



MT Riders Club forum



Ignition System Electrical testing

Members name
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Disclaimer this is a guide and MTRC accept no liability for injury death or damage from using this if you think the information here is incorrect refer to the user manuals

Requirements Page

You will need the following to carry out this Job

Tools Required For This Job:

- 1) Digital Multi Meter
- 2) 13MM spanner
- 3)
- 4)
- 5)

Parts required for this job:

- 1)
- 2)
- 3)
- 4)
- 5)

Specialist Tools Required:

- 1)
- 2)
- 3)
- 4)





Once you have removed the seat and petrol tank using the 13mm Spanner it will give you access to the Connections you will need to unplug to test the resistances



Trigger coil Testing



The High Speed Trigger coil

To test this put a meter across the Pink and Black cables as shown in the picture above

This connector is on the engine side not the amplifiers side

The Spec stated is 12-20 Ω as you can see my reading was 15.9





The Low Speed Trigger coil

To test this put a meter across the Blue and Black cables as shown in the picture above

This connector is on the engine side not the amplifiers side

The Spec stated is 120-180 Ω as you can see my reading was 138.2



Fly Wheel & Generator Testing



The Low Speed Charging coil

To test this put a meter across the Brown and Black cables as shown in the picture above
This connector is on the engine side not the amplifiers side

The Spec stated is 230-250 Ω as you can see my reading was 296.2
Although this reading is out of speck it works fine





The High Speed Charging coil

To test this put a meter across the Brown and Red cables as shown in the picture above
This connector is on the engine side not the amplifiers side

The Spec stated is 4-6 Ω as you can see my reading was 5.6





The Lighting coils

To test this put a meter across the cables in the following configuration This connector is on the engine side not the regulator side

White - Orange Spec stated is 0.6 - 0.9 Ω as you can see my reading was 0.9

White - Green Spec stated is 0.54 - 0.8 Ω as you can see my reading was 0.7

Green - Orange Spec stated is 0.8 - 1.6 Ω as you can see my reading was 0.8



Ignition Coil Testing

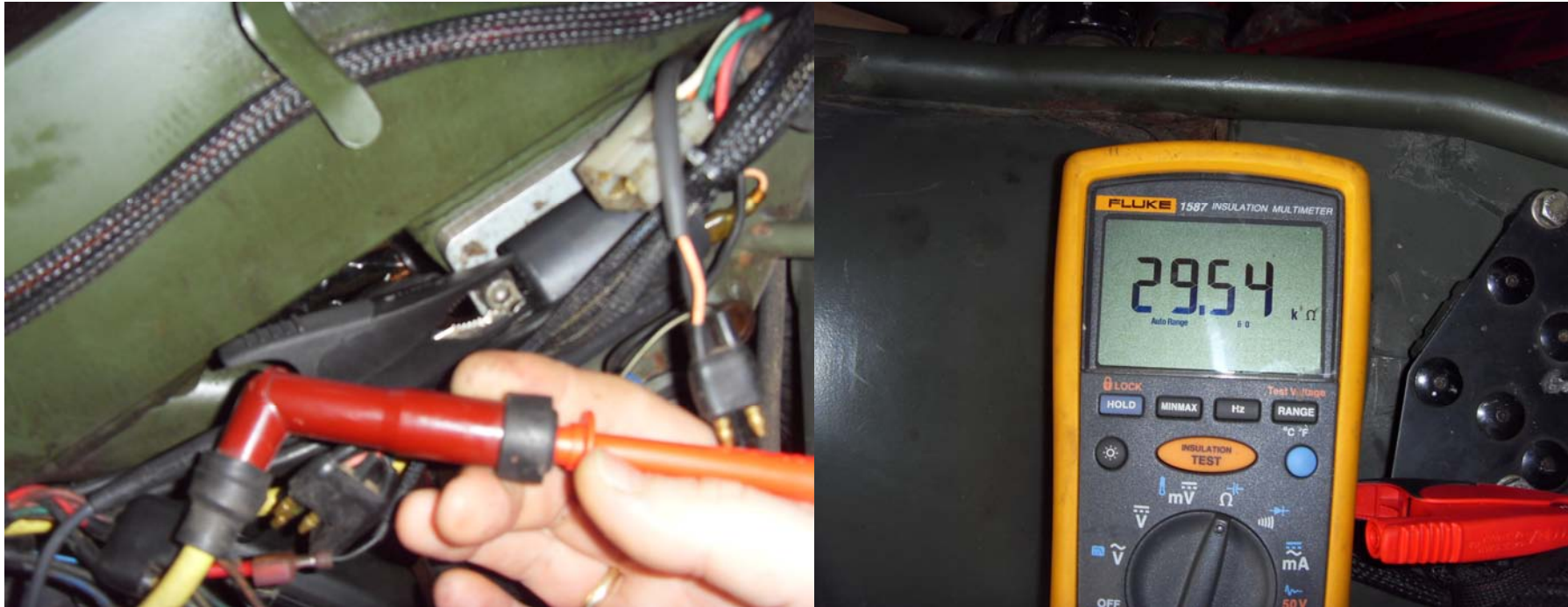


The Primary winding on the coil

To test this I clipped the meter to a good Earth point and to the Pink cable as shown in the picture above
This connector is on the Coil side not the amplifiers side

The Spec stated is 0.95 - 1.1 Ω as you can see my reading was 1.5
This is out of the book spec but works fine





The Secondary winding on the coil
To test this I clipped the meter to a good Earth point and to the HT cap as shown in the picture above

The Spec stated is 11 - 12 KΩ as you can see my reading was 29.54
This is out of the book spec but works fine the reading will be a higher value as this also has the resistance value from the HT lead and cap



Results

Trigger coils

High Speed Trigger Coil _____

Low Speed Trigger Coil _____

Flywheel & Generator

Low Speed Charging _____

High Speed Charging _____

Lighting Coils _____

Ignition Coil

Primary Winding _____

Secondary Winding _____

