

# Heating element and mounting kit installation manual

VERSION: 001  
LAST MODIFIED: 14-09-2016

Feedback on this guide is very welcome! Please send it to [support@brewpi.com](mailto:support@brewpi.com)

**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 2.5mm<sup>2</sup>
- 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

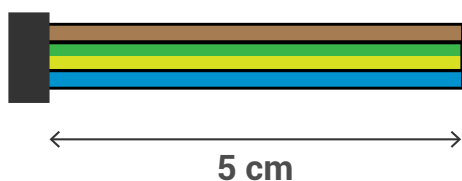
- Wire strippers
- Crimp tool or pliers
- Philips screwdriver
- Adjustable wrench (40mm)
- 1 ¼ hole punch
- Hand held Drill (low speed, high torque)
- Metal cutting drill bit (9.5 mm, cobalt head for stainless steel recommended)
- 8 mm (5/16") allen key
- Optional: hammer and centre punch to guide drill bit.

## Legend

	Brown	Live
	Green/Yellow	Ground
	Blue	Neutral

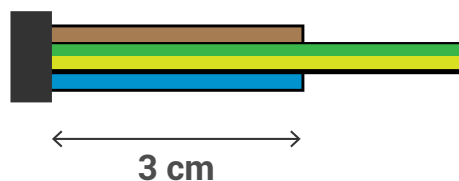
## Preparation: Cable stripping and eye lugs

1



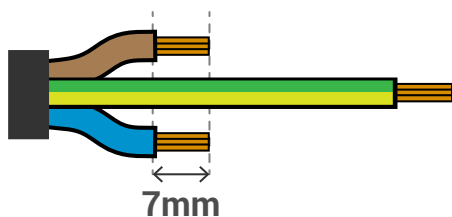
**Strip** cable jacket 5cm

2



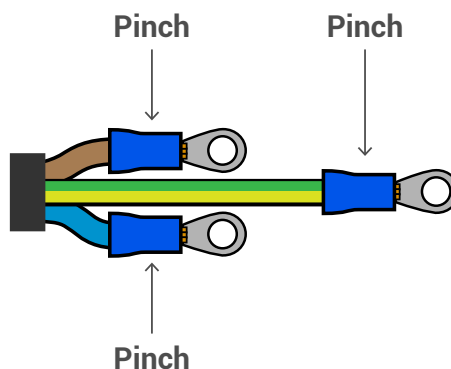
**Shorten** brown (live) and blue (neutral) to 3cm

3



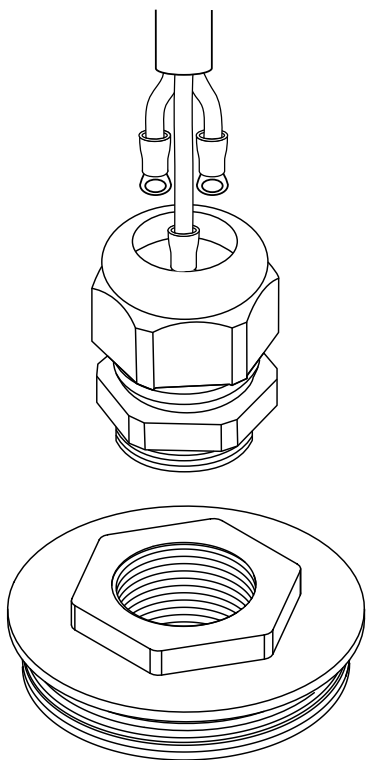
**Strip** all 3 wire insulation 7mm

4



**Crimp** 3 eye lugs to wires, pull on them to test that they are **fastened well**

1



**Screw** cable gland into enclosure lid

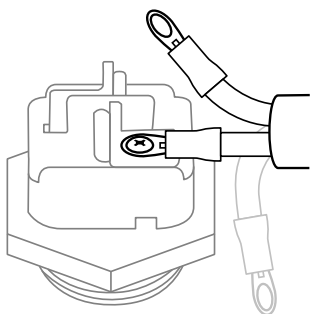


**Insert** cable through cable gland



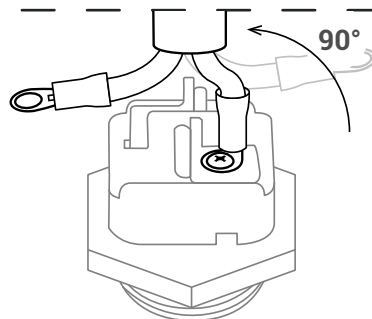
**Do not tighten** cable gland pressure dome yet! This is the very last step...

2



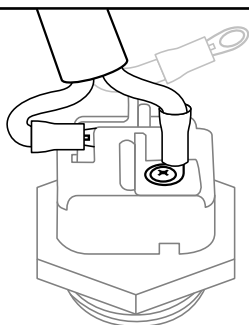
**Screw** brown wire (live) to the element

3



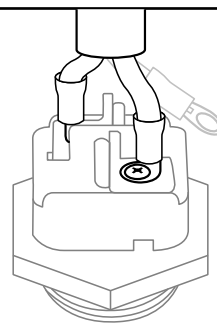
**Bend** eye lug 90°

4



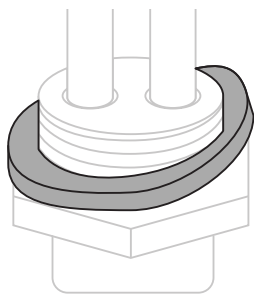
**Screw** blue wire (neutral) to the element

5



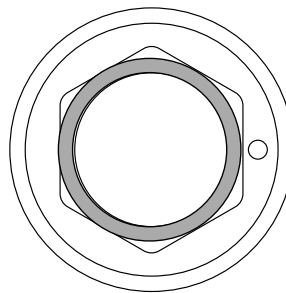
**Again, bend** eye lug 90°

6



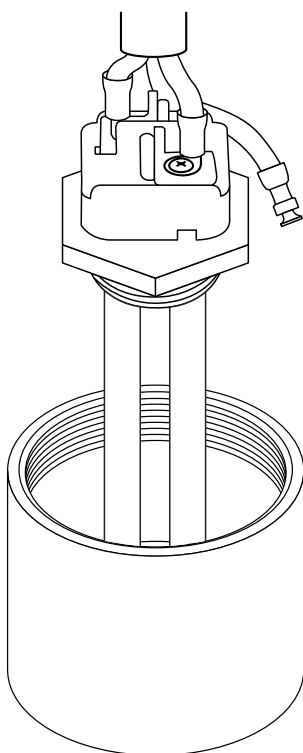
**Remove** thick gasket that came with the heating element. It is not used.

7



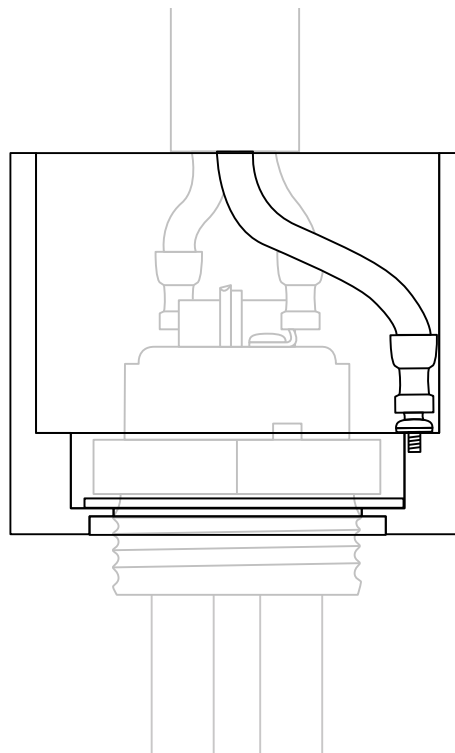
**Place** thin white gasket inside the housing

8



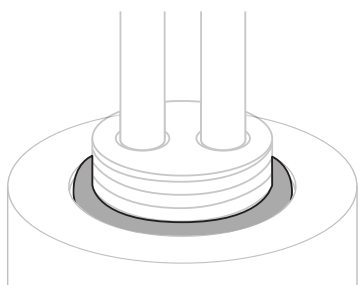
**Insert** element through the housing

9



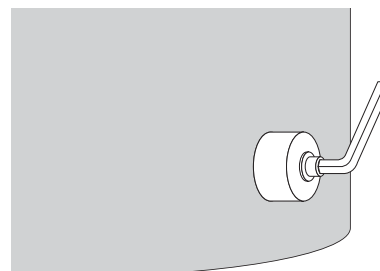
**Screw** grounding eye lug to housing with short bolt (M4)

10



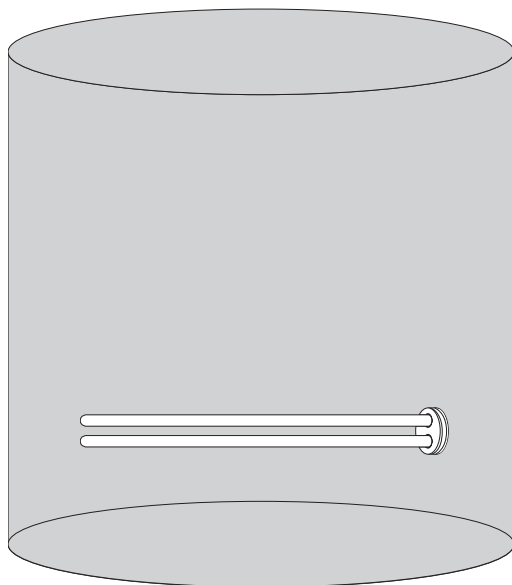
**Put** Red ring O-ring (size: 218) around thread of element. It will press against the kettle to seal.

11



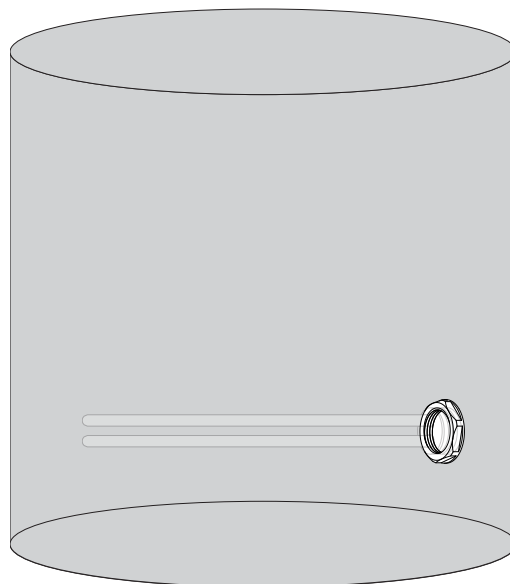
**Drill** a 9.5mm pilot hole and **punch** a hole in your kettle with 1 ¼ hole punch (31.75mm). It is recommended to cool your drill with oil or running water.

## 12



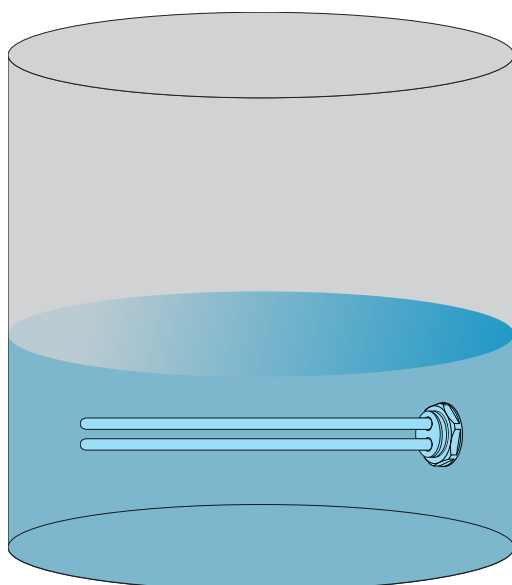
**Insert** element through kettle

## 13



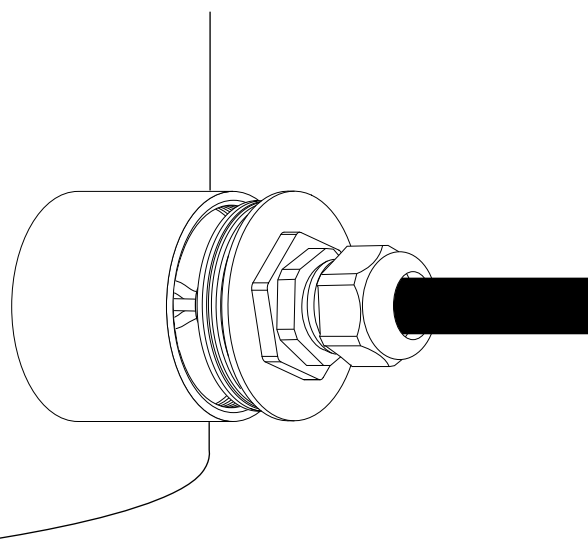
**Screw** on locknut. Tighten enough to flatten kettle wall.

## 14



**Fill** kettle with water. Check for leaks for at least 15 minutes.

## 15



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