

Model T Coil Secondary Resistance And Capacitor Tester

Instruction Manual



Secondary Resistance Test



Capacitor Test

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1 Description

1.1 Model T Secondary Resistance and Capacitor Tester

The Model T Coil Secondary Resistance and Capacitor Tester (**MTCSRCT**) is used to test Model T coil secondary resistance and internal capacitor are within the nominal range. This information is useful when inspecting Model T coils offered for sale at swap meets and flea markets where the Model T coil condition is unknown. Model T coil secondary resistance outside the nominal range of **2200 Ohms** to **3800 Ohms** indicates the coil may not function as intended. An open secondary winding is generally not repairable.

1.2 Secondary Resistance Test

Place the **MTCSRCT** side terminals in contact with the perspective coil terminals to test the Resistance of the coil secondary winding. See Figure 1.

Power automatically turns on and the Red ON LED is illuminated when the **MTCSRCT** senses coil resistance. The green TEST OK LED will illuminate and steady beep will sound if the secondary resistance is within the nominal resistance range of **2200 Ohms** to **3800 Ohms**. The **Out of Range LED** will illuminate and a low frequency buzz will sound if the **MTCSRCT** detects a measurement outside the nominal range. Note: A slight up and down rubbing action may be necessary to insure good coil terminal electrical contact depending upon the terminal condition.



Figure 1 – Secondary Resistance Test

Model T Coil Secondary Resistance and Capacitor Tester

1.1 Capacitor (Condenser) Test

Place the **MTCSRCT** bottom terminal in contact with the Vibrator Spring mounting stud and the lower side terminal in contact with the Cushion Spring mounting flange. Open the coil points by pressing down on the vibrator spring to test the Capacitor value. See Figure 2.

The green **TEST OK** LED will illuminate and steady beep will sound if the capacitor value is **0.047uF +/- 20%** indicating the internal capacitor is within the nominal range and may not need to be replaced. **The Out of Range LED** will illuminate and a low frequency buzz will sound if the MTCSRCT detects a measurement outside the nominal range.

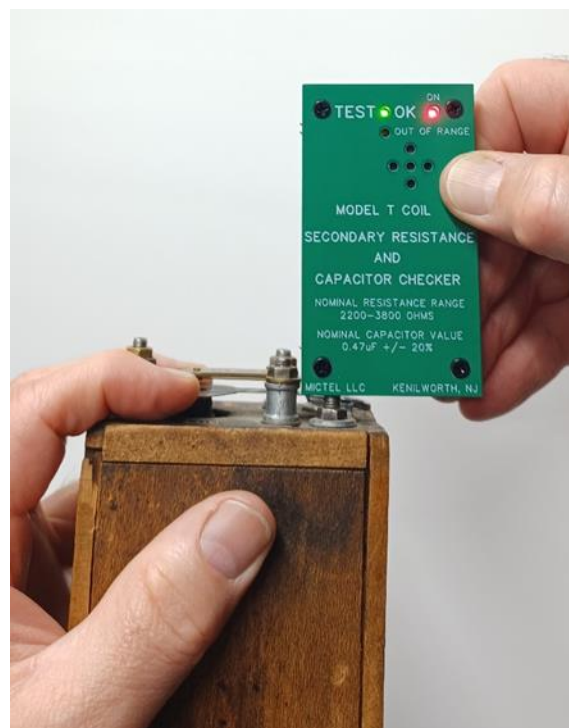


Figure 2 – Capacitor Value Test

1.2 Silent Test Mode

The audible TEST OK beep can be turned off by holding the MTCSRCT side terminals in contact with a flat metal surface for 3 seconds. A single long beep will sound when Beep mode is turned off. The Green TEST OK LED will be the only test indicator when beep mode is turned off.

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The audible TEST OK beep can be turned back on by repeating the same process of holding the side terminal in contact with a flat metal surface for 3 seconds. Two short beeps will be sounded when Beep mode is turned on.

2 Maintenance

The **MTCSRCT** is powered by a single type CR2032 battery. Low battery alert of 4 short beeps will sound when the MTCSRCT powers on and the Low Battery LED will flash when the battery requires replacement. **Important!** Test results may not be accurate during low battery operation.

3 Warranty

The MTCSRCT is warranted against defects due to faulty workmanship or materials for a period of one year from the date of purchase. Units found to be defective during the warranty period will be repaired or replaced, at the discretion of the manufacturer, without charge, excluding shipping. Proof of purchase and a Return Authorization are required.