

Macan III R4 – Engine Runs Rough After Refueling

Vehicles Affected

Models	Model Year	Model Type	VIN Range	Vehicle-Specific Equipment
Macan	2023	95BAU1 95BAN1	ZP8.0 09/2022 through 11/2022	N/A

Revision History

Revision	Release Date	Changes
0	March 29, 2024	Original document

Condition

The customer complains that the engine runs rough or the vehicle shakes for a short time after refueling. The condition may occur even if the fuel tank is not filled completely.

Technical Background

There is a possibility that, on 4-cylinder Macan vehicles produced between September and November 2022, debris from the production line became stuck in the tank vent valve. This may cause intermittent sticking of the tank vent valve, causing a rough running of the engine shortly after refueling.

Service Information

1. Check the production date of the VIN.
 - a. If the production date falls between 01 September 2022 and 30 November 2022, continue with Step 2.
 - b. If the production date does not fall between 01 September 2022 and 30 November 2022, please continue with other diagnosis.

2. Create a PIWIS Tester logging file of the following actual values while the vehicle is exhibiting the complaint condition.

Engine electronics (DME) → Actual values / input signals:

- Intake manifold pressure sensor, actual value
- L010_Fuel trim mean value, bank 1
- L050_Actual lambda value ah. of cat. con. bank 1
- L130_Lambda controller correction downstream of cat. conv. bank 1
- L150_Activated charcoal filter load
- L170_Tank vent. valve pulse/duty factor
- Long-term lambda mixture adaption, bank 1
- M120_Misfire counter for all ignitions
- Oxygen sensor downstream of catalytic converter, bank 1: Short term adaption of mixture formation

Please ensure that the PIWIS Tester logging file is attached to the PCSS job. Please also note the time stamp(s) in the video where the condition is present (e.g., 0:30 - 1:20).

3. Replace the tank vent valve => WM 202319 Removing and installing tank vent valve
4. Replace the carbon canister => WM 202519 Removing and installing carbon canister
 - a. **NOTE:** Please weigh the old carbon canister after removal from the vehicle. Please also weigh the new part before installing it in the vehicle. **Document both of these measurements in the PCSS job.**
 - b. If the old carbon canister weighs more than the new part, please ensure that the customer does not "top off" the vehicle after refueling automatically stops on its own. **If possible, document the customer's behavior in the PCSS job.**
5. If the complaint persists, please continue with other diagnosis.

Warranty

For documentation and warranty invoicing, enter the working position and PCSS encryption specified below in the warranty claim:

APOS	Labor operation	I No.
20231940	Tank vent remove and reinstall	
20251903	Carbon canister remove and reinstall	

PCSS encryption:

Location (FES5)	20230	Tank vent
Damage type (SA4)	1622	Does not close

Search Items

Macan, Fuel, Misfire, Shaking, Rough, Vibrating, Jerking, tank, tank vent, carbon canister

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