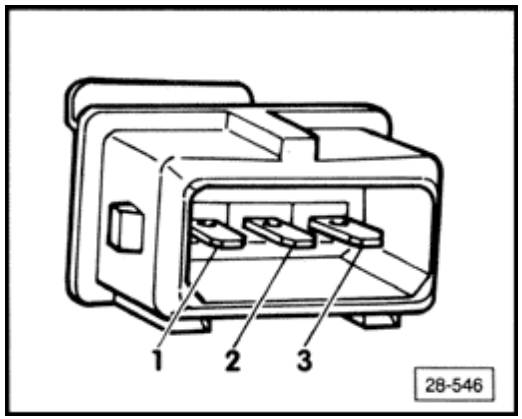
Crankshaft Position (CKP) sensor, checking

Component locations ⇒ page 28-1 .

- All sensors correctly installed, securely connected

- Disconnect (black) harness connector.



- Switch Fluke 83 multimeter to resistance range and connect between CKP sensor connector terminals 1 and 2 (in connector bracket) using jumper wires from VW 1594 test kit.

  Specified value: approx.1000 Ω

If the specified value is not obtained:

- Replace Crankshaft Position (CKP) sensor.

If the specified value is obtained:

- Connect multimeter between terminal 1 and 3 (GND), then between terminals 2 and 3 (GND).

  Specified value: infinite Ω (open)

If the specified value is not obtained:

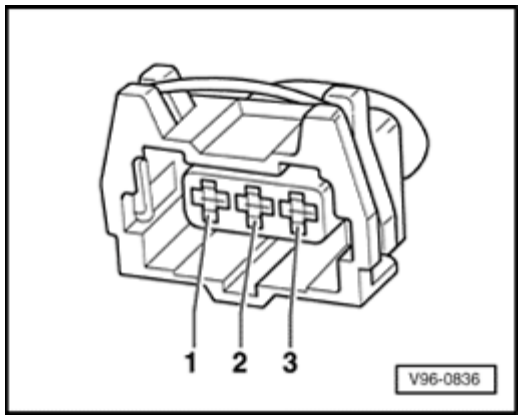
- Replace Crankshaft Position (CKP) sensor.

If the specified value is obtained:

- Check wiring for continuity or short between CKP sensor and ECM using wiring diagram.

28-20

- Connect VAG 1598/19 test box to ECM harness connector ⇒ page 01-255 .



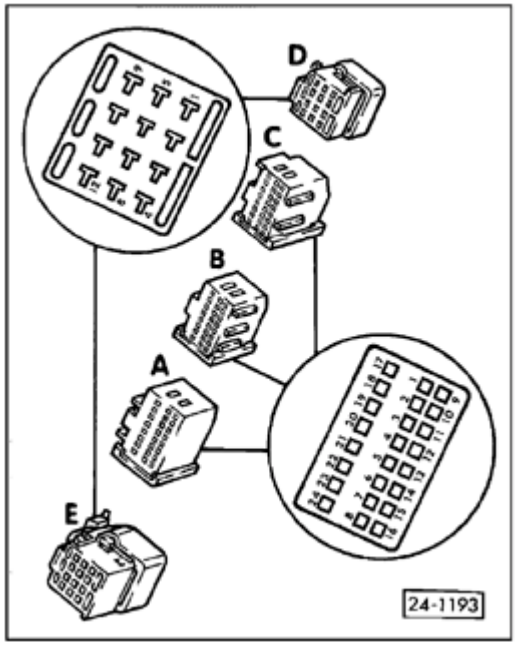
- Check CKP sensor shielding for continuity by connecting multimeter between terminal 3 and engine Ground (GND).

  Specified value: max. 1 Ω

- Check wiring for continuity between CKP sensor connector terminal 1 and test box socket A9, then between CKP sensor connector terminal 2 and test box socket A10.

  Specified value: max. 1 Ω

If the specified values are not obtained:



- Eliminate short or open circuit in wiring.

CKP sensor terminal number	ECM connector A or engine ground (GND)
1	A9
2	A10
3	Engine Ground (GND)

If wiring is OK:

- Replace ECM ⇒ page 01-265 .