

M274 Check engine light, P052E71 Crankcase ventilation valve

Topic number	LI01.20-P-076894
Version	5
Function group	01.20 - Crankcase ventilation, cylinder head cover
Date	7/8/24
Validity	Passenger car with engine M274
Reason for change	Updated remedy

Complaint

Check engine light illuminated

Fault code stored in N3/10 control unit- P052E71 – Positive Crankcase Ventilation Regulator Valve Performance: The valve for crankcase ventilation has a malfunction

Cause

The partial-load ventilation valve (a part of the intake line assembly) may not work as intended.

Remedy

Model year 2018 C300 | Model year 2016-2018 GLC300 and E300 | ALL model year SLK/SLC300 and hybrid variants

Performed guided test for fault code P052E71. Replace intake line assembly if necessary per results of the guided test. This LI will be updated once the software solution is available for model year 2018 C300 and 2016-2018 GLC300 and E300 vehicles.

Model year 2015-2017 C300 | Model year 2019 GLC300 and E300

Perform software update for N3/10 Engine control unit. Replacement of intake line assembly is not required.

New software part numbers:

2015-2017 C300- 2749021202 2749031506

2019 E300- 2749020702 2749031206

2019 GLC300- 2749020802 2749031306

This LI is in relation to NCU dated 8/31/2023 "Emission Extended Warranty – Intake Line Assembly".

WIS-References		
Document number	Title	Note

AR01.20-P-9692MRU	Remove/install oil separator on crank-case	
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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 > Exhaust system > Function > Fumes/blue smoke
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

Parts						
Part number	ES1	ES2	Designation	Quantity	Note	EPC
A274090560080			Intake line assembly	1	inclusive of oil separator, partial load ventilation valve and full-load ventilation valve	X

Control unit/fault code	
Control unit	Fault text
N3/10 - Motor electronics 'MED40' for combustion engine 'M274' (ME) (MED40)	P052E71 - The valve for crankcase ventilation has a malfunction. The actuator is blocked.

Operation numbers/damage codes				
Op. no.	Operation text	Time	Damage code	Note
	Solenoid valve, crankcase ventilation system		0101D	Damage code