

#### Calibration:

(the board is calibrated before shipping. If you want to calibrate it again please follow the instruction of calibration)

You need to calibrate the high voltage BEFORE installing Geiger tubes. The HV calibration steps are:

1. Trim R100 potentiometer to approximately 50 ohm when kit power is off.
2. Connect positive Tube Clip to pins (J4) with a jumper wire.
3. Connect multimeter black probe to any GND point



4. Connect multimeter probe after J2 point



5. Set your multimeter on 200V DC range.
6. Power up the device (PCB washed and IC555 installed).
7. Adjust voltage with R100 to 6.5V if you use 1M multimeter or adjust the voltage 57V if you use 10M multimeter. Use formula:  $V_{out} = V_{read} * ((60M + R_{voltmeter}) / R_{voltmeter})$

R100 is the 1000Ohm potentiometer.

