

NDT® KIT Overview

Caution Only Trained Personnel Should Attempt the Following: To discharge the high voltage electricity that could be stored in the capacitors or high voltage power supply attach one end of an insulated 16 gauge wire to ground; then touch points A, B, C, D, and E with the other end of the grounded wire. If electricity is stored, an arc will occur. If an arc occurs repeat the process until no electrical arc is heard or seen.

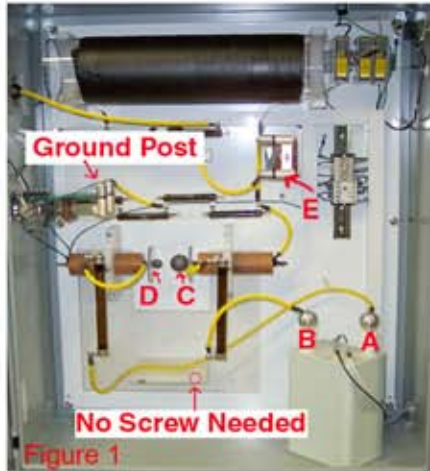


Figure 1

Note, wires routed in a different form or style from those shown on these pictures may cause technical problems with the NDT.

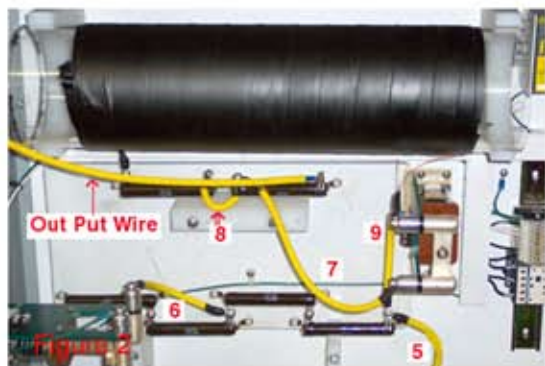


Figure 2

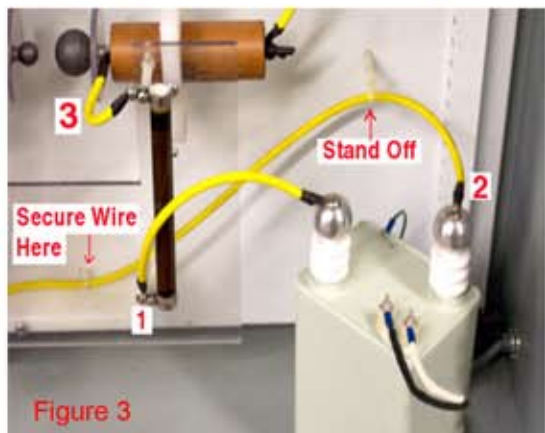


Figure 3

Note the standoff, this may require drilling and tapping a 1/4-20 threaded hole. Additionally, secure the wire to the white UHMW standoff behind the clear U-shaped plastic.

- NDT Kit Overview
- Step 1 Discharge High Voltage Electricity
 - Step 2 Remove Hardware and Wiring, Check Resistors
 - Step 3 Wipe Down High Voltage Cabinet-Free of Debris
 - Step 4 Replace Wiring and Hardware
 - Step 5 Gap Carbon Balls, Check Resistors
 - Step 6 Replace High Voltage Output Wire
 - Step 7 Replace Probe Parts
 - Step 8 Align Probe



Figure 8



Figure 4



To gap the carbon balls loosen the top screw of the clamp that holds the brown capacitor (the capacitor with the big carbon ball attached to it). With the top screw loosened, the brown

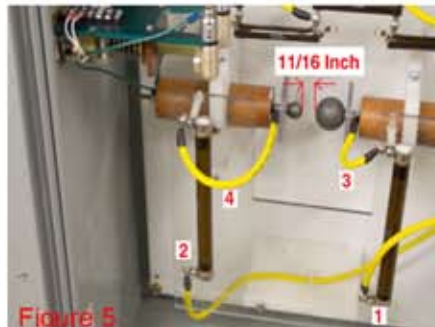


Figure 5

capacitor can easily slide horizontally towards the capacitor with the small ball attached to it. The gap should be 11/16th inch.

Measure the 1 Meg resistor by connecting your meter leads across the resistor from top to bottom.



Figure 6

Measure the 20 Meg resistor by connecting your meter leads across the resistor from top to bottom.



Figure 7

With your meter leads connected to points A and B your meter should indicate approximately 0 ohms. Now push the plunger on Relay #1 your meter should indicate a value of 10 K ohms



Figure 9

With your meter leads connected to points B and C your meter should indicate a value of approximately 150 ohms.



Figure 10

With your meter leads connected to points D and E your meter should indicate a value of approximately 156 ohms. Now push the plunger on Relay # 2 your meter should indicate a value of approximately 300 ohms.