

Diagnostics for Skutt Controllers with **RED LED** display

If display reads **"FAIL"** then a new thermocouple is needed. If new T/C does not solve problem then it is an issue within the T/C circuit and will require further diagnostics.

If display reads **"ERR 1"** use the guide below to test elements and relays

NOTE: This process requires opening the kiln while hot and requires adequate safety precautions be taken. Heat proof gloves and full-face protection are required when opening a hot kiln.

1. Ensure kiln is completely empty, elements need to be easily visible
2. We are programming a RAMP/HOLD firing to get the elements glowing hot for visual inspection
 - a. *NOTE: This will overwrite the existing program in whichever bank you use, ensure the customer is aware of this so they can re-program if necessary*
 - b. For KILN SITTERS – ignore steps 3 – 10 and set switches to HIGH and continue on to Step 11
3. Press the **RAMP/HOLD** button, display will show **PROG**. Select a bank (1-6 using the keys) and press ENTER
4. The display will show **SEGS** press "1" and ENTER to set SEGMENT
5. The display will show **RA 1**. Input "9999" and press ENTER to set RAMP
6. The display will show **°F 1** (or °C if using Celsius). Input "1000" and press ENTER to set TEMP
7. The display will show **HLD 1**. Input "1.00" and press ENTER to set HOLD
8. The display will show **ALRM**, Input "9999" and press ENTER to bypass ALARM
9. The display will flash **CPL** once before returning to **IDLE**
 - a. If you are prompted to input info for more segments you've done something wrong and should start the programming over
 - b. It is a good idea to press the **REVIEW** button to confirm the settings before proceeding
10. Press **START** to begin the firing program
11. The kiln will need approximately one hour to get the elements glowing hot for inspection.
 - a. Using safety gear, carefully open the lid of the kiln approx. 2" or enough to see inside
 - b. Visually inspect all of the elements, they should all be glowing if working properly
 - c. 27" Tall (1227, 1027) kilns have six elements across three rings (two elements per ring)
 - d. 22" Tall (1222, 1022, 822) kilns have five elements across two rings (two elements per ring)
 - e. 18" Tall (1218, 1018, 818) kilns have four elements across two rings (two elements per ring)
 - f. 14" Tall (714, 614) kilns have three elements
 - g. GlazeTech kilns have four elements
 - h. FireBox kilns have two elements
12. If **ALL** of the sets of elements in a section are NOT glowing then a relay is the most likely problem
13. If only **ONE ELEMENT** in a section is NOT glowing then the effected element needs replacing
14. Once the inspection has been completed press **STOP** on the controller to end the firing program