

## Downstream Oxygen Sensor Error(s) – “Slow Response – Lean to Rich”

### 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 |
| 3        | January 4, 2024 | Update of Condition                                              |

### Condition

Downstream oxygen sensor errors **P013B00 (DTC 005C35)** - Oxygen sensor downstream of catalytic converter, bank 1 - signal too slow from lean to rich and **P013D00 (DTC 005C3B)** - Oxygen sensor downstream of catalytic converter, bank 2 - signal too slow from lean to rich 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).

### Service Information

Please record an initial Vehicle Analysis Log (Before VAL), and delete this fault(s) from the DME. Perform Automatic Programming 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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