

Check engine light illuminated - Fault code current P04DB29, P04DB31, P04DB79 The crankcase ventilation system is interrupted.

Topic number	LI01.20-P-078446
Version	1
Function group	01.20 - Crankcase ventilation, cylinder head cover
Date	10/3/24
Validity	Passenger car with engines M270, M274, M260, or M264
Reason for change	

Complaint

Check engine light on. One of the below fault codes is current in the engine control module (N3/10).

P04DB29, P04DB31, P04DB79

Cause

Open circuit or high resistance to crankcase vent line contact

Remedy

1. Check the electrical connector for the relevant vent line contact switch noted below. Refer to attached photos of connection locations.
2. Ensure the bolted connection is secure and bolt can be torqued (9Nm).
3. Check continuity from vent line connection to ME control unit. Repair wire if damage is found.
 - The circuit from ME provides 5V and is pulled to 0V when the ground connection is intact.

M260

P04DB31- S88/15

P04DB79- S88/16

M264

P04DB31- S88/15

P04DB79- S88/16

P04DB29- S88/17

M270/M274

P04DB79- S88/5

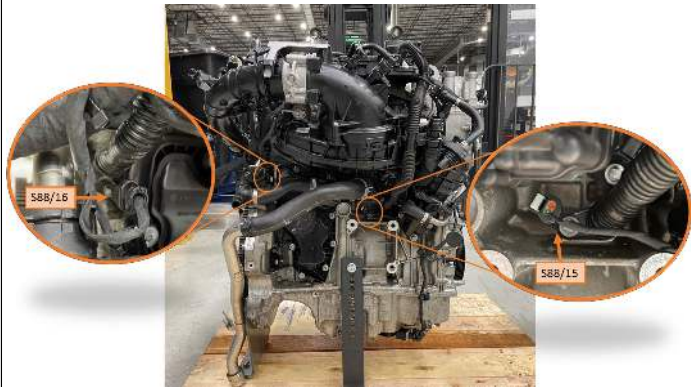
Note: This repair is not warrantable if the connection was left loose during previous repair/maintenance.

Attachments	
File	Description
M270 S88_5.png	M270 S88/5 Location



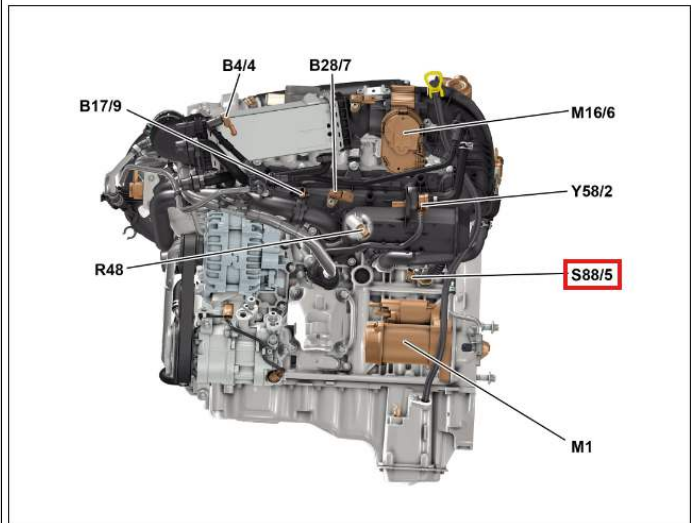
M260 S88_15 S88_16.png

M260 S88/15 and S88/16 Locations

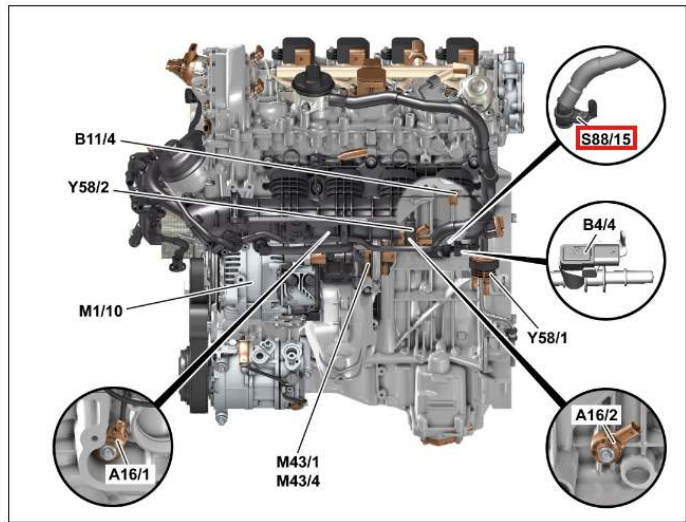


M274 S88_5.png

M274 S88/5 Location

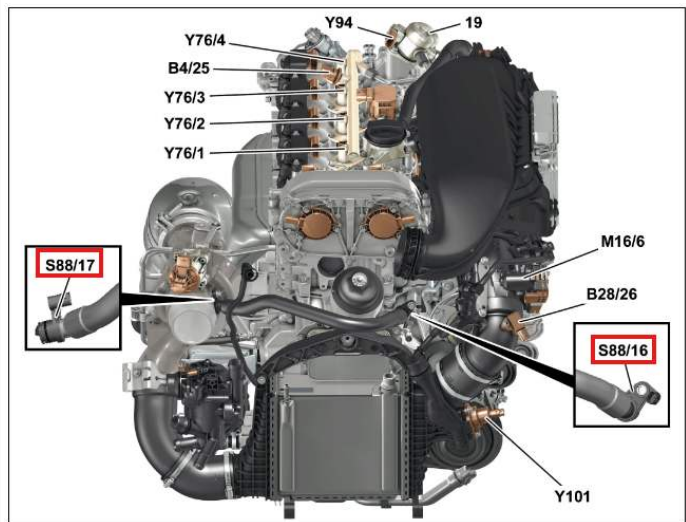


M264 S88_15.png



M264 S88/15 Location

M264 S88_16 S88_17.png



M264 S88/16 and S88/17 Locations

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
N3/10 - Motor electronics 'MED40' for combustion engine 'M274' (ME) (MED40)	P04DB79 - The crankcase ventilation system is interrupted. The mechanical connection has failed.
N3/10 - Motor electronics 'MED41' for combustion engine 'M260/M264' (ME) (MED41)	P04DB79 - The crankcase ventilation system is interrupted. The mechanical connection has failed. P04DB29 - The crankcase ventilation system is interrupted. There is an invalid signal. P04DB31 - The crankcase ventilation system is interrupted. The signal is not present.

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