

**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

**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). This matter is under investigation for development of a countermeasure.

### Service Information

Please record a Vehicle Analysis Log (VAL), and if there are no other faults requiring attention, clear the fault memory log. Exchanging the oxygen sensors and / or the catalysts is not effective at resolving this issue. In fact, replacement of these parts can further exacerbate the issue. As new information pertinent to resolution for this issue becomes available, this information will publish as an update to this bulletin.

### Warranty

As always, please document the case completely in PQIS.

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

Cause location:	24730	"O2S behind cat. converter"
Cause symptom:	1610	"Function not as specified"

Use the following troubleshooting labor operation:

03350000	On board diagnostic (Main work) Fault memory read out
03350053	On board diagnostic (Composite) VAL

### 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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