167, 290, and 463 with M177.98 - CEL ON - DTCs P152B00, P152C00, and/or P227900 A leak was detected in the intake air system (cylinder back 1/2)

Topic number	LI09.00-P-081076
Version	1
Function group	09.00 - General
Date	10/27/26
Validity	Model series 167, 290, and 463 with M177.98
Reason for change	

Complaint

Customers may notice a check engine light in the instrument cluster and may also complain of rough running.

One or more of the following DTCs may be stored in the ME control unit (N3/10):

P227900 - A leak was detected in the intake air system

P152B00 - A leak was detected in the intake air system (cylinder bank 1)

P152C00 - A leak was detected in the intake air system (cylinder bank 2)

Cause

Root cause varies

Remedy

Check the intake and the evaporative emissions system for leak tightness. Should you identify any leaks, repair them, clear the DTC(s) and test drive the vehicle.

If the codes do not return, release the vehicle back to the customer. If the codes do return, then perform the tests located in the attached PDF titled "air leak work instructions". Then, open a TIPS case with the following information:

- Initial quick test
- ME control unit log

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- Detailed results (including XENTRY print outs) of the tests performed in the "air leak work instructions"

Attachments

File	Description
Air Leak Work Instructions.pdf	Work instructions for identifying source of unmetered air

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

Control unit/fault code

Control unit	Fault text
N3/10 - Motor electronics 'MED1775' for combustion engine 'M176/M177' (ME) / (MED1775)	**P227900** - A leak was detected in the intake air system. _ **P152C00** - A leak was detected in the intake air system (cylinder bank 2). _ **P152B00** - A leak was detected in the intake air system (cylinder bank 1). _

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