

Checking Transistorized Ignition, Installed in the Vehicle

Checking of Control Unit with Shut-off Engine

Use a voltmeter to measure the voltage drop at the primary winding of the ignition coil.

Measuring the Current

Switch off ignition. Check whether contact breaker point is closed. Otherwise continue to turn engine until contact is closed.

Connect black voltmeter cable to ground, red cable to terminal 15 of ignition coil (Fig. 61).

Switch on ignition and read voltage on voltmeter.

Rated value: **2.6–3.5 volts**.

Open breaker contact. When doing this, the voltage must return to zero.

Checking Ignition Coil

Disconnect all connections from ignition coil. The primary resistance between terminal 1 and 15 is

0.38–0.43 ohm at 20° C (68° F).

The connections 1 and 15 should have no ground connection.

To carry out the measurement, use a commercially available ohm meter. The ohmic ranges of a normal multiple measuring instrument are generally too inaccurate for such measurements.

At an ignition coil temperature of approx. 80° C (176° F), the resistance value measured is by approx. 25% higher.

Checking of Series Resistors

Disconnect connection cables.

Check connection terminals for ground connection. Use an ohm meter to measure the resistance.

1. Rated value: **0.4 ohm ± 0.05 ohm** at 20° C (68° F). Resistance (2) between ignition switch and control unit.

2. Rated value: **0.6 ± 0.05 ohm** at 20° C (68° F). Resistance (4) between control unit and ignition coil.

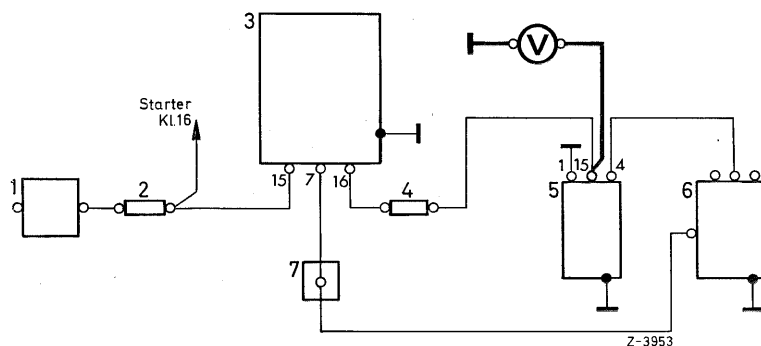


Fig. 61

- 1 Ignition starter switch
- 2 0.4 series resistor
- 3 Control unit
- 4 0.6 series resistor
- 5 Ignition coil
- 6 Ignition distributor
- 7 Cable connector (terminal 7 control unit – ignition distributor)