

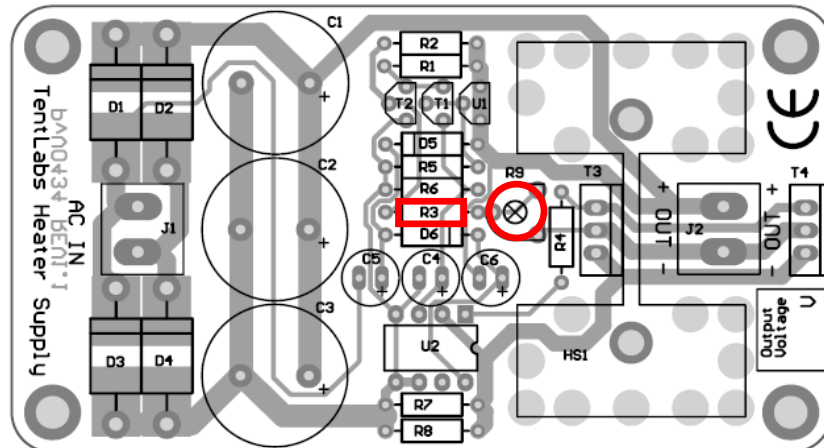
## TentLabs Heater supply voltage adaptation instructions

**This procedure describes how to adapt the Heater supply for different output voltages.**

- 1 - Removal of resistor R3
- 3 - Selecting new value
- 3 - Mounting of new resistor
- 4 - Inspection and Check

### 1 - Removal of resistor

- Locate R3 using layout below
- Turn PCB around and de-solder the resistor using litze



### 2 - Selecting new R3 value

- Select the required voltage and derive the value for R3 using below table. Please note that:
  - All versions can be modified to a higher output voltage
  - Modules with output voltages above 4V cannot be modified to a lower voltage

Voltage	R3 value	Voltage	R3 value
1.5V	0	5.0V	1800
2.5V	1200	6.3V	2200
3.5V	2700	7.5V	3300
4.0V	3300	10.0V	4700

- The tolerance of the resistor is not critical (10% is OK)

### 3 - Mounting of new resistor

- Bend the resistor leads at the correct pitch
- Mount the resistor
- Rotate the board and cut the wires such that about 0.5 mm sticks out of the board
- Solder both wires to their pads

### 4 - Check and adjustment

- Visually check the soldering and watch for eventually left solder particles
- Turn potentiometer R9 fully counter-clockwise
- Mount and reconnect the module in the circuit
- Switch on the supply and check the voltage across the filament terminals. This should be slightly below the target
- Let the circuit stabilise for at least 1 minute. Optimise the required filament voltage, adjusting R9
- Repeat for other channel(s)

Happy listening,

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