Advanced Technical Information

Bulletin #: 2009.2 Part ID: 2473

Downstream Oxygen Sensor Error(s) - "Slow Response - Rich to Lean"

Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
Cayenne	2020	9YABB1, 9YBBB1	N/A	N/A

Revision History

Revision	Release Date	Changes
0	June 4, 2020	Original document
1	August 18, 2020	Update of Technical Background, Service Information and Warranty
2	June 30, 2021	Update of Technical Background, Service Information and Warranty

Condition

Downstream oxygen sensor errors P013B00 (005C35, Bank 1) and P013D00 (005C3B, Bank 2) - 'Slow Response – Rich to Lean' of the 2.9 liter bi-turbo V6 engine for the Cayenne S and Cayenne S Coupé occurring under the following operating conditions:

- Low engine speed (1200 1500 rpm)
- Calculated engine load at approximately one-third (25 35%)
- Engine temperature approaching or at operating temperature (50 100°C)
- Low vehicle mileage (0 500 miles)

Technical Background

An altered diagnostic sensitivity occurring under specific engine operating conditions, as described above, can cause the aforementioned faults to set the engine's malfunction indicator lamp (MIL).



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Service Information

Please record an initial Vehicle Analysis Log (Before VAL), and delete this fault(s) from the DME. Perform AutomaticProgramming and Coding to the DME control with a tester that is at least of a software version **40.300.020**(or higher) to achieve the following DME target software configuration:**Porsche Part Number:**9Y0.907.551.K**Version:**0002

Warranty

As always, please document the case completely in PQIS.

For this repair, please code the "cause" as follows:					
Cause location:	24700	"DME control unit"			
Cause symptom:	4028	"Reacts to faults"			

Use the following troubleshooting labor operation:

- 03350000 On board diagnostic (Main work) Fault memory read out
- 03350053 On board diagnostic (Composite) VAL
- 24702550 DME control unit program

Search Items

E3, oxygen (lambda) sensor, P013B00 (005C35, Bank 1), and P013D00 (005C3B, Bank 2) - 'Slow Response – Rich to Lean,' 2.9 liter bi-turbo V6, Cayenne S, Cayenne S Coupé

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