ORO ALL ELECTRIC ROASTERS:
BURNER TESTS

Here are some things to check if you have not done so to be sure that the Electric adjustment knob is the cause of your issues.

Sometimes when an electric roaster has issues it may effect one parts ability to work properly but it may or may not be the part that is effected that is actually the problem. The 4-5 main components of the electric burner system are discussed below and ways to check them both visually and with a voltage meter to see what is wrong:

1. The Electric Burners- Visually Check Electric burner coils to ensure none have broken
2. Relay (Pictures and test below)
3. ELECTRIC POWER ON/OFF SWITCH (GREEN SWITCH)
4. Voltage Adjustment knob (turns up/down voltage to burners to increase/decrease heat)
5. Schneider Electric **LC1D32** current contactor

Below are some tests you can perform or have your electric technician check. It is always best when possible to take readings with a voltage meter on each part to see if part is defective.

For example: Once turning on machine your tech can check that the proper voltage is going to the on/off green heat power switch. Next they can check that voltage is increasing as you turn up the heat knob (Voltage adjustment knob) - Test both volts going into control and coming out of control as you increase heat. You can also check the voltage both going into and out of each part while operating equipment.

IMPORTANT: have a skilled certified tech do this work as touching the wrong wires on components can result is shock of 220V

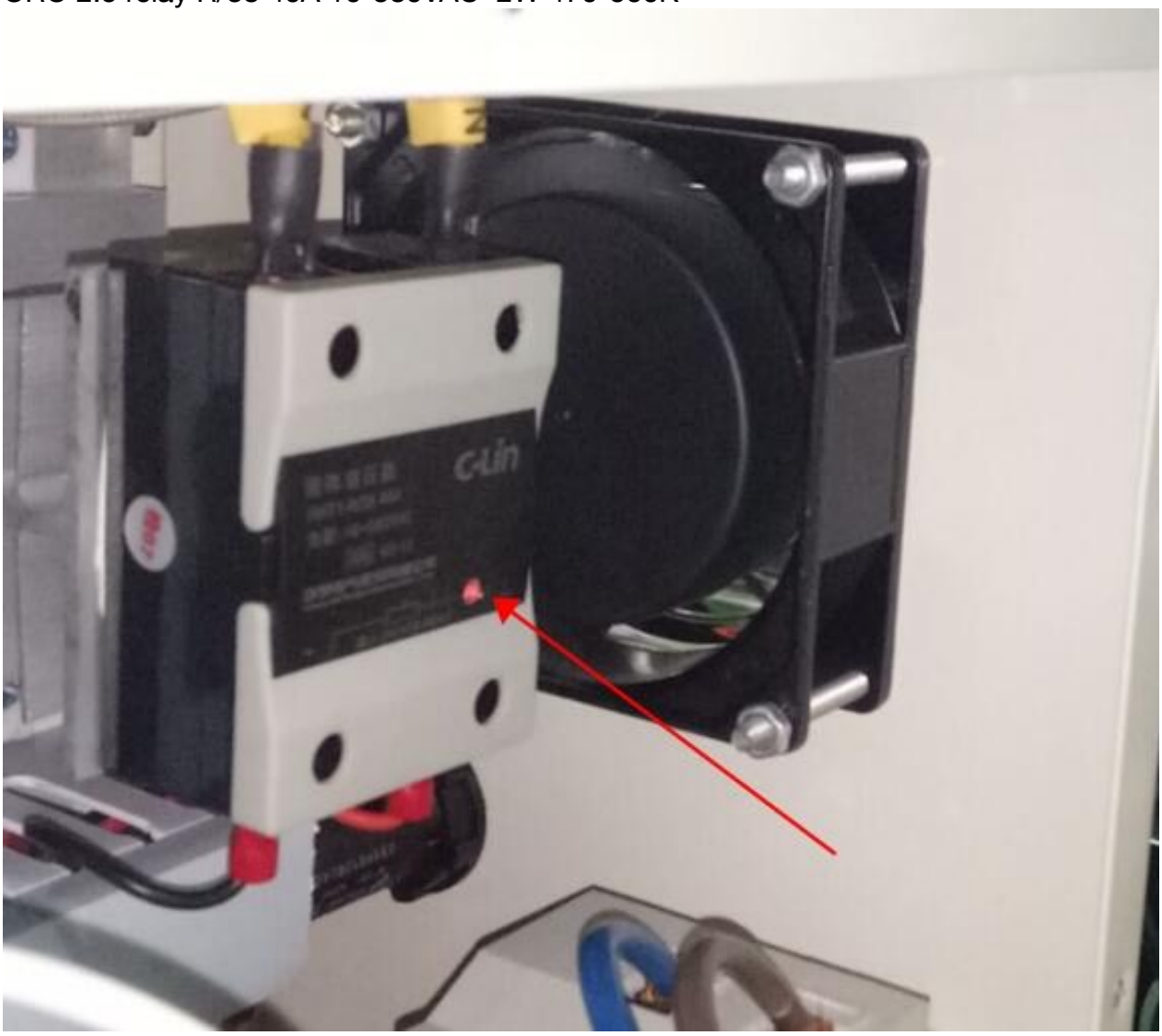
HERE ARE SOME SIMPLE TESTS THAN CAN BE PERFORMED IF YOU HAVE NOT HAD A CHANCE TO GET YOUR TECH TO TEST VOLTAGE OF COMPONENTS:

TESTS WITH RELAYS & SCHNEIDER CONTACTOR:

Open up the electric room of machine, then with machine on adjust the heat knob on it, and when you turn the value on the knob lower , the light becomes more bright, and

the value on knob is turned up and the light comes darker, this means, the votage regulater (which control the heating elements) works well.

Here is a picture of voltage meter:
ORO 2.5 relay R/38 40A 10-380VAC 2W 470-560K



If that works well then the next test is to take a amperage reading on the wires attached to burner. Voltage on heat adjustment or voltage knob should be turned up most if not all the way. The voltage should read at least 17 amps. If it does not read at least 17A then likely the burners are going bad and need replaced.

One method for checking the alternating current contactor is listen to the sound of the GREEN heating power switch from attached video, if the sound is same as the video's, that means the alternating current contactor is working properly.

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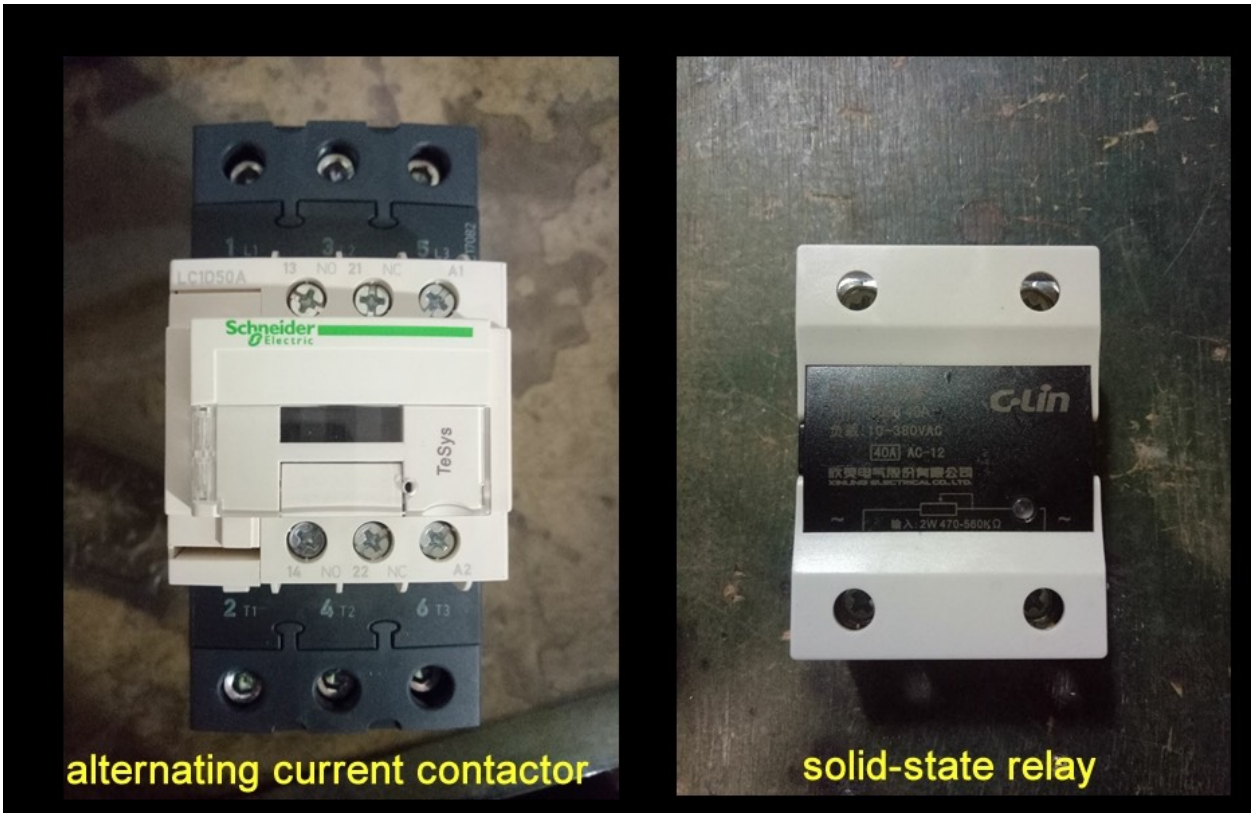
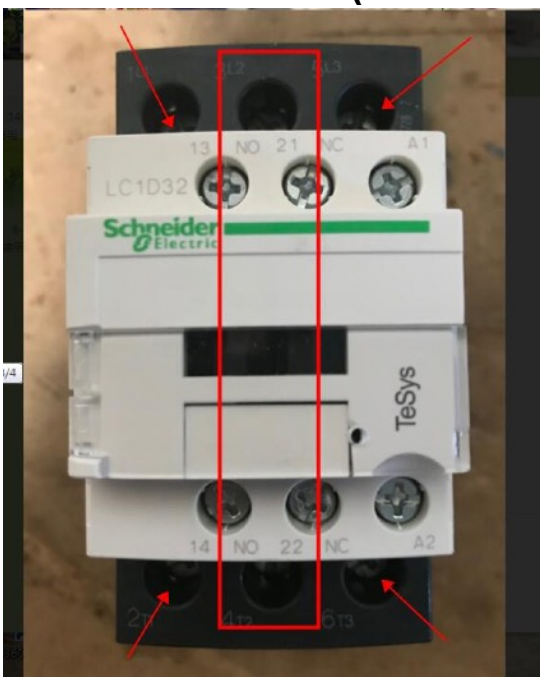


In some cases Factory may request photos & videos of issue, if you can take some photos or videos that will help to find out the problem.

ORO electric tests: (TECH WITH VOLTAGE METER)



Schneider Electric LC1D32 3 pole contactor:

TO TEST:

turn on green power switch then test this with a voltage meter:

Use multimeter test two points which circled above (arrows)

If one does not have voltage then move the wire connection to middle

And test. if both of them have no electricity voltage , that means this relay is broken

REPLACING PARTS: There are PDF's and in some cases videos on the TECH page at http://www.buckeyecoffee.com/tech-support.html if you need help installing a part or you can email

TECH@BUCKEYECOFFEE.COM

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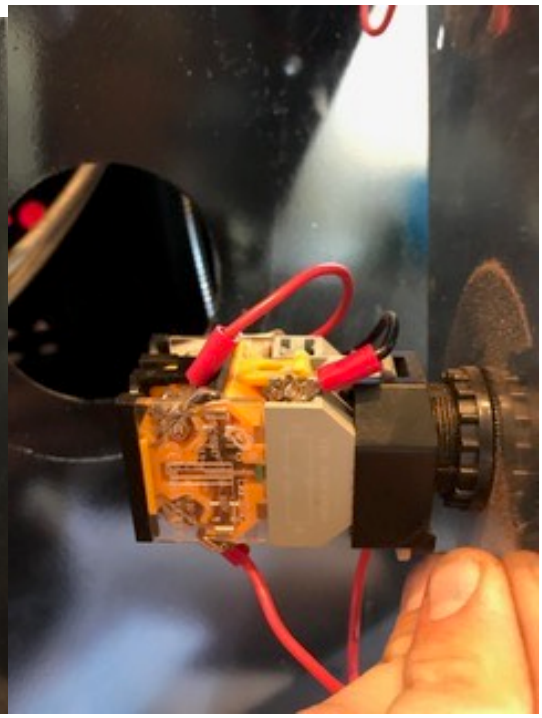
Heat adjustment knob for ORO 2.5 & 5:

Green on/off switch:



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RELAY LIGHT:

It would appear if light does not go out on relay as seen in video below then the locator or governor (HEAT ADJUSTMENT KNOB) that turns heat up and down may have gone bad. One way to know for sure is do a voltage or amp test from wiring after the control knob.

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HEAT (VOLTAGE) ADJUSTMENT KNOB:

Electric heat control for PHOENIX MODELS:

1-2kg. ORO 2.5-5 (RV24YN 20S B254 119C 321)

3kg ORO 8 (RV24YN 20S B504 168C 321)

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ORO ALL ELECTRIC BURNER: (MODEL EXAMPLE BELOW FOR ORO 5)