

Checking components

Checking Lambda probe heating for Lambda probe before catalyst

Special tools, workshop equipment, testers, measuring instruments and auxiliary items required

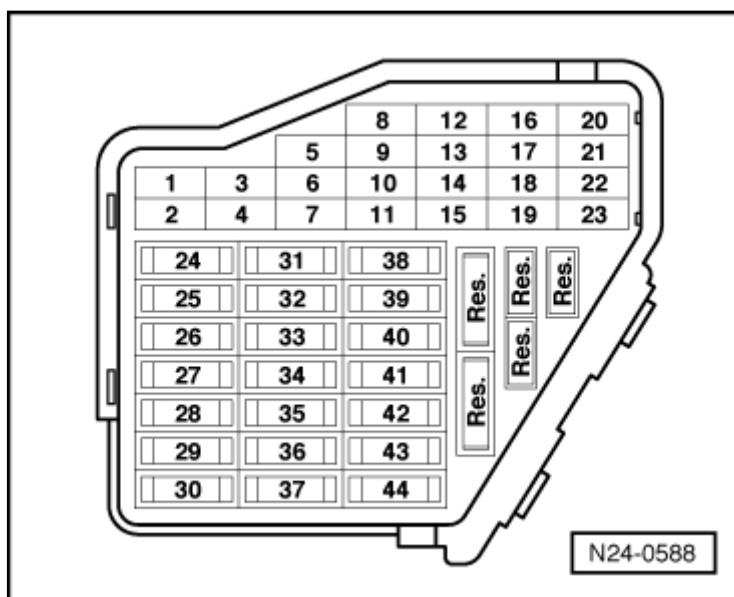
- ☐ Fault reader V.A.G 1551 or vehicle system tester V.A.G 1552 with cable V.A.G 1551/3
- ☐ Test box V.A.G 1598/31
- ☐ Hand multimeter V.A.G 1526 or multimeter V.A.G 1715
- ☐ Adapter set V.A.G 1594
- ☐ Current flow diagram

Check conditions

- → Fuse 43 must be OK.
- The battery voltage must be at least 11.5 V.
- Fuel pump relay must be OK

Test sequence

- Connect fault reader V.A.G 1551 (V.A.G 1552). Start engine and select "Address word" 01 of engine control unit. When doing this the engine must be running at idling speed.
(Connecting fault reader and selecting engine control unit => Page [01-12.](#))



→ Indicated on display:

Rapid data transfer HELP
Select function XX

- Press keys 0 and 8 for the function "Read measured value block" and confirm entry with Q key.

→ Indicated on display:

Read measured value block HELP
Input display group number XXX

- Press keys 0, 4 and 1 for "Display group number 41" and confirm entry with Q key.

→ Indicated on display:
(1...4 = Display zones)

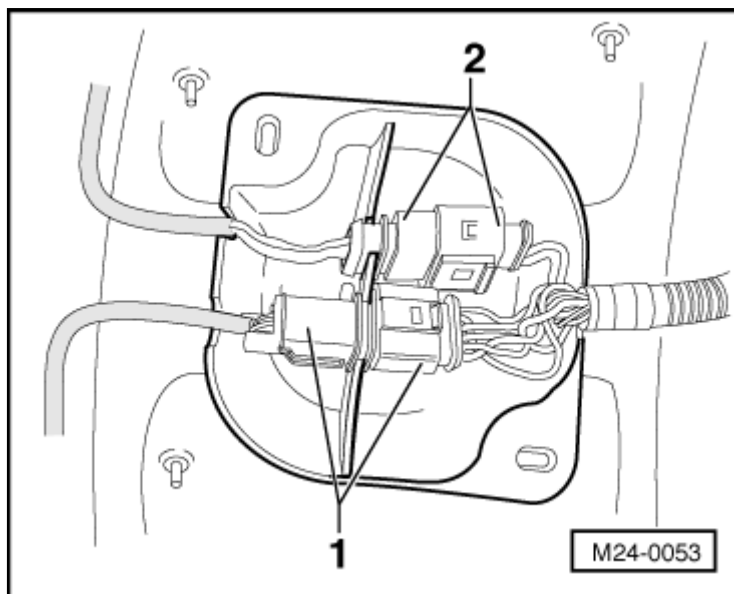
Read measured value block 41 ☐
1 2 3 4

- Check the status of the Lambda probe heating in display zone 2:
Display: Htg.bC.ON

If the specification is not obtained:

- Press ☐ key.

- Press keys 0 and 6 for the "End data transfer" function and confirm input with the Q key.
- Switch off ignition.
- → Unscrew protective cover on underbody -arrows- and disconnect 6-pin connector (black) to Lambda probe before catalyst (G39).



- → Check probe heating resistance at connector to Lambda probe -1- contacts 3 and 4
Specification: 2.5...10 Ω (at room temperature).

If the specification is not obtained:

- Replace the Lambda probe before catalyst (G39).
- Erase learnt values and adapt engine control unit => Page [24-128](#)

If the specification is obtained:

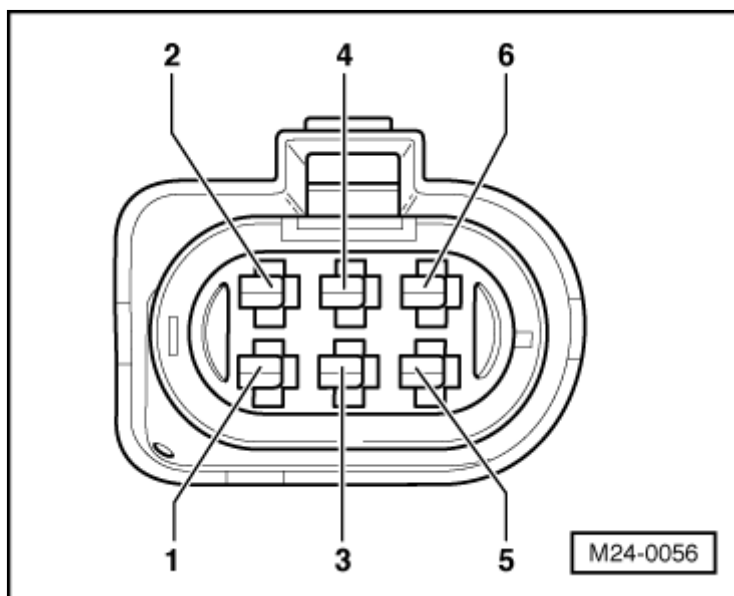
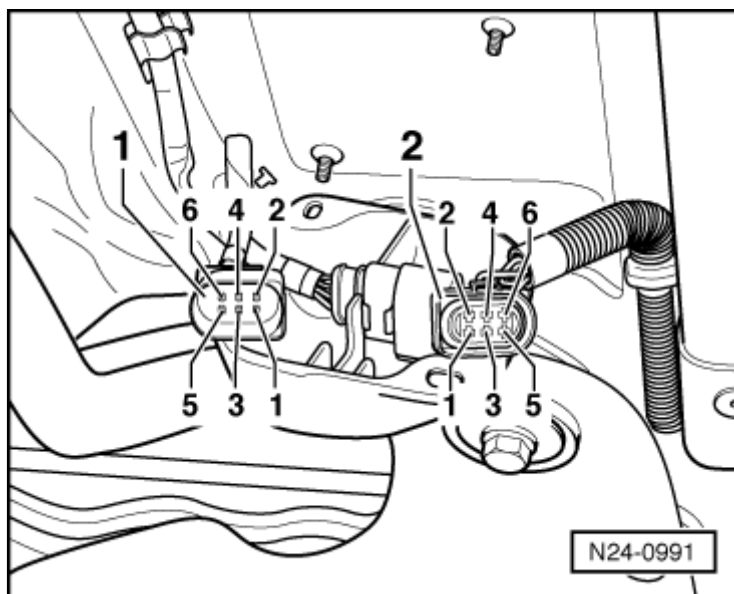
Checking voltage supply

- → Set multimeter to voltage measurement and with aux. cables from V.A.G 1594 connect it to contacts 3 and earth (connector to engine control unit).
- Start engine and run at idling speed.
- Measure voltage supply and observe display group 41, display zone 2.
Display Htg.bC.ON
Specification: 11.5...14.5 V

If the specification is not obtained:

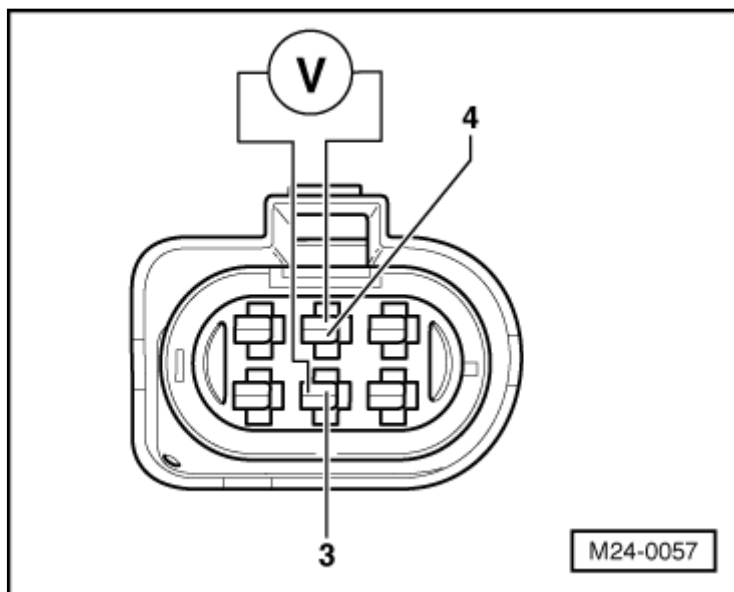
- Check wiring from contact 3 to fuel pump relay (J17) using current flow diagram.

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



If the specification is obtained:

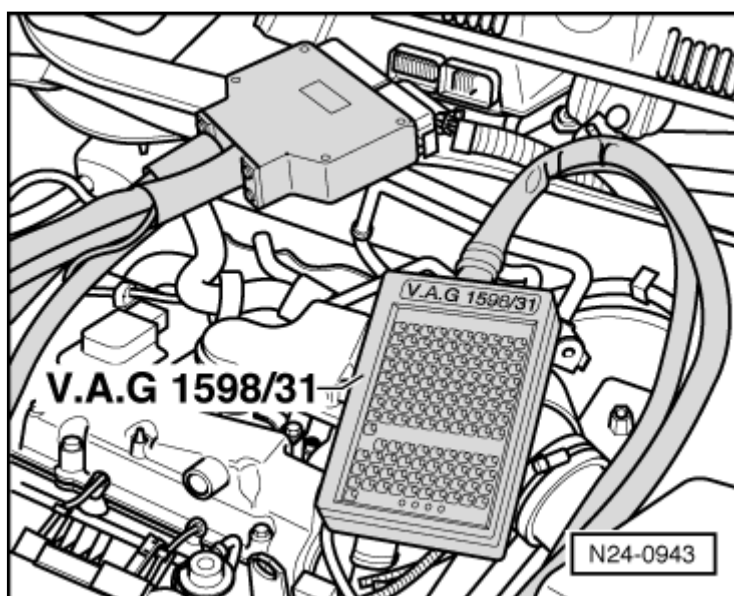
- → Connect multimeter to contacts 3 and 4 (connector to engine control unit).
- Check activation of engine control unit and observe display group 41, display zone 2.
Display Htg.bC.ON
Specification: 11.5...14.5 V



- Switch off ignition.

If the specification is not obtained:

- → Connect test box V.A.G 1598/31 to control unit wiring harness. The engine control unit remains disconnected.



- → Check wiring between test box and 6-pin connector for open circuit using current flow diagram:
Contact 4 and test box socket 4
Wire resistance: max. 1.5 ω
- Additionally check wiring for short to battery positive or earth.

If the specification is obtained:

- Renew engine control unit => Page [24-120](#).

