v1.0 February 20, 2019

CONTROLLER QUICK START GUIDE

1. After reflow has completed, you will need to carefully remove the saw blade from the hot plate and place it on a heat-resistant object or surface so the board can cool down properly. Before beginning the session, know where you are going to put the saw blade, and have hot pads or oven mitts at hand.

2. With everything at room temperature, center the saw blade on the hot plate.

3. Turn the hot plate temperature knob to MAX.

4. Plug the hot plate power cord into the power receptacle on the blue outlet box.

5. Plug the outlet box power cord into a wall power outlet.

6. Connect the SSR control wires coming from the outlet box to the color-matched wires on the controller.

7. Power up the controller from USB or the 9V barrel connector. The 7-segment display will show the default profile "Pb" and the green LED will blink "1".

8. Short press the encoder's push button to cycle through the available profiles until you have the one you want (either Pb or P2 for leaded paste).

9. Place the PC board on the saw blade, avoiding the center hole if possible (reflow will still occur over that hole, but more slowly).

10. Long press the push button (until the buzzer sounds) to begin the reflow process. The red LED will be ON when power to the hot plate is ON. (At any time, you can turn off AC power to the hot plate by pressing the Reset button on the Nano.)

11. When you observe that reflow has finished, carefully remove the saw blade per No.1 above, and let it cool down for a few minutes.

12. Reflow is expected to begin approximately 20 seconds after the power last switches OFF. Temperature will continue to increase for another 80 seconds, and the buzzer will sound at that point, but typically you will have removed the saw blade before then. If reflow has not completed at the buzzer, it probably won't complete.

13. https://github.com/gbhug5a/Reflow-Hot-Plate-and-Controller