

Complaint – "Reduced Engine Power" Message in Instrument Cluster: Checking Ground Points (73/21)

Model Line: **Panamera (971)**

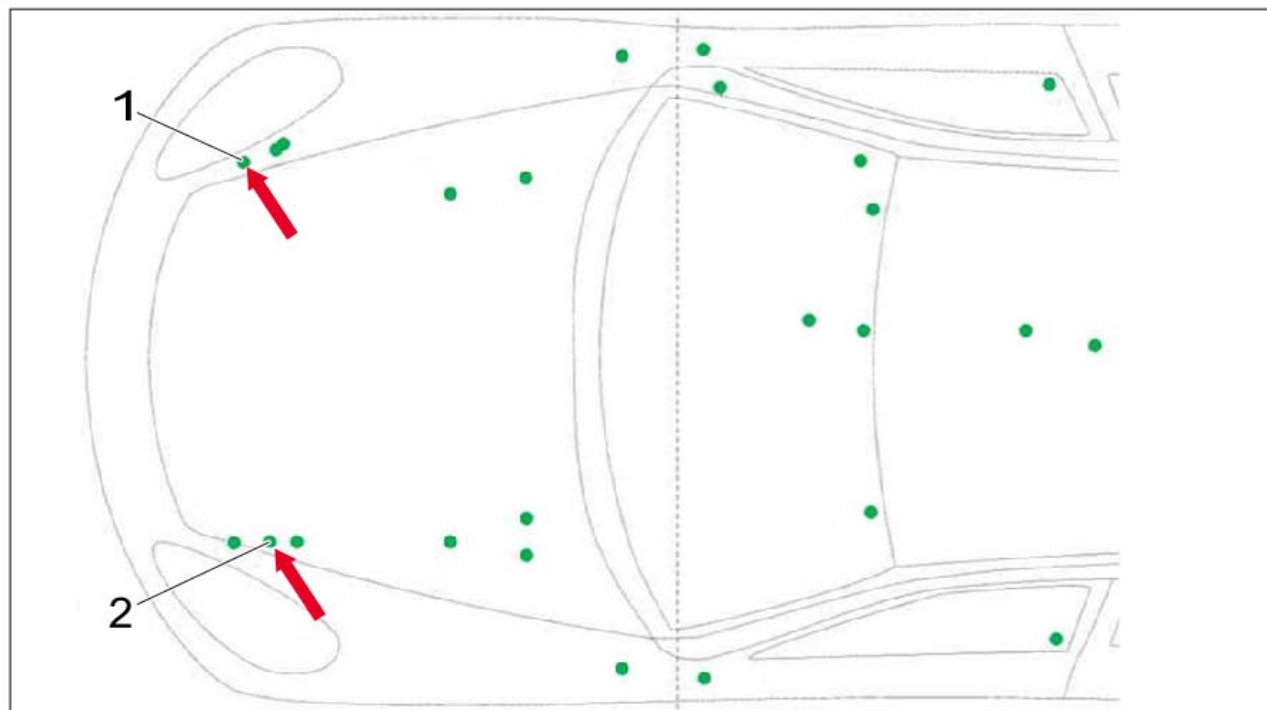
Model Year: **As of 2017 up to 2020**

Concerns: **Electric fan**

Information: The customer complains about the 'Reduced engine power' error message in the instrument cluster. The following entries may be stored in the fault memory of the DME control unit:

- P10EF00 – Radiator fan failure – function restricted (00864D)
- P191B00 – Radiator fan 1 – signal implausible (0015C3)
- U063200 – Radiator fan 1 – signal implausible (0015C2, 0015C3)

The reason for this may be insufficient contact at one or both of the affected ground points ⇒ *Overview of ground points -1 and 2-* of the electric fan.



Overview of ground points

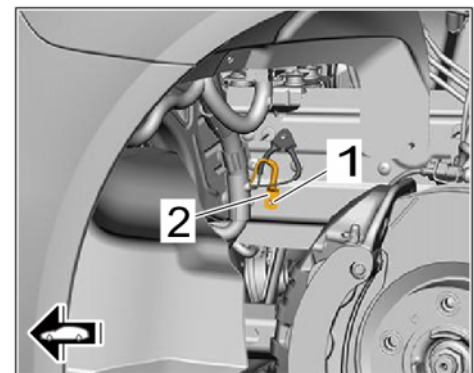
Action required: Expose ground points, check them and remove any non-metallic residues.

Preparatory work

- Work Procedure: 1 Disconnect vehicle electrical system battery.
For instructions, see:
⇒ *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*
- 2 Remove front wheel at the left and right. ⇒ *Workshop Manual '440519 Removing and installing wheel'*
- 3 Remove front part of front wheel housing liner at the left and right. ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*
- 4 Remove front air guide at the right side (behind charge-air cooler). ⇒ *Workshop Manual '211019 Removing and installing front air guide at the side (behind charge-air cooler)'*

Checking ground points

- Work Procedure: 1 Check front left ground point at the center ⇒ *Front left ground point at the centre-1-*.
- 1.1 Unscrew nut on the ground line ⇒ *Front left ground point at the centre-2-* and remove the ground line.
- 1.2 Check ground point ⇒ *Front left ground point at the centre-1-* and the ground line ⇒ *Front left ground point at the centre-2-* for oxidation, corrosion or other non-conductive dirt and clean them using suitable cleaning agent if necessary.
- 1.3 Position ground line ⇒ *Front left ground point at the centre-2-* at the ground point ⇒ *Front left ground point at the centre-1-* again.
- 1.4 Install and tighten nut on ground line ⇒ *Front left ground point at the centre-2-*.



Front left ground point at the centre

Tightening torque 9 Nm (6.5 ftlb.)

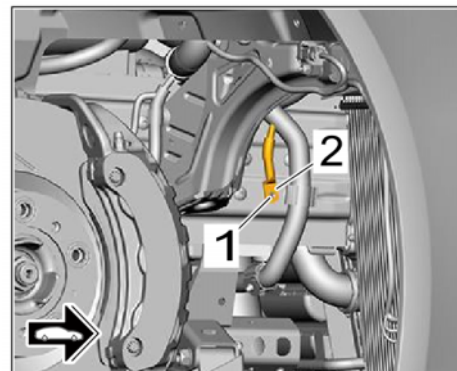
2 Check front right ground point ⇒ *Front right ground point -1-*.

2.1 Unscrew nut on the ground line ⇒ *Front right ground point -2-* and remove the ground line.

2.2 Check ground point ⇒ *Front right ground point -1-* and the ground line ⇒ *Front right ground point -2-* for oxidation, corrosion or other non-conductive dirt and clean them using suitable cleaning agent if necessary.

2.3 Position ground line ⇒ *Front right ground point -2-* at the ground point ⇒ *Front right ground point -1-* again.

2.4 Install and tighten nut on ground line ⇒ *Front right ground point -2-*.



Front right ground point

Tightening torque 9 Nm (6.5ftlb.)



Information

After the ground points have been checked and cleaned, the fault memory must be cleared and the problem must be checked again.

If the fault is still present, the check is finished and guided fault finding must be continued in the usual way.

Concluding work

- Work Procedure: 1 Install front air guide at the right side (behind charge-air cooler). ⇒ *Workshop Manual '211019 Removing and installing front air guide at the side (behind charge-air cooler)'*
- 2 Install front part of front wheel housing liner at the left and right. ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*
- 3 Install front wheel at the left and right. ⇒ *Workshop Manual '440519 Removing and installing wheel'*
- 4 Connect vehicle electrical system battery.
For instructions, see:
⇒ *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*

Invoicing

Invoicing: For documentation and warranty invoicing, enter the labor operations and PQIS coding specified below in the warranty claim:

APOS	Labor operation	I No.
19084949	Reworking electric fan	

PQIS coding:

Location (FES5)	19080	Electric fan
Damage type (SA4)	1611	does not function

- References:
- ⇒ *Workshop Manual '2X00IN Work instructions after disconnecting the battery'*
 - ⇒ *Workshop Manual '211019 Removing and installing front air guide at the side (behind charge-air cooler)'*
 - ⇒ *Workshop Manual '440519 Removing and installing wheel'*
 - ⇒ *Workshop Manual '505619 Removing and installing front wheel housing liner'*

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