

MCH-100-A Hotjet Heat Gun  
HEATING ELEMENT ON/OFF SWITCH REPLACEMENT PROCEDURE

**111.038.1 HEAT GUN SWITCH REPLACEMENT PROCEDURES**

**Revision: 11/8/12**

The 111.038.1 Heat Gun heating element on/off switch, part # 102.969, replacement instructions.

- (1) Unplug tool from power supply.
- (2) Remove three screws from handle. See fig 1



Fig 1

- (3) Carefully slide the handle back over the cable. DO NOT FORCE IT off or you may snap the screen and switch bracket. Slowly work it back and forth while you pull back on the handle.
- (4) Starting with MCH-100-A serial number 992142 the EMI protection in the 111.038.1 heat gun assembly changed from a nickel metal painted shield to SS sheet metal. Fig 2 below shows the sheet metal shield as the handle is pulled back. Figure 3 shows the handle completely pulled back and the sheet metal EMI shield.



Figure 2



Figure 3

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(5) Figure 4 shows the location of the switch externally.

(6) Figure 5 shows the location of the switch internally.



Figure 4

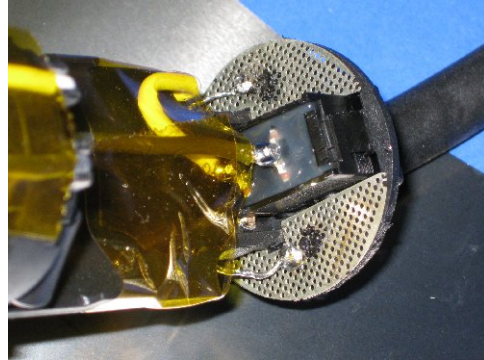


Figure 5

(7) Remove the tape surrounding the switch wire connection points. De solder the two wire's from the back of the switch.

(8) The switch is push snapped in place. You will see a clip on the top of the switch. Press down on the clip and at the same time you remove the switch. See Figure 6

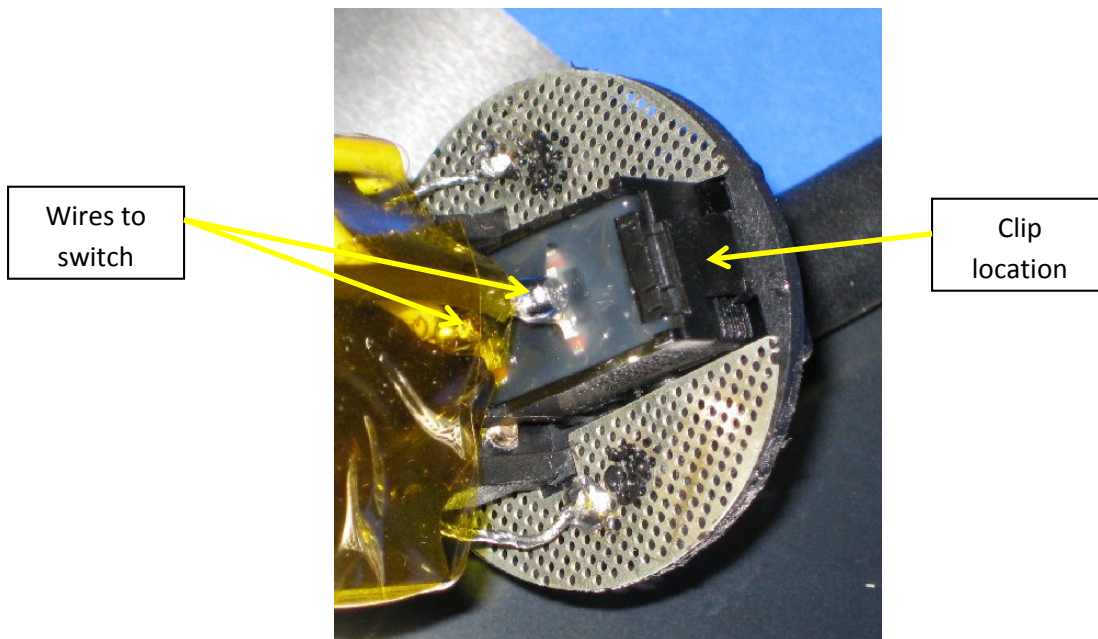


Figure 6

(9) Push fit the new switch into place. Then solder the leads you de-soldering in step 6 back onto the switch.

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(10) With the new switch in place plug the heat gun into the MCH-100-A power supply to test the tool before you re-install the handle. **WARNING** because the handle is off there is a risk of electrical shock, therefore be very careful as you run the test not to touch any part of the exposed electrical connections. When the heat gun is powered up turn the switch off and on while measuring the temperature coming out of the heat gun. If the switch is working you will see the temperature move up and down as you turn the switch on and off.

(11) Carefully replace the handle. Being careful not to damage EMI shield. Position the shield as shown in Figure 7. Figure 8 and 9 shows the shield wrapped around the inner workings of the tool with the handle slipped into place to start the process. Note the shield slightly overlaps itself as it goes in. Figure 9 shows the overlap. The handle goes on one way as it has a slight “U” in the back end for the power cord. See Figure 10

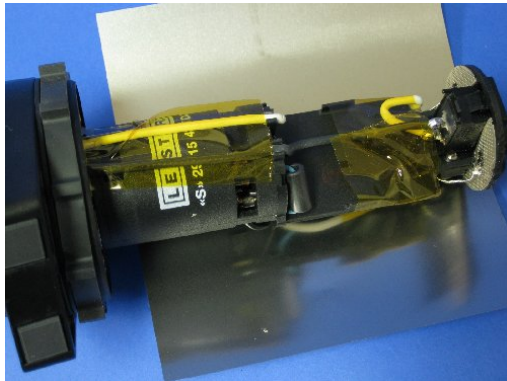


Figure 7



Figure 8



Figure 9



Figure 10

(12) Replace screws. Make sure to add Loctite to screws.

(13) Plug tool into power supply.

(14) Test tool.

If you still have problems with no air call Jono Bixby, 401-683-3199 Ext 1008. Email is [jono.bixby@malcom.com](mailto:jono.bixby@malcom.com)