If you find yourself in this section of the manual please remember that Skutt and your Skutt Kiln distributor are here to help you as long as you own your kiln. If you are unable to determine the problem, or just need to order parts, please let us know.

Kiln Will Not Start

If there is no display, check to see if the kiln is plugged in and the breaker has not tripped. If there is a display, double check your programming instructions. The kiln must be in Idle Mode to start.

Kiln Will Not Reach Temperature

Make sure the kiln is connected to the proper voltage. After extended use the elements in the kiln wear out and eventually need to be replaced. Look for possible breaks in an element. Elements can break if they are contaminated by bits of glass. If an element is out, it will not glow. Program the kiln to at least 500 °F and look in the kiln to see if any individual elements are out.

Kilns cycle power on and off through relays. If a relay goes out, 1 or more elements in the kiln will not function. Look at the wiring diagram to determine if elements not glowing are connected to the same relay. If they are, chances are that relay needs to be replaced. Skutt recommends to replace all relays at the same time.

Kiln Overfires or Underfires

The thermocouple, which looks like a metal tube protruding into the kiln chamber, measures the temperature in the kiln chamber. As thermocouples begin to wear out, they slowly drift in the direction of an overfire. If you have noticed that your projects have become increasingly overfired, it may be time to change your thermocouple. If you are comparing your results to how they fire in other kilns, it is important to remember that every kiln fires slightly different and it may be necessary to adjust your firing programs.

Kiln Will Not Turn Off

Kilns cycle power on and off through relays. If a relay sticks on, 1 or more elements in the kiln will stay on. Skutt kilns are specifically designed to split the power between 2 or more relays, therefore, the likelihood of a severe over fire is extremely unlikely. Look at the wiring diagram to determine if elements glowing are connected to the same relay. If they are, chances are that relay needs to be replaced. Skutt recommends to replace all relays at the same time.

Error Messages

The following errors may appear in the window of your controller. Along with the error number, the display will indicate the elapsed time in hours and minutes and also the temperature the kiln reached when the error occurred. Please write these numbers down and call your distributor or Skutt Kilns at (503) 774-6000.

ERROR AND DESCRIPTION

E- 0   Software error.

E- 1   *Ramping up and rate is less than 12° per hour. Rise is checked every 7.5 minutes. Rate must persist for 22.5 minutes before error is triggered.

E- 2   *Program in hold, temperature 50° or more above hold temperature. Error must persist for more than 18 seconds before error is triggered.

E- 3   *Program in hold, temperature 50° or more below hold temperature. Error must persist for more than 18 seconds before error is triggered.

E- 4   *Program ramping down and temperature more than 50° above last hold temperature. Error must persist for more than 18 seconds before error is triggered.

E- 5   *Program ramping down and temperature more than 50° below local set point. Must persist for 18 seconds to trigger.

E- 6   Negative reading detected at thermocouple, indicating it is installed or wired improperly.

E- 8   Controller in positive ramp, kiln temperature is ramping down. Negative rate must persist for 22.5 minutes to trigger error.

E- 9   Wrong thermocouple hardware or software setting.

E- A   Invalid program variable

E- D   *Kiln temperature 50 F above traveling set point.

E---   Power loss while controller is processing information.

ErrP   Informational error message: . When it flashes, a brief, noncritical power outage has occurred. The controller was able to resume firing and the load of ware is not in danger. It continues to alternately display with the internal temperature until you press Enter.

PF   Displays at the time the kiln is initially powered up. Press Enter to clear the message and the internal kiln temperature will flash. Also displays when power was lost during a firing and the kiln temperature was below 140F (60C) or the kiln temperature dropped more than 250 degrees during the power outage.

STUc   A key on the touch pad is stuck in the pressed position.

FAIL   System cannot sense thermocouple.

* These codes will be turned off if "ERCd" is toggled to "OFF". See page 19 for details.

There are additional, less common, error codes that may be displayed. All of the unlisted codes will begin with "E-". Write them down and contact a Skutt technician.