BBQ FAULT FINDING GUIDE

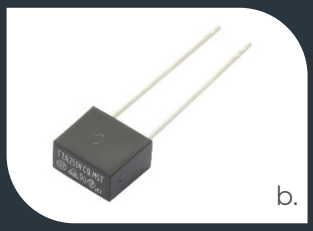
FURPHY
FOUNDRY EST. 1864

INITIAL OPERATING INSTRUCTIONS AND FAULT FINDING GUIDE – BBQ

1. Controller Assembly

- The controller assembly connects to a 240V power supply via a step-down transformer protected by a fuse.
- If the fuse blows, the controller loses power and becomes inoperative.
- An optional LED indicator can be connected to the assembly, showing the availability of power and operational status.
- Note that this indicator does not guarantee the safety of handling the assembly.
- There are two types of fuses: Leaded (with legs) and SMT/SMD (surface mount device/ technology). The original fuse body has been replaced by a leaded type and, more recently, a surface-mounted white ceramic fuse.
- If the LED indicator does not light up when power is applied, disconnect the controller from the 240V supply and perform a continuity (ohmic) measurement on the fuse. An audible sound should be heard; otherwise, the fuse is blown.

Types of fuses



a. Original fuse body
b. Leaded fuse
c. Surface-mounted white ceramic fuse

Continuity (ohmic) measuring

2. Fuse Continuity Check

- Visual Inspection LED: ON / OFF
- Ohms Value: _____ Ω
- Audible Sound Check on Multimeter: YES / NO

3. Relay Check

- If the relay is energized and the armature is closed but the hot plate remains cold, disconnect the 240V power supply and check the following:
- Ensure the relay contact points are not burned out.
- Verify the wiring to the heating element is intact.
- Perform an ohmic continuity measurement on the heater element.

4. RCD Dropout Check

If the RCD drops out when the relay is energized:

- Inspect the 240V wiring for damage.
- Check the element heater for leakage to protective earth and, if necessary, replace the element assembly.

5. Thermocouple Assembly Check

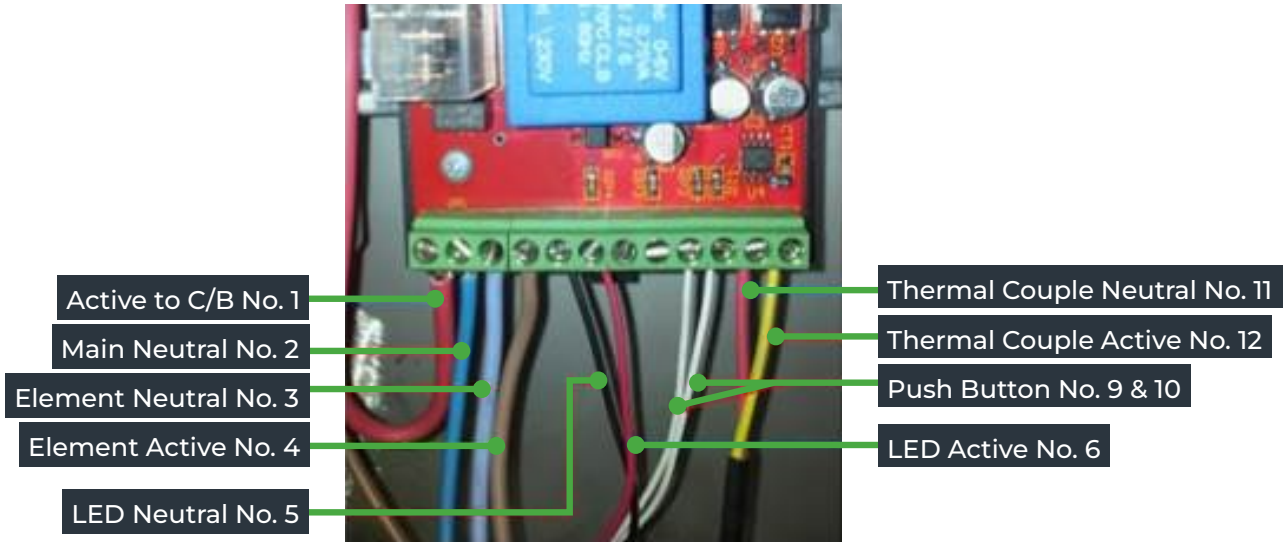
If none of the above faults are found, assess the condition of the thermocouple assembly.

- Broken wires in the assembly can cause the controller to shut down.
- Conduct an ohmic continuity test on the thermocouple.

6. Element

To access the element:

- Remove the IP64 front casing by unscrewing the 4 Phillips head screws.
- Remove the control box cover by pushing in the 2 tabs on the sides with a flat-head screwdriver.
- Press the ignition button, and once the green light comes on, check for voltage at Element Neutral No. 3 and Element Active No. 4 (as shown in the image).
- If no voltage is present, the issue lies in the control box (FFSKB004 - Electrical Control Panel).
- If voltage is detected at these elements, the element has likely failed (FFSKB002 - Electrical BBQ single element, including cable).



7. Controller Temperature Adjustment

To adjust the temperature up, turn pot clockwise.

- Don't place any pressure on pot. This will turn contact in controller on.
- LED in controller will come on.
- One full turn is Approx. 20 degree Celsius.
- When you have adjusted and BBQ hotplate gets to temp. Contactor will pull out,
- And LED will go out. The BBQ will cool down approx. 10 degree Celsius.
- Then it will pull back in and start its heat cycle again.
- You will find that this should heat up more from your adjustment.
- Simply turn pot anticlockwise to fine tune. This only needs to be very minimal. For example - quarter of a turn.

Please note: All BBQ's hotplate temperatures are factory set, we do not recommend adjustment, in doing so this will void your warranty.