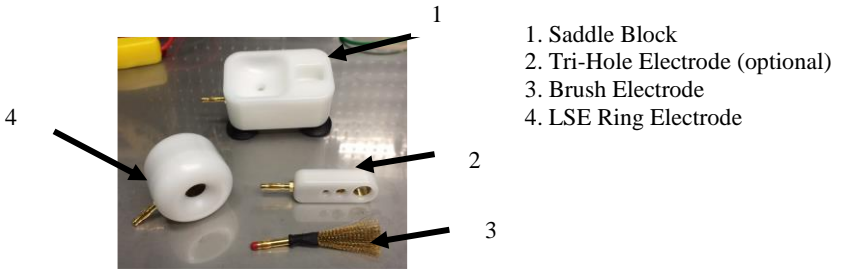


OPERATIONAL GUIDE FOR SADDLE BLOCK TESTER MMSBT-170

THIS TESTER CAN ONLY BE USED WITH THE MCGAN HIGH VOLTAGE INSULATION DEFECT TESTERS USED TO TEST THE JACKET INTEGRITY OF ELECTROSURGICAL INSTRUMENTS

NOTE: Please read the full MM PD-8K or MM513 operation manual in detail before operating the unit. Review all warnings noted in the manuals. Always use gloves when using these kits.

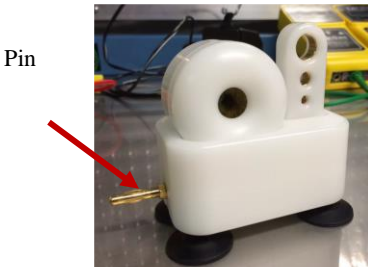
USE: The MMSBT-170 is used in conjunction with the MMPD-8K KIT or the MM513 KIT. This is a non-destructive, non-patient contact, high voltage insulation tester designed to test the insulation integrity of electro-surgical instruments.



1. Secure the Saddle block to a flat, preferably metal surface, by pushing the top of the unit until the suction feet stick to the surface.
2. There are a number of ways to set the Saddle Block up depending upon the electro-surgical instrument (ESI) to be tested and/or the McGan kit used.

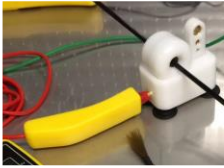
a. For Round ESI such as laparoscopic

- i. Insert the chosen electrode into the proper slot in the top of the Saddle Block. Make sure the pin is securely placed in the hole.



The LSE and Tri-Hole Electrodes mounted in Saddle Block

- ii. If using the MMPD-8K Kit attach the HV Red wire to the pin located on the side of the Saddle Block
- iii. If using the MM513 Kit attach the HV Red wire to the pin on the side of the Saddle Block **OR** connect red port on the top of the unit directly to the side pin. Make sure controls face up.



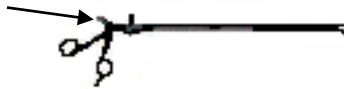
HV Red Wire attached to pin



MM513 attached directly to pin

- iv. Take the clamp on the Green ground wire and attach it to the conductive core of the instrument under test.

Attach ground clamp here



- v. Turn the base unit on and set the voltage to 2.8kV +/- 0.3kV



Setup using MMPD-8K



MM513 with HV wire



MM513 Direct attachment to Saddle Block

- vi. Push the ESI under test through the LSE ring slowly (approximately 3 feet every 4 seconds)
- vii. The Alarm will sound when the ESI is first inserted into the electrode as that is the bare tip of the instrument.
- viii. Alarm will sound and LED will Flash if a fault is found in the coating which will indicate a fault with the instrument.

Using the Tri-Hole Electrode:

1. The Set-up is the same as the steps in #2 except set the voltage to 4.2KV +/- 0.3KV
 - i. Insert the round electrosurgical instrument into hole size closest to the diameter of the ESI under test. NOTE: Hole sizes are slightly larger than 3mm, 5mm and 10mm from the bottom (pin side) up.

For Bi-Polar Instruments: (wear gloves)

- i. The Set-up is the same as the steps in #2
- ii. Place the Brush Electrode into the Saddle Block in the slot on the right side away from the pin.



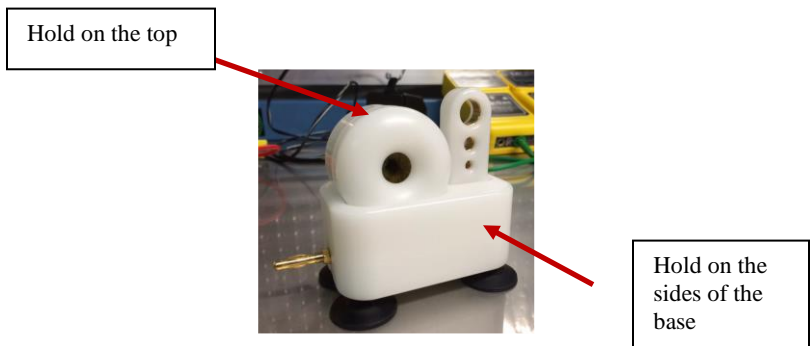
- iii. Attach the Green ground wire to the back end of the bi-Polar forceps. Make sure the clamp is connected to both pins.
- iv. Insert the end of one tine of the Bi-Polar forceps into the middle of the brush,



- v. Turn the base unit on and set the voltage to $2.8\text{kV} \pm 0.3\text{kV}$
- vi. Slowly push the Bi-Polar forceps away from you. Go from the tip of the forceps to the base.
- vii. Repeat using the second tine.
- viii. Alarm will sound and LED will Flash if a fault is found in the coating which will indicate a fault with the instrument

NOTES:

- A. The unit should always be switched off prior to removing or repositioning of the ground lead, the HV red wire or the Saddle Block..
- B. If the unit is on and you touch the ground lead (clamp end) and the probe end of the base unit at the same time you will receive a very mild “tingle”. To remove the possibility of receiving the “tingle” always use surgical gloves when handling the leads.
- C. You can hold the Saddle Block from the top or the sides as long as you do not touch the connection points.



- D. Read the Full Operator’s Handbook in detail and always use caution when operating the MM PD-8K.



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