

Check engine light with fault code P300E55 with H12

Topic number	LI14.20-N-079253
Version	3
Function group	14.20 - Exhaust gas recirculation
Date	6/16/25
Validity	VS30 with code H12 und HVAC SW object number: A907 902 14 06 A907 902 45 07 A447 902 35 16
Reason for change	Software release added to LI

Complaint

The check engine light is activated, accompanied by the following fault code related to the Exhaust gas recirculation cooler (low pressure):

- P300E55 The efficiency of component 'Exhaust gas recirculation cooler (low pressure)' is not sufficient.

Cause

The issue is attributed to an error in the coding of the climate control unit software (HVAC177).

Remedy

Software Update Instructions

Please proceed as follows for the different variants:

- VS30 with code H12 -Z0G:

Perform SCN coding of HVAC177 (N10*1 - Signal acquisition and actuation module - Automatic climate control (SAM)).

- VS30 with code H12 +Z0G:

Update BCMFA2 (N10 - Signal acquisition and actuation module (SAM)), and perform SCN coding of both BCMFA2 (N10) and HVAC177 (N10*1 - Signal acquisition and actuation module - Automatic climate control (SAM)).

Production Clean Points

The following manufacturing plants have implemented the updated coding on the specified dates:

- 09/20/2024: VS30 – Plant W065, Düsseldorf

- 10/09/2024: VS30 – Plant W037, Ludwigsfelde & Plant W155, Buenos Aires
- 10/31/2024: VS30 – Plant W566, Charleston

Additional Notes

If the vehicle was produced after the respective plant clean point or the software has been updated, and the fault code P300E55 with H12 returns, please open a TIPS case and direct it to the Powertrain inbox, referencing this LI.

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 > Indicator lamp > Engine diagnosis > lit				
Control unit/fault code				
Control unit			Fault text	
N3/40 - Motor electronics 'MRD1' for combustion engine 'OM654' (CDI) (MRD1NFZ)			P300E55 - The efficiency of component 'Exhaust gas re-circulation cooler (low pressure)' is not sufficient.	
Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note