Hakko 807

Replacing the heating element

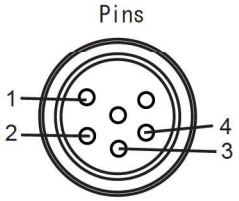

Fig. 1

The resistance values of a working heating element are 9.2Ω between pins 1 and 3 (heating element), and 54Ω between pins 2 and 4 (sensor) at 73℉ (23℃) -fig. 1. If the measured values are outside this range, replace the heating element.
(No. A1174 24V-60W heating element for Hakko 807)

How to replace the heating element ;

1. Unplug the cord.
2. Remove the nut, element cover, nozzle.

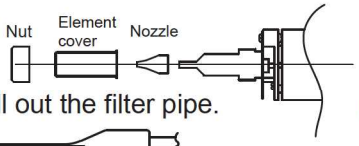

Fig. 2

3. Turn the back holder knob counterclockwize and pull out the filter pipe.
4. Remove the housing fastener.

Fig. 3

5. Remove the screws securing the housing ⑨ and the screws ③ ④ securing the flange to the housing.

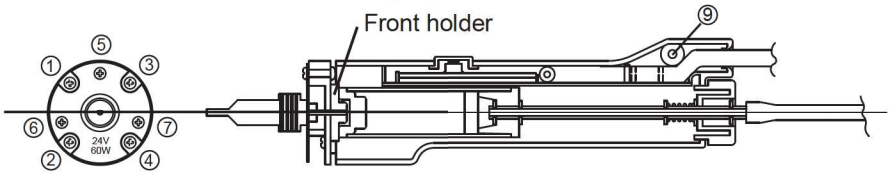

Fig. 4

6. Remove the front holder.
7. Remove the screw ⑤ ⑥ ⑦ securing the heating element to the flange, and the screw ① ②.
8. Desolder the heating element leads (marked H) and sensor leads (marked S).

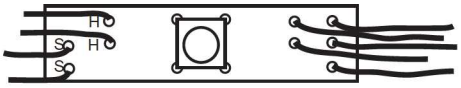

Fig. 5

9. Remove the old heating element and replace it with a new one.
10. Bend the lead wire as figure below, and pass two red leads and two white leads through the holes as shown in Fig. 7. Secure a heating element to the flange with the screws ⑤ ⑥ ⑦.

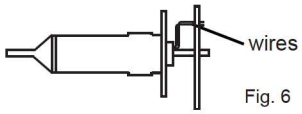

Fig. 6

⚠ Be careful not to twist and pull the lead wire when installing the heating element.

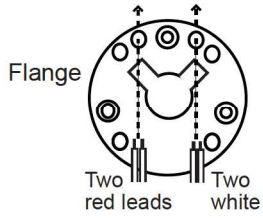

Fig. 7

11. Install the front holder.
12. Resolder the heating element leads (red wires/H) sensor leads (white wires/S).
13. Reassemble the Unit.

⚠ CAUTION
Be sure insulation is properly positioned, when installing as pictured.

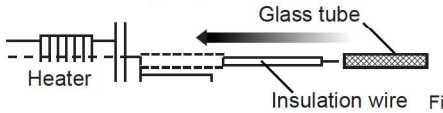

Fig. 8

14. Recalibrate the temperature:
   (a) Set the temperature control knob to 1 and allow the iron to warm up for 3 minutes.
   (b) Adjust the temperature calibrator (CAL) unit the nozzle temperature (measured with a tip thermometer) is 662℉ (350℃).