Heating element and mounting kit installation manual

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Heating element and mounting kit installation manual

Duration: 15 minutes

This manual explains how to install your heating element in a kettle using the BrewPi heating element mounting kit.

Warning: always consult a qualified electrician to install your heating element and to connect it to your control panel. Always use a ground fault protected outlet or include a GFCI/RCD in your control panel.

Parts

- Kettle (please check the element will fit your within your) diameter.
- Cable 2.5mm²
- Heating element
- Enclosure kit, which consists of:
  - Cable gland
  - Enclosure Body
  - Enclosure lid
  - Locknut
  - Eye lugs 3x
  - Red O-ring (size 218)
  - Thin white washer (silicone)

Tools

- Wire strippers
- Crimp tool or pliers
- Philips screwdriver
- Adjustable wrench (40mm)
- 1¼ hole punch
- Hand held Drill (low speed, high torque)
- Metal cutting drill bit (9.5 mm, cobalt head for stainless steel recommended)
- 8 mm (5/16") alan key
- Optional: hammer and centre punch to guide drill bit.
Legend

- Brown: Live
- Green/Yellow: Ground
- Blue: Neutral

Preparation: Cable stripping and eye lugs

1. Strip cable jacket 5cm
2. Shorten brown (live) and blue (neutral) to 3cm
3. Strip all 3 wire insulation 7mm
4. Crimp 3 eye lugs to wires, pull on them to test that they are fastened well
1. **Screw cable gland into enclosure lid**

2. **Screw brown wire (live) to the element**

3. **Bend eye lug 90°**

4. **Screw blue wire (neutral) to the element**

5. **Again, bend eye lug 90°**

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**Do not tighten** cable gland pressure dome yet! This is the very last step...
6. Remove thick gasket that came with the heating element. It is not used.

7. Place thin white gasket inside the housing.

8. Insert element through the housing.

9. Screw grounding eye lug to housing with short bolt (M4).


11. Drill a 9.5mm pilot hole and punch a hole in your kettle with 1¼ hole punch (31.75mm). It is recommended to cool your drill with oil or running water.
Fill kettle with water. Check for leaks for at least 15 minutes.

Screw lid onto housing first, then tighten cable gland dome. Congrats, you are done.

Screw on locknut. Tighten enough to flatten kettle wall.

Insert element through kettle.