	Description
TSB_FTL Sprinter_Water Pump Diagnostic – Short Circuit to Battery – Fault P2603 healing in generic scan tool Mode\$0A.pdf	TSB as seen in OBD Clearinghouse
TSB_MB Sprinter_Water Pump Diagnostic – Short Circuit to Battery – Fault P2603 healing in generic scan tool Mode\$0A.pdf	TSB as seen in OBD Clearinghouse

Cause

In the event the Engine Control Module (CDI) detects a fault with the Water Pump Short Circuit to Battery diagnostic, Fault Code P260312 and/or P260315 may set and prevent the readiness monitor from running. Even following a successful repair and/or clearing the Fault Code(s), the readiness monitor remains deactivated and self-healing is not possible. This deactivation may prevent the vehicle from passing state emissions inspection and SMOG Test and is only resolvable by installing new engine control unit software.

Remedy

1. Perform XENTRY Quick Test.
2. Check for the presence of Fault Code P260312 and/or P260315 in the CDI control module.
3. If relevant Fault Codes are present, resolve fault using standard dealer procedures. Once fault is resolved, proceed to step 5.
4. If no relevant Fault Codes are present, or the fault has been previously repaired and Fault Codes erased, proceed to step 5.

XENTRY TIPS

5. Check if AEM campaign shows Open status for vehicle in VMI. If VMI shows Open AEM campaign, proceed to install AEM upon customer approval. New CDI Control Module (CR43) Software will be installed during AEM.
6. If AEM has already been completed on vehicle, proceed to check if Service Campaign 2022110005 shows Open status for vehicle in VMI. If VMI shows Open Service Campaign, proceed to perform campaign. New CDI Control Module (CR43) Software will be installed during Service Campaign.

A6519039879 is the new CDI Control Module (CR43) software number.

Symptoms
Power generation > Engine cooling system > Indicator lamp > Illuminates yellow
Power generation > Engine management > Indicator lamp > Engine diagnosis > lit

Control unit/fault code	
Control unit	Fault text
N3/33 - Motor electronics 'CDI43' for combustion engine 'OM651' (CDI) (CR43)	P260315 - Component 'Switchable coolant pump' has a short circuit to positive. P260312 - Component 'Switchable coolant pump' has a short circuit to positive.

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