
PREHEAT ENGINEERING LIMITED



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Testing procedure for non-working DS, GS, T, D & DW, heaters and various Peregrine coolant heaters and elements up to 3000 watts x 230 volts and 1500 watts x 115 volts (sorry if method is obvious)

- 1). Check mains supply to heater is on.
- 2). Remove connector box, then turn power back on (CAREFUL as LIVE). Check that you have power by placing one meter probe on the pin where the blue wire is connected and the other probe to the brown wire where it enters thermostat. If you do not have power then check your supply. If you do have power then:
- 3). Leaving probe on the element pin which is connected to the blue wire, move the other meter probe to the other side of the thermostat (red wire/s) and check again, switching the thermostat up and down. The thermostat should click faintly and should switch ON when temperature setting is raised. If this does not happen, replace the thermostat. If it switches, then:
- 4). Turn power off and remove all wires from each element. See drawing below. Elements run from left to right in each case. Using Megger, check one pin of each element to earth. The reading should be in excess of 1Megohm and will most likely be considerably in excess of that figure. If the reading is a dead short (very low reading) there is a problem with the element. If reading is above 1MegOhm, then:
- 5). Using a standard Ohm meter, check reading across each element. The reading should be between about 5 and 140 Ohms depending on wattage and voltage of the unit. If the reading is infinity or zero then again there is a problem with the element.

If you have ANY queries, please do not hesitate to contact us for advice and help.

