

E3.I/G2 V8 – Oil/Air Separator Membrane Failure

Vehicles Affected

| Models | Model Year | Model Type | VIN Range | Vehicle-Specific Equipment |
|----------|------------|------------|-----------|----------------------------|
| Cayenne | As of 2019 | 9YA, 9YB | n/a | V8 bi-Turbo engine |
| Panamera | As of 2017 | 971 | n/a | V8 bi-Turbo engine |

Revision History

| Revision | Release Date | Changes |
|----------|--------------------|------------------------------------|
| 0 | February 27, 2023 | Original document |
| 1 | September 30, 2024 | Update of PartID from 1750 to 1052 |

Condition

E3 Cayenne and G2 Panamera customers report a rough running engine, whistling noise, and/or check engine light displayed in the instrument cluster. It is found that the diaphragm in the oil breather line (crankcase vent tube) or the tube itself from either bank 1 or bank 2 can be cracked, causing this failure in the present V8 bi-Turbo engines.

Related Faults:

NOTE: Fault combination and sub-fault information may vary depending on engine type and DME software version.

Area of Occurrence (DME)

- P227900 - Leak behind throttle valve, bank 1
- P0300(X)00 - Random/Multiple Cylinder, Misfire Detected

Other area of Occurrence (Instrument Cluster)

- P162400 - Engine control indicator light switched on
- B19A8F0 - Display of reduced engine output, active
- B19CAFO - Display of start-stop failure, active
- B19ACFO - Display of fault in engine controller, active

Technical Background

The aforementioned condition can result from fatigue. An example of this issue is shown in Figure 1.

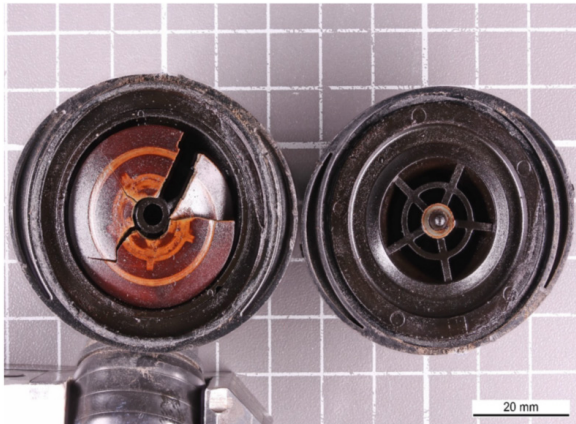


Figure 1:
Check-valve in Oil-Air breather line showing diaphragm failure

Service Information

If the vehicle falls under the previously stated conditions, then please replace **only** the breather lines shown below in Figure 2 as "5" and "10" containing this diaphragm in the check-valve assembly, first. If related issues or fault codes persist after a test drive with the new breather lines installed, check the oil air separator for damage. Please perform these replacements in accordance with the respective workshop instructions.

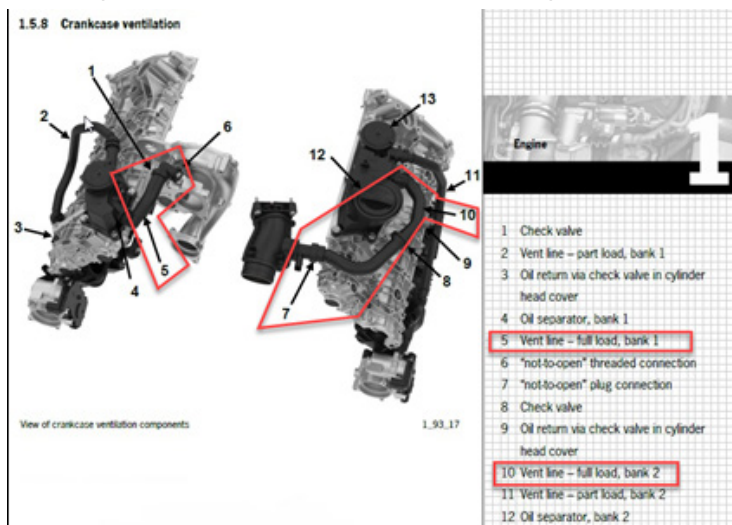


Figure 2:
V8 (E3.I & G2) Crankcase Ventilation

Warranty

As always, please document the repair completely in PCSS.

For this repair, please code the "cause" as follows:

Cause location: 10520 Crankcase ventilation hose

Cause symptom: 1521 Crack/Crack

Search Items

Crankcase ventilation hose, oil/air separator, breather line, cracked valve, Cayenne E3 Turbo, P227900, P030000, G2 Panamera Turbo

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