

Camshaft Adjustment Valves, Checking

- Switch ignition on.
- Perform Output Diagnostic Test Mode (DTM) and actuate valves for camshaft adjustment → **Chapter**.

Indicated on display

Output Diagnostic Test Mode →
Valve 1 for camshaft adjustment

Upon actuation of camshaft timing control, both valves should give a clearly audible click.

If specified value is not attained, perform the following tests:

Checking valves for camshaft adjustment electrically

- Disconnect connector from relevant valve for camshaft adjustment.
- Measure resistance between contacts on valve using hand-held multimeter - VAG1526-.

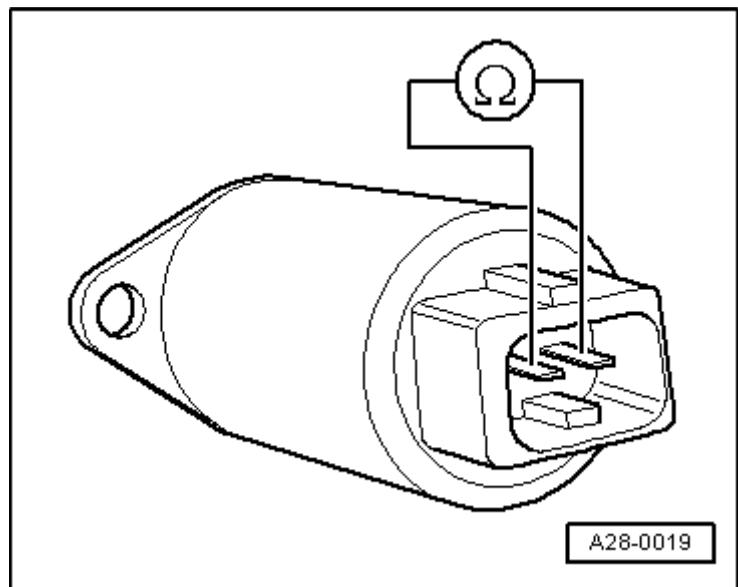
Specified value: 10 ... 18 ohm.

If specification is not attained:

- Replace relevant valve for camshaft adjustment.

Testing voltage supply valves for camshaft adjustment

- Disconnect connector from relevant valve.



- Connect diode test lamp - VAG1527- between engine Ground and socket 1 (positive) on connector using cables from adapter set - VAG1594-.
- Operate starter for a few seconds. Engine may start.

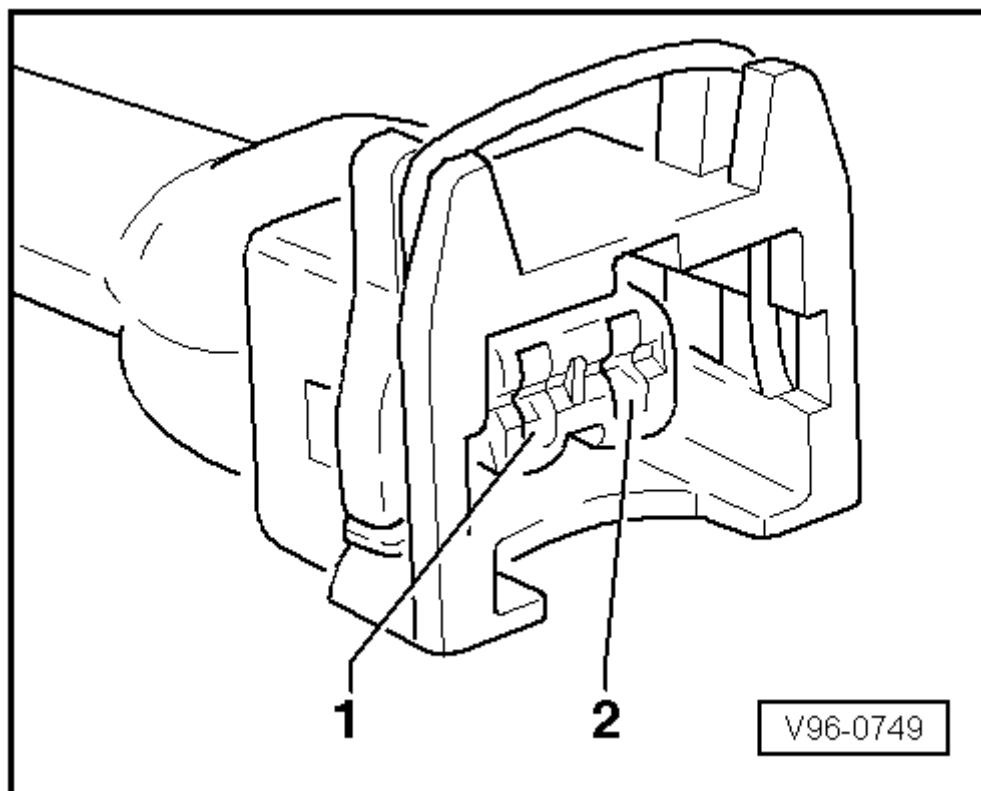
Diode test lamp should illuminate.

If the diode test lamp does not illuminate, perform the following tests:

- Check fuse for

valves for
camshaft
adjustment.
→ [Wiring
diagrams,
Troubleshooting
& Component
locations](#)

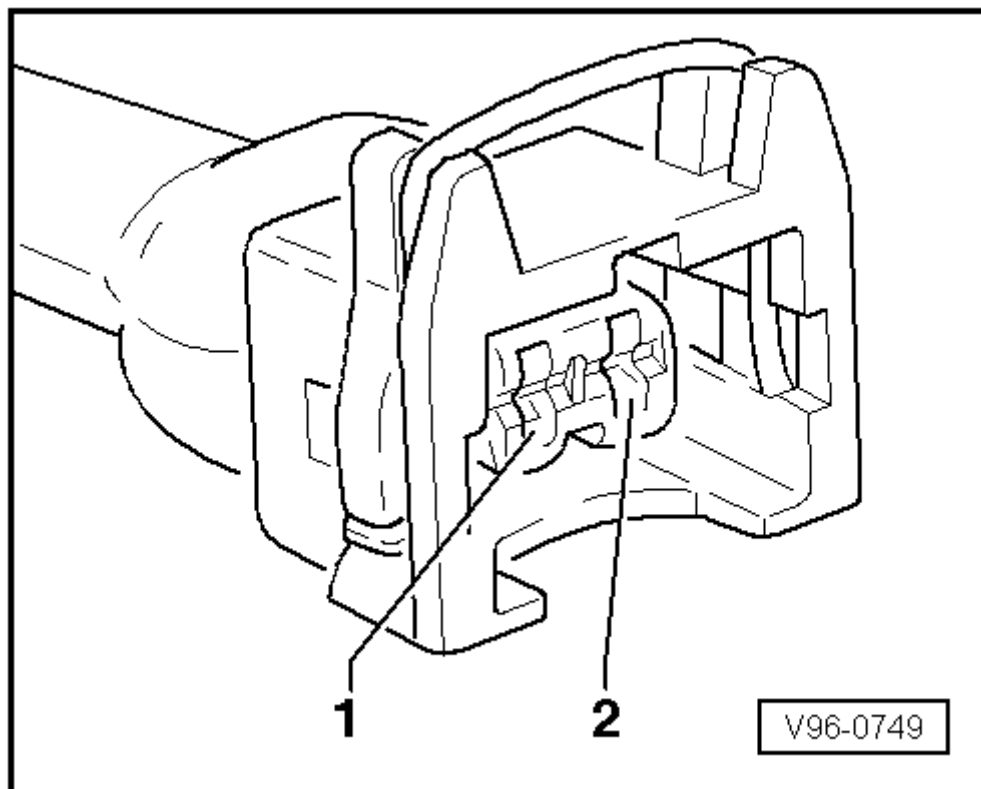
If the fuse is OK:



- Check wiring from socket 1 via fuse to fuel pump relay for continuity.
→ [Wiring diagrams,
Troubleshooting
& Component
locations](#)

Checking actuation of valves for camshaft adjustment

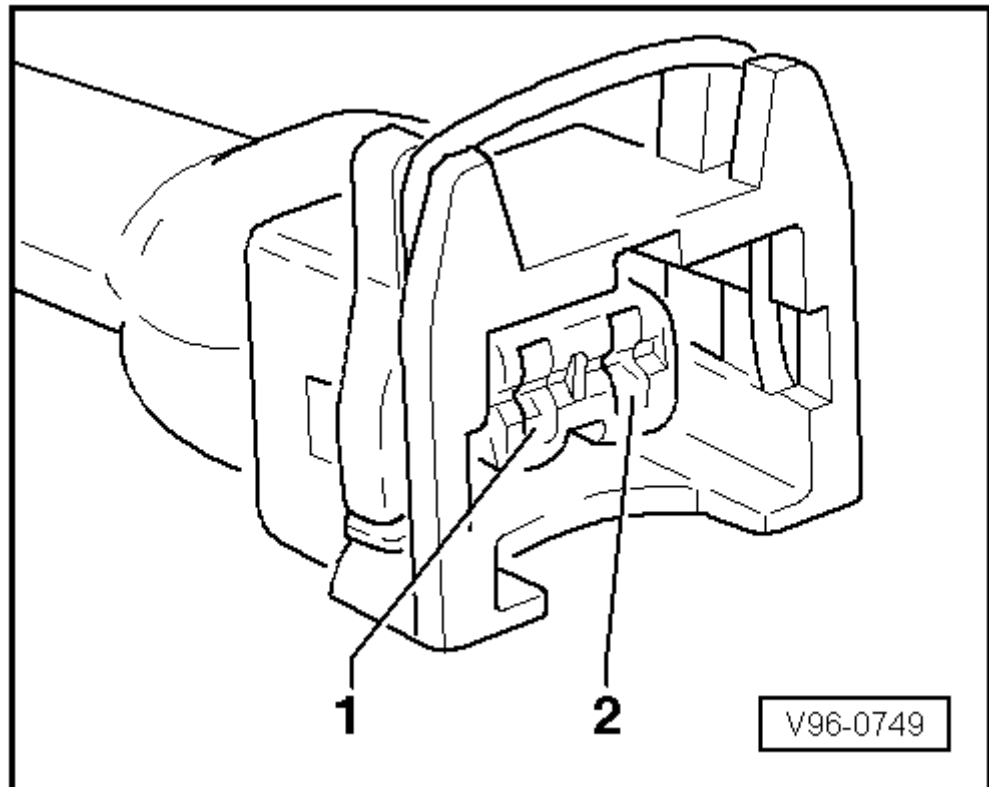
- Disconnect connector from relevant valve.



- Connect diode test lamp - VAG1527- between sockets 1 (positive) and 2 on connector

valve using cables from adapter set - VAG1594-.

- Perform Output Diagnostic Test Mode and actuate valves for camshaft adjustment → **Chapter.**



Indicated on display

Output Diagnostic Test Mode →
Valve 1 for camshaft adjustment

Diode test lamp should flash on and off upon actuation of camshaft timing control.

If the diode test lamp is continuously lit:

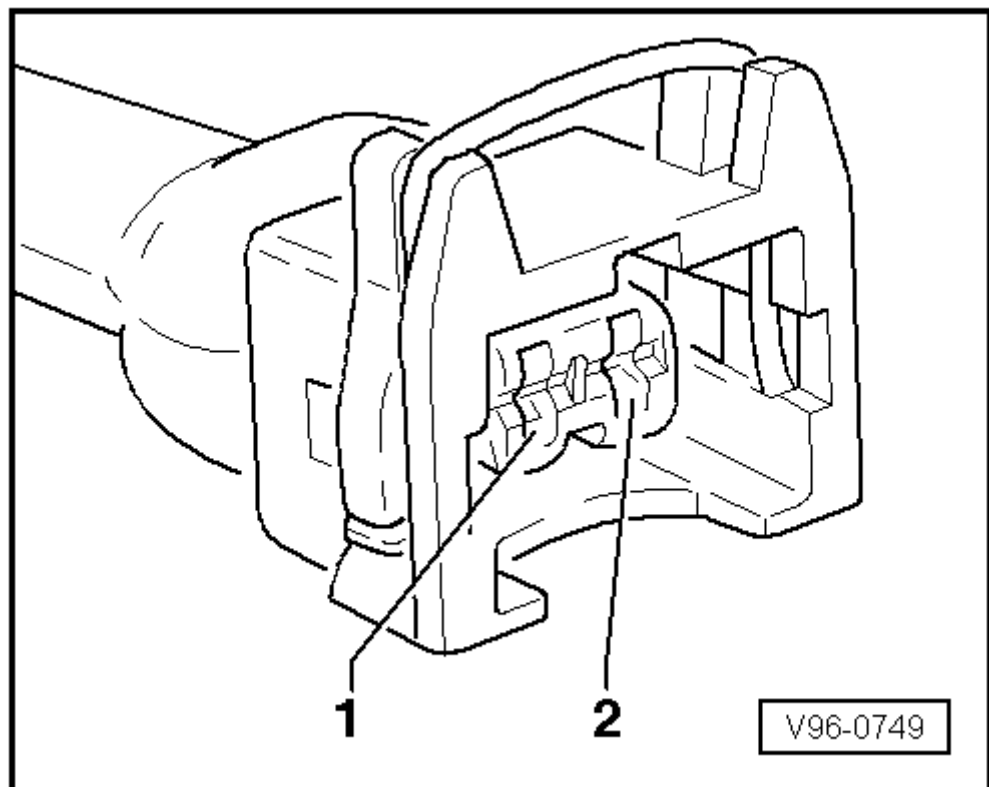
- Check wiring connections from socket 2 of relevant connector for valve for camshaft adjustment for Ground short.

If the diode test lamp does not flash:

- Check wiring.

Checking wiring

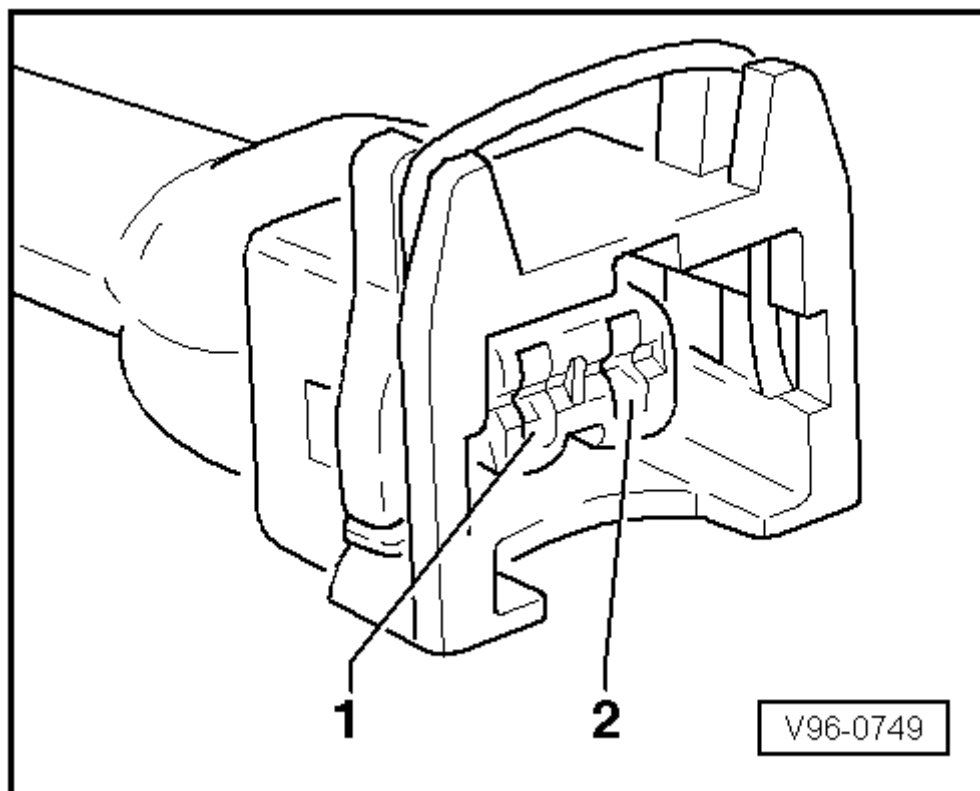
- Connect test box -VAG1598/31- to wiring harness for engine control unit; do not connect engine control module → **Chapter.**



- Check wiring connection of relevant connector for valve for camshaft adjustment for open circuits as well as short to positive.

Vehicles up to model year 2001

Valve 1 for camshaft adjustment -N205- and Valve 2 for camshaft adjustment -N208-



2-pin connector on wiring harness, contact.	Test box -VAG1598/31-socket
2	115

Wire resistance: max. 1.5 Ohm

- Correct any open/short circuit as necessary. → [Wiring diagrams, Troubleshooting & Component locations](#)

Vehicles from model year 2002

Valve 1 for camshaft adjustment -N205-

2-pin connector on wiring harness, contact.	Test box -VAG1598/31-socket
2	115

Wire resistance: max. 1.5 Ohm

- Correct any open/short circuit as necessary. → [Wiring diagrams, Troubleshooting & Component locations](#)

Valve 2 for camshaft adjustment -N208-

2-pin connector on wiring harness, contact.	Test box -VAG1598/31-socket
2	120

Wire resistance: max. 1.5 Ohm

- Correct any open/short circuit as necessary. → [Wiring diagrams, Troubleshooting & Component locations](#)

If no short circuit or open circuit is found, replace engine control module → [Chapter](#).

- If none of tests already performed indicate a malfunction, then replace mechanical camshaft adjuster. → [Engine Mechanical; Rep. Gr.15](#)