

Dash panel insert

Testing signal from fuel gauge sender -G

If there is a fault concerning the fuel gauge on the dash panel insert, check whether the signal is present at the dash panel insert.

- Connect vehicle diagnostic, testing and information system VAS 5051.

=> [Electrical system, Self-diagnosis 02.99 ä; Repair group 01; Connection vehicle diagnostic, testing and information system VAS 5051](#)

- Select "Reading measured value block" (data block).
- Select Display Group 002.

If the fuel level is displayed on VAS 5051 but not on the fuel gauge, the dash panel insert is defective and should be replaced.

If the fuel level is not displayed on VAS 5051 as well, test the signal at the multi-pin connector on the dash panel insert.

- Remove dash panel insert => Page [90-2](#).
- Connect test box V.A.G 1598 to the blue 32-pin connector using adapter V.A.G 1598/25.
- Use multimeter V.A.G 1526 to measure the resistance between contacts 4 and 5 (sensor earth).

Specifications:

| Scale division | Fuel tank 80 ltr. | | Fuel tank 90 ltr. | |
|----------------|------------------------|--------------------|------------------------|--------------------|
| | Resistance ω | Contents Litres | Resistance ω | Contents Litres |
| Empty | 166 ± 7 | 0 | 166 ± 7 | 0 |
| Res. 1 1) | 154 ± 7 | 12 | 154 ± 7 | 12 |
| 1/4 | 136 ± 7 | 20 | 131 ± 7 | 22 |
| 1/2 | 94 ± 6 | 39 | 88 ± 6 | 42 |
| 1/1 2) | 21 ± 4 | 79 | 12 ± 4 | 87 |
| 1/1 3) | 19 ± 4 | 84 | 9 ± 4 | 92 |

- 1) First division of the fuel reserve zone
- 2) Needle is right on the highest scale division
- 3) Needle is above the highest scale division

- If the readings do not match the specifications, check wiring between dash panel insert and fuel gauge sender -G (front-wheel drive/quattro) or -G169 (quattro) according to current flow diagram.

=> Current flow diagrams, Electrical fault finding and Fitting locations

- If there are no open circuits or short circuits, check fuel gauge sender -G (front-wheel

drive/quattro) or -G169 (quattro).

- – Checking fuel gauge sender.

=> Fuel supply system - Petrol engines; Repair group 20; Fuel supply system - front-wheel drive/Fuel supply system four-wheel drive; Checking fuel gauge sender

- – If the readings match the specifications, the fault is in the dash panel insert; replace the dash panel insert =>Page [90-2](#).