

Servicing Motronic injection system

Checking injectors

Electrical checks on injectors

- Remove connector from the injector which is to be tested.
- → Connect hand-held multimeter to injector to measure the resistance.

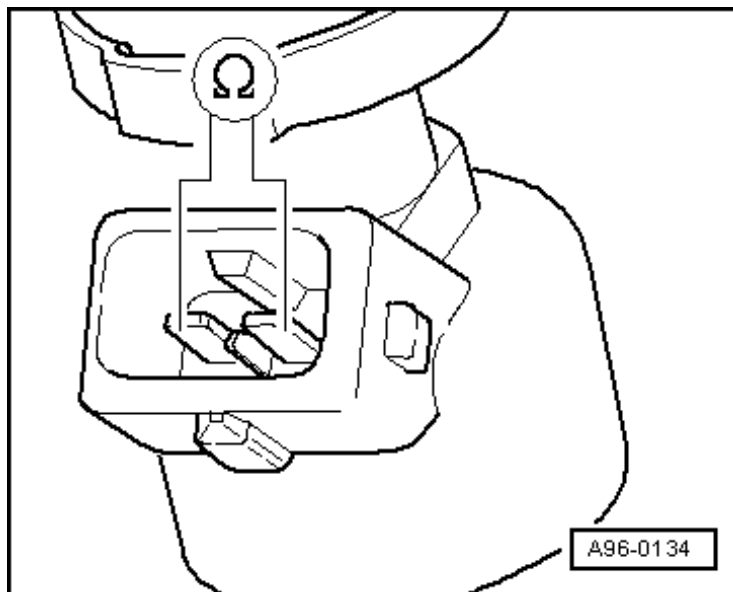
Specified value: 13...16 ω

Note:

When the engine is at operating temperature the resistance of the injectors is increased by approx. 4...6 ω .

If specified value is not attained:

- Replace injector.



If specified value is attained:

- Check the voltage supply
=>Page 24-48.

Checking power supply

- Remove connector from the injector which is to be tested.
- → Connect diode test lamp for measuring voltage between earth and socket 1 of connector.
- Operate starter for a few seconds (the engine can be allowed to start).

Specified value: The diode test lamp should illuminate.

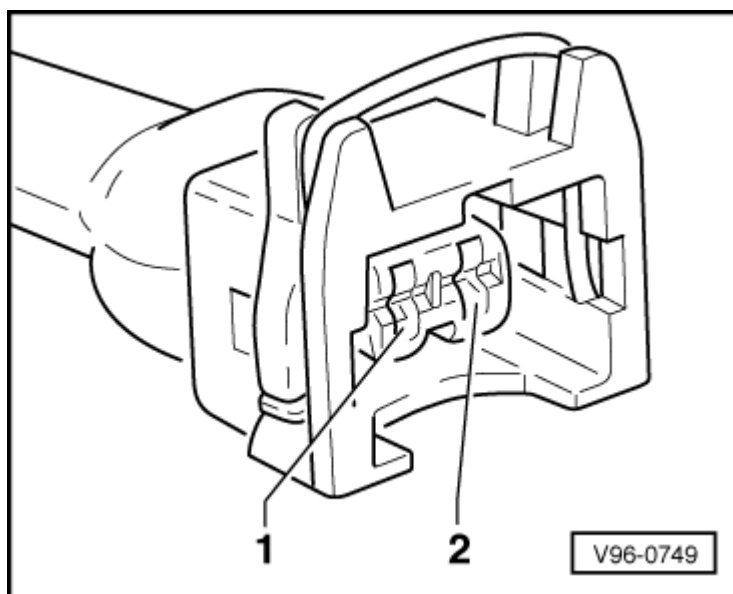
If the diode test lamp illuminates:

- Check wiring => Page 24-49

If the diode test lamp does not illuminate:

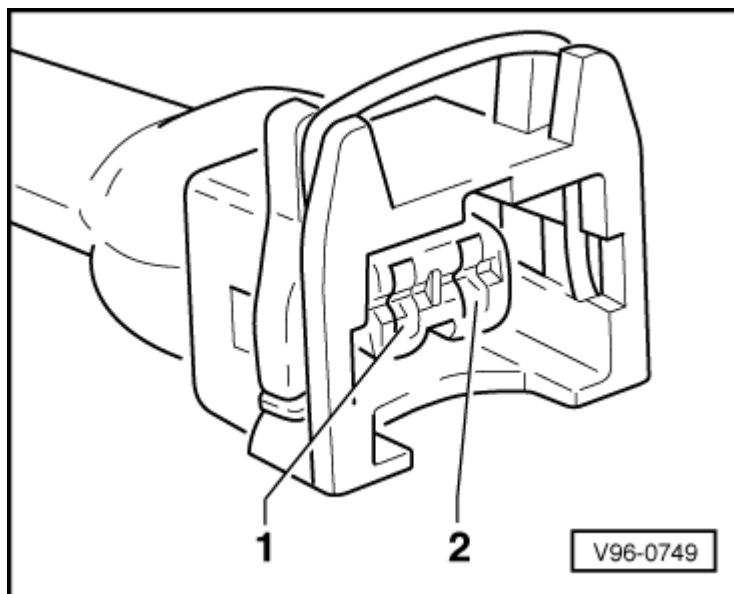
- → Check the wiring from socket 1 via the injector fuse to the fuel pump relay for continuity and, if necessary, rectify open circuit.

=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder



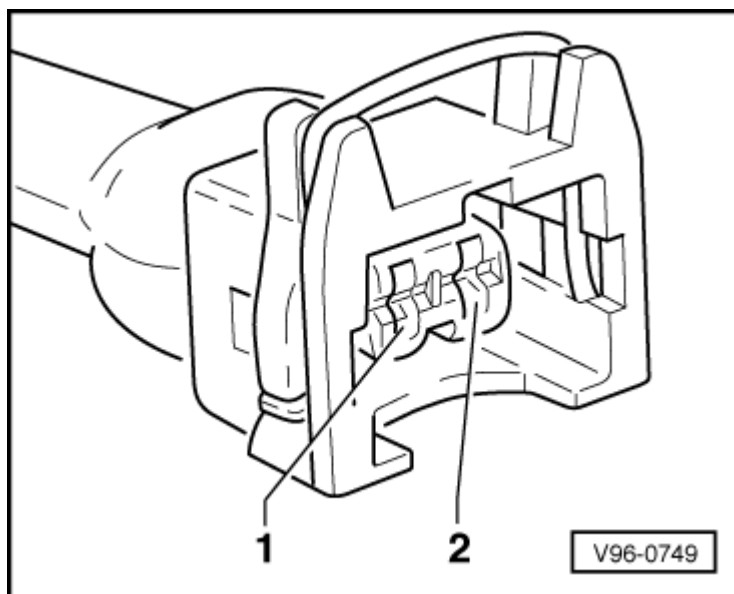
Checking wiring

- Switch ignition off.
- Remove connector from the injector which is to be tested.
- Connect test box V.A.G 1598/31 to wiring harness for engine control unit; do not connect the engine control unit => Page 24-12.



- → Check for open circuit and short to positive or earth in the following wiring connection:

Cylinder	2-pin connector on wiring harness, socket	Test box V.A.G 1598/31, socket
1	2	96
2	2	19 or 23
3	2	113
4	2	88
5	2	97
6	2	112
7	2	24
8	2	89



Wire resistance: max. 1.5 Ohm

- Rectify any open/short circuit as necessary.

=> Current Flow Diagrams, Electrical Fault-finding and Fitting Locations binder

- If the wiring is OK replace engine control unit => Page 24-16.