



TESTING BOSCH IGNITION COILS, IGNITION TRANSFORMERS

GENERAL

With the advent of electronic ignition these ignition coils and ignition transformers can no longer be tested using the Bosch ignition coil tester EFMZ-1A.

WHEN TESTING ALL IGNITION COILS AND IGNITION TRANSFORMERS IN FUTURE THE FOLLOWING TEST PROCEDURE MUST BE ADHERED TO.

TESTING

VISUAL INSPECTION

Check the ignition coil, ignition transformer for damage (due to dropping or impact), for broken off connections (faulty installation), signs of tracking (due to badly fitting cables or missing rubber boots), dry solder joints at terminals 1 (Neg.) and 12 (Pos.) and escaping oil or sealing compound (safety vent or stop plugs).

RESISTANCE CHECK

The resistance check is carried out using Bosch Electric Tester ETE 014.00 or commercially available Ohm meter having a range from m Ω to k Ω .

All checks are to be carried out at room temperature (+15°C - +40°C) as temperature has a considerable affect on the readings.

NOTE: THE ABOVE TEST PROCEDURE IS APPLICABLE WHEN TESTING INDIVIDUAL IGNITION COILS REMOVED FROM THE IGNITION SYSTEM. IF A FUNCTIONAL TEST IS REQUIRED THEN THE IGNITION COIL MUST BE CONNECTED AS PER THE IGNITION SYSTEM AND TESTED ACCORDING TO THE RELEVANT REPAIR/TEST INSTRUCTIONS.

OBSERVE SAFETY REGULATIONS WHEN WORKING WITH ELECTRONIC IGNITION SYSTEMS.

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The part number is located on the base of the ignition coil.

Part Number	Primary Resistance Ω	Secondary Resistance $K\Omega$
9 220 061 0.. 6V	1.10 - 1.30	5.50 - 7.50
9 220 061 1.. 12V	3.10 - 3.40	6.80 - 9.20
9 220 061 2.. 6V Super	1.15 - 1.35	6.80 - 9.20
9 220 061 3.. 12V Super	3.20 - 3.50	8.00 - 10.00
9 220 061 308 GT40	3.20 - 3.50	8.00 - 10.00
9 220 061 4.. 12V Ballast	1.45 - 1.55	6.80 - 9.20
9 220 061 430 GT 40 R	1.25 - 1.35	8.00 - 10.00
9 220 061 442/443	0.95 - 1.05	6.80 - 9.20
9 220 061 445/446	0.62 - 0.68	5.50 - 7.50
9 220 061 447/448	0.76 - 0.84	5.00 - 6.90
9 220 061 449/444	0.76 - 0.84	5.00 - 6.90
9 220 061 450	0.62 - 0.68	5.50 - 7.50
9 220 061 451/455	0.76 - 0.84	5.00 - 6.90
9 220 061 456/601	0.76 - 0.84	5.00 - 6.90
9 220 061 457/458	0.62 - 0.68	5.50 - 7.50

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