

Macan (PA) GTS – Check Engine Warning for Lean Fuel Mixture Error(s)

Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
Macan GTS	2020-2021	95BBL1	N/A	N/A

Revision History

Revision	Release Date	Changes
0	March 5, 2021	Original document
1	January 10, 2022	Update of Model Year
2	February 21, 2022	Software Solution Revision

Condition

Active instrument cluster faults for engine control warnings (00A016) occur in the wake of DME error entries **P0174(1)00_004083(1AB)- 'Mixture formation, bank 2(1) – too lean.'** One or both of these errors are possible.

Furthermore, these faults occur commonly under the following engine and environmental conditions:

- Low RPM (≤ 2000 1/min)
- Closely approaching, or already warm engine and oil temperatures (≈ 90 °C water; > 40 °C oil)Low to mid 'calculated' engine load (20-50%)
- Vehicle Speed < 100 km/h (60 mph)
- In the majority of occurrences, the diagnostic responsible for the fault occurs at an altitude of approximately 4500 feet, corresponding to an ambient air pressure of 861 mbar.

Technical Background

The diagnostic responsible for this fault was improved, and the software containing this improvement is available in the tester.

Service Information

After recording a Vehicle Analysis Log (VAL), delete the fault memory log and drive to ensure there are no further errors. If a vehicle exhibits the diagnostic error described herein, there is no need to replace any parts at this time. Ensure that the PIWIS tester software version is at least 40.785.090. Perform an automatic programming and coding of the DME to update the software from version 0006 to 0007 on MY '20 vehicles and 0007 to 0008 on MY'21 vehicles. After performing the update, clear any fault codes and perform the necessary adaptations to calibrate the throttle position sensor, radiator flaps, and exhaust flaps before test driving the vehicle.

Warranty

As always, please document the case completely in PQIS.

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

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

Cause location:	24700	DME control unit
Cause symptom:	4028	Reacts to Faults

Search Items

95BBL1; 95B.II; P017400_004083; P017100_0041AB- 'Mixture formation, bank 2, bank 1 – too lean'; Macan PA –GTS , 2.9 liter V6 bi-turbo; fuel trim; altitude

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