

ASSEMBLY MANUAL

JULY 2016

EXTRADRIVE - (A)SYMMETRIC OVERDRIVE EFFECT PEDAL
ORDERCODE: K8111



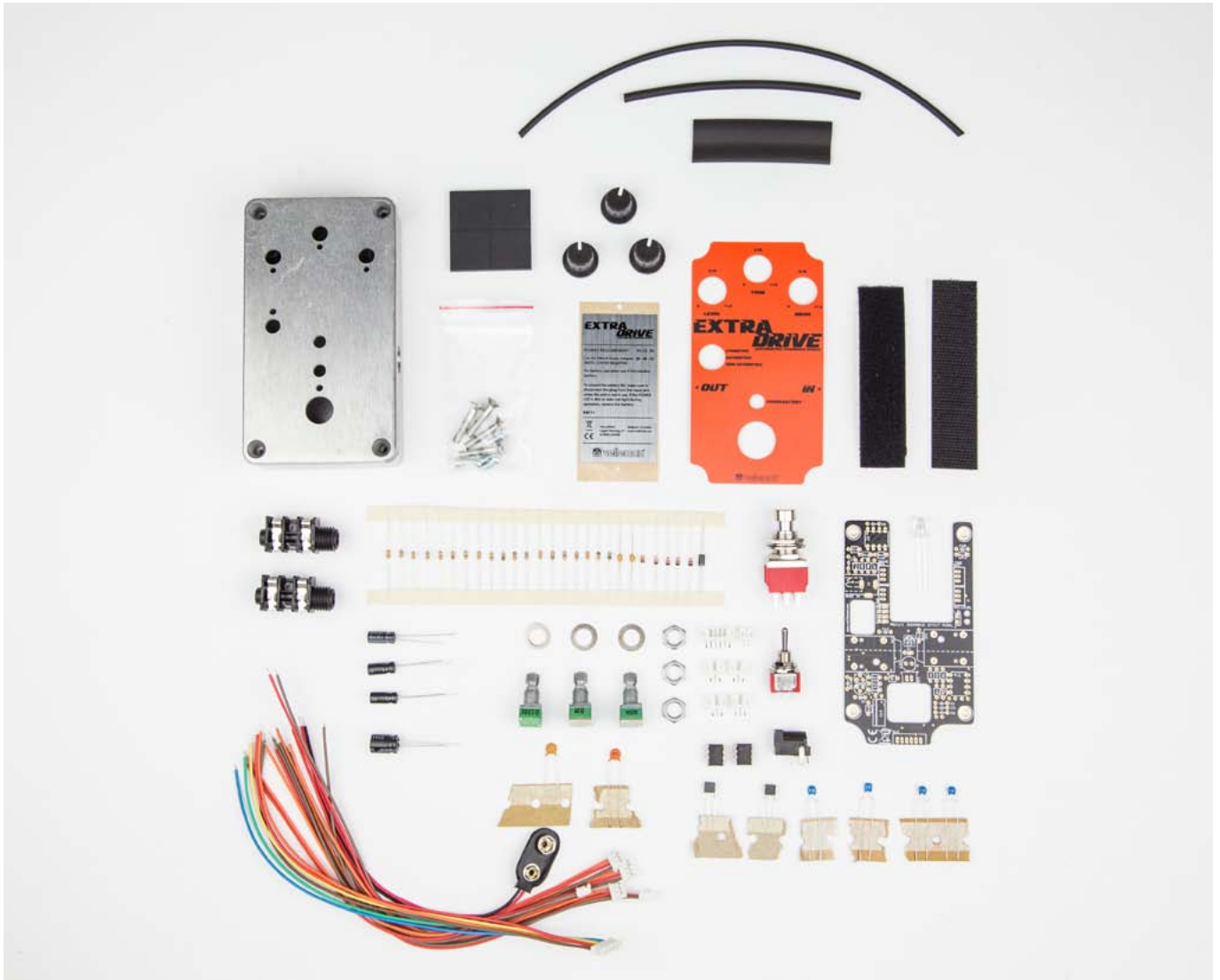
Table of contents

What's in the box	3
Assembly instructions	4

Let's get started!



WHAT'S IN THE BOX



ASSEMBLY INSTRUCTIONS

1. Place the 2 supplied cover stickers as shown in the images below. **Note the orientation of the bottom cover!**



2. All components are placed in the correct order of usage on the supplied tape.

Resistors: R1 to R19

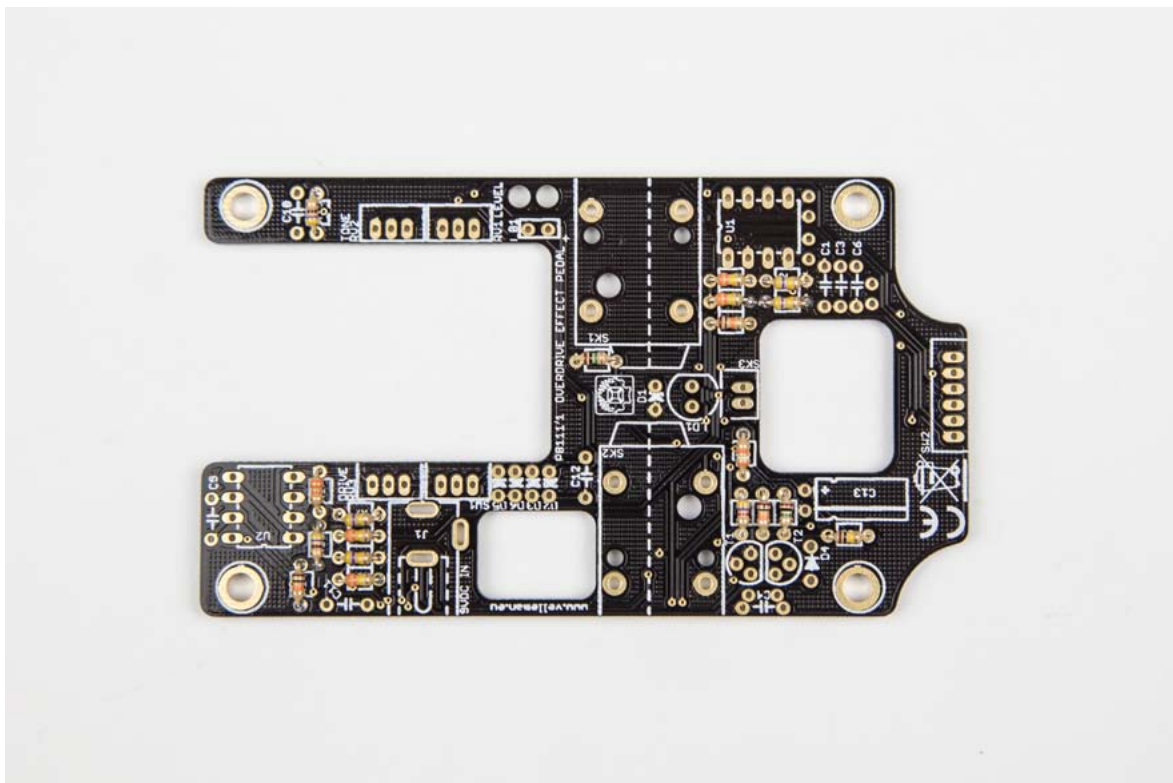


Tape order:

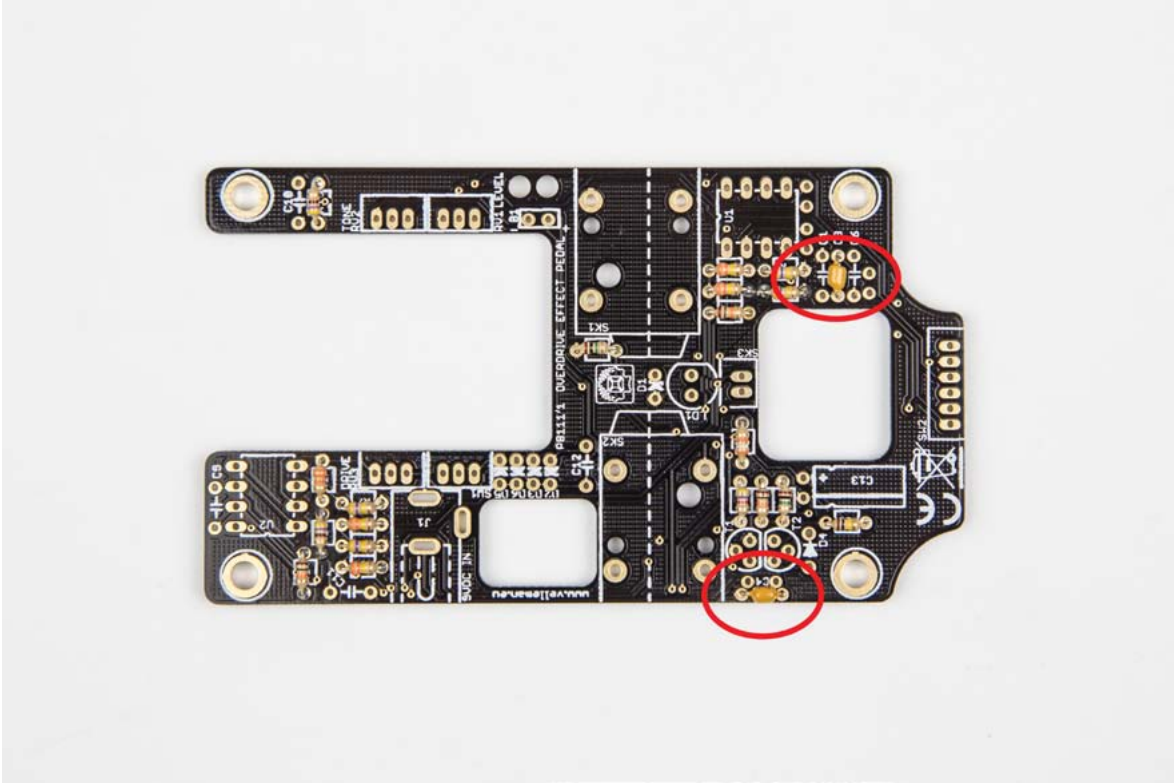
R1:330K
R2:470K
R3:330K
R4:470K
R5:390E
R6:10K
R7:470K
R8:330K
R9:470K
R10:1M
R11:10K

R12:4K7
R13:330K
R14:10K
R15:470E
R16:470E
R17:33K
R18:100K
R19:1M
C3:104
c4:104
ZD1:3V3
D2:1N4148
D3:1N4148

D5:1N4148
D6:1N4148
D4:1N4007

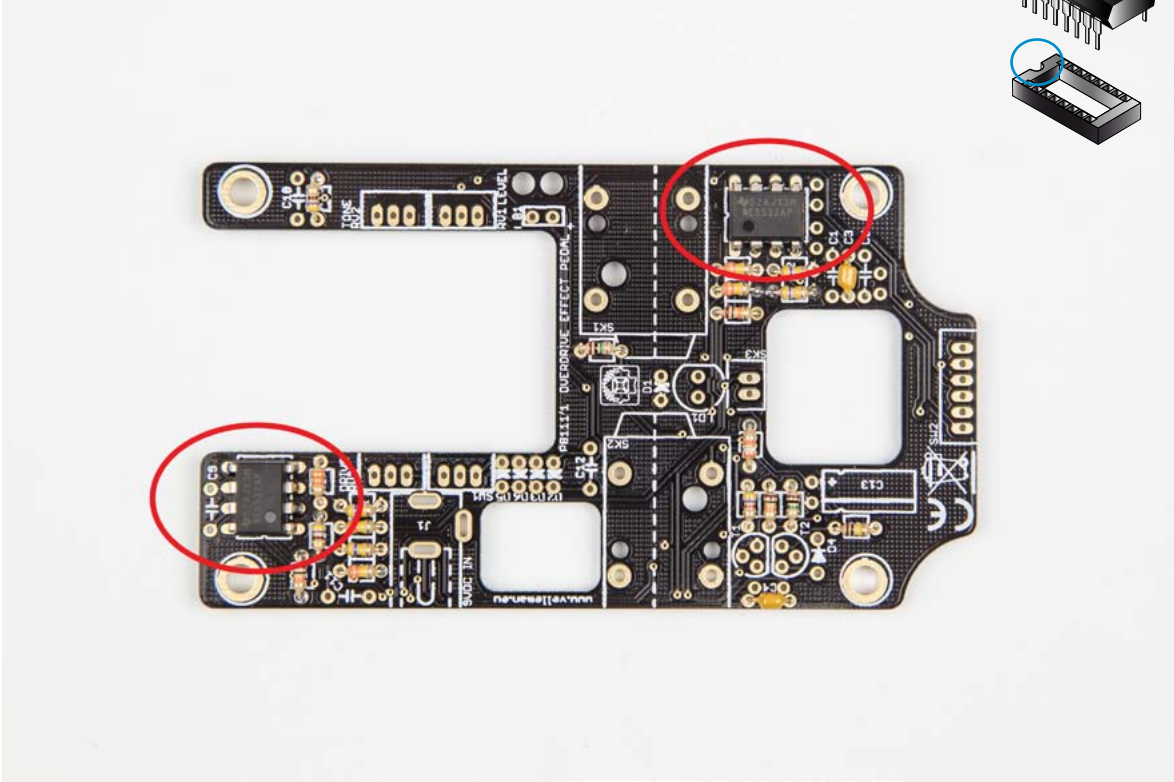
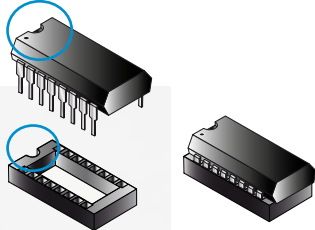


3. 100 μ F axial capacitors: C3, C4



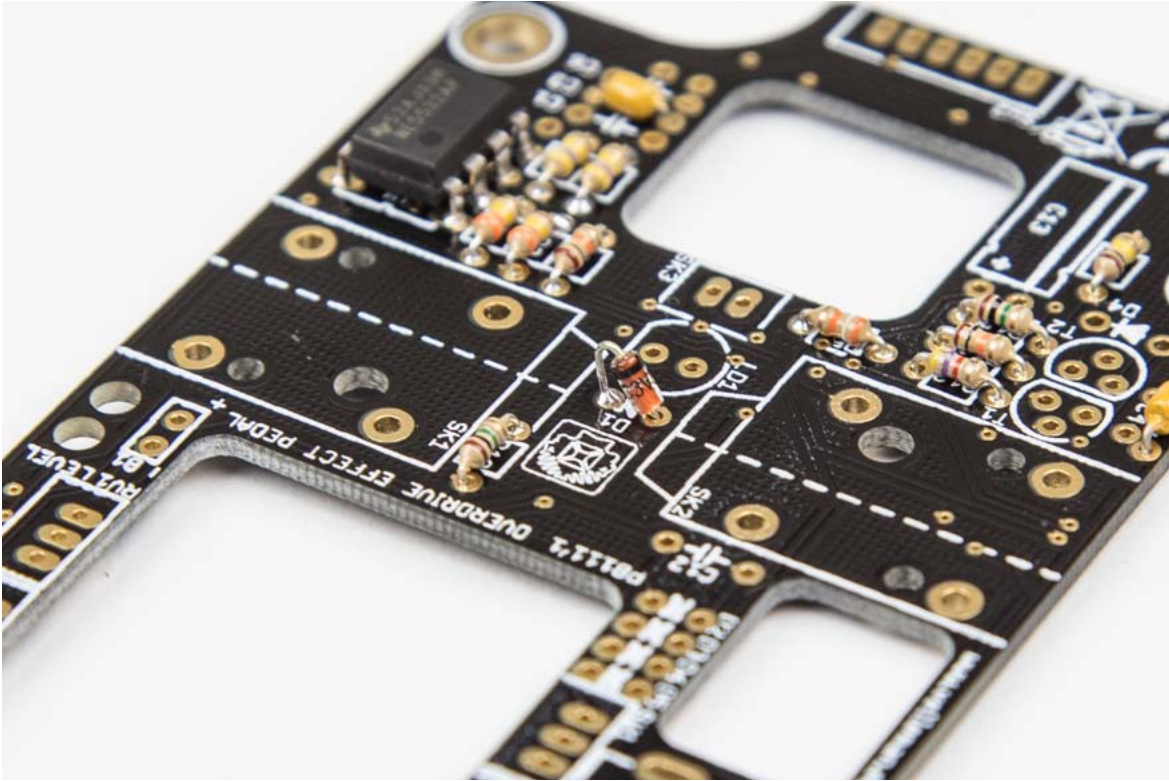
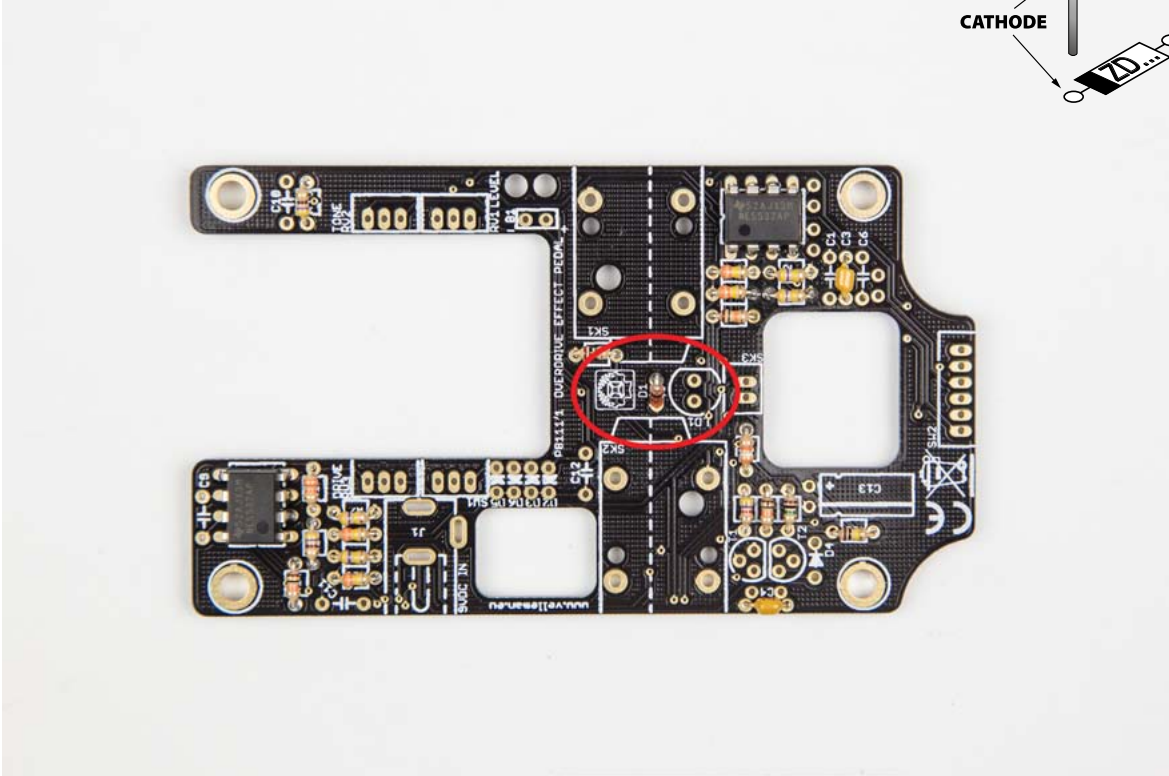
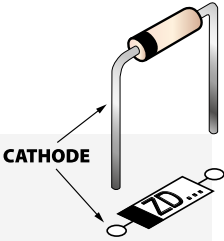
4. 2 x IC: U1 and U2

Note the orientation of the IC's!



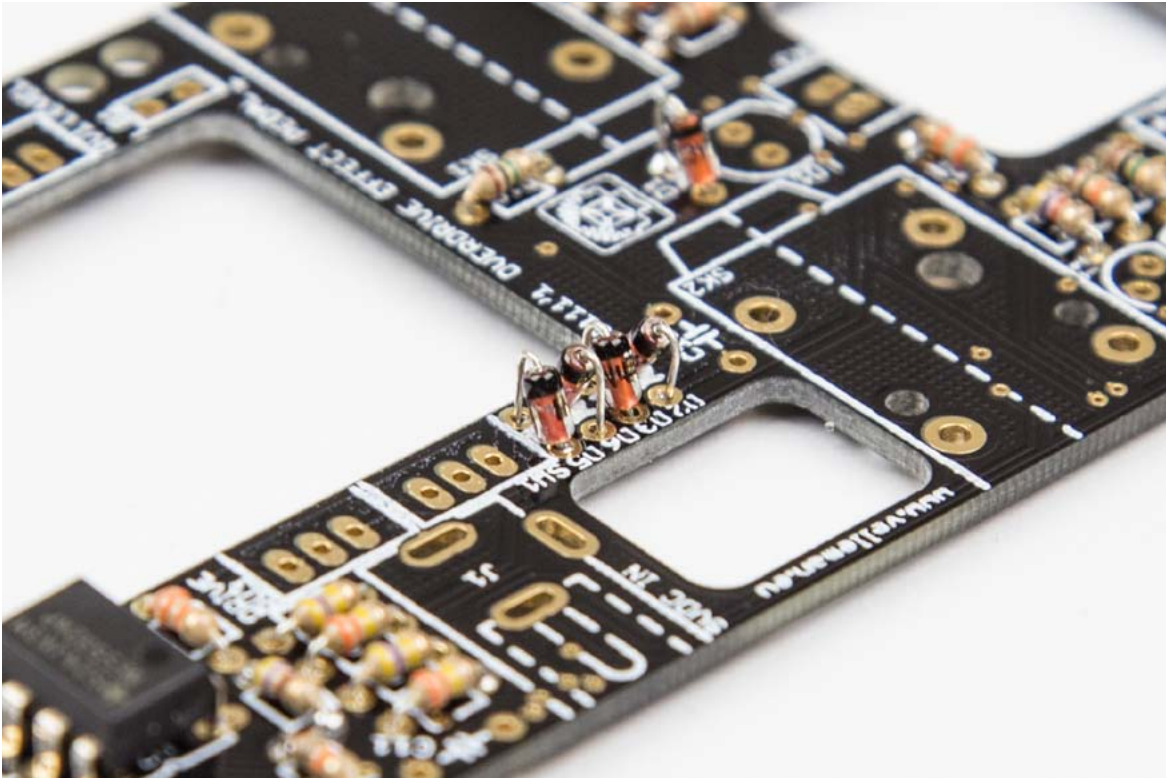
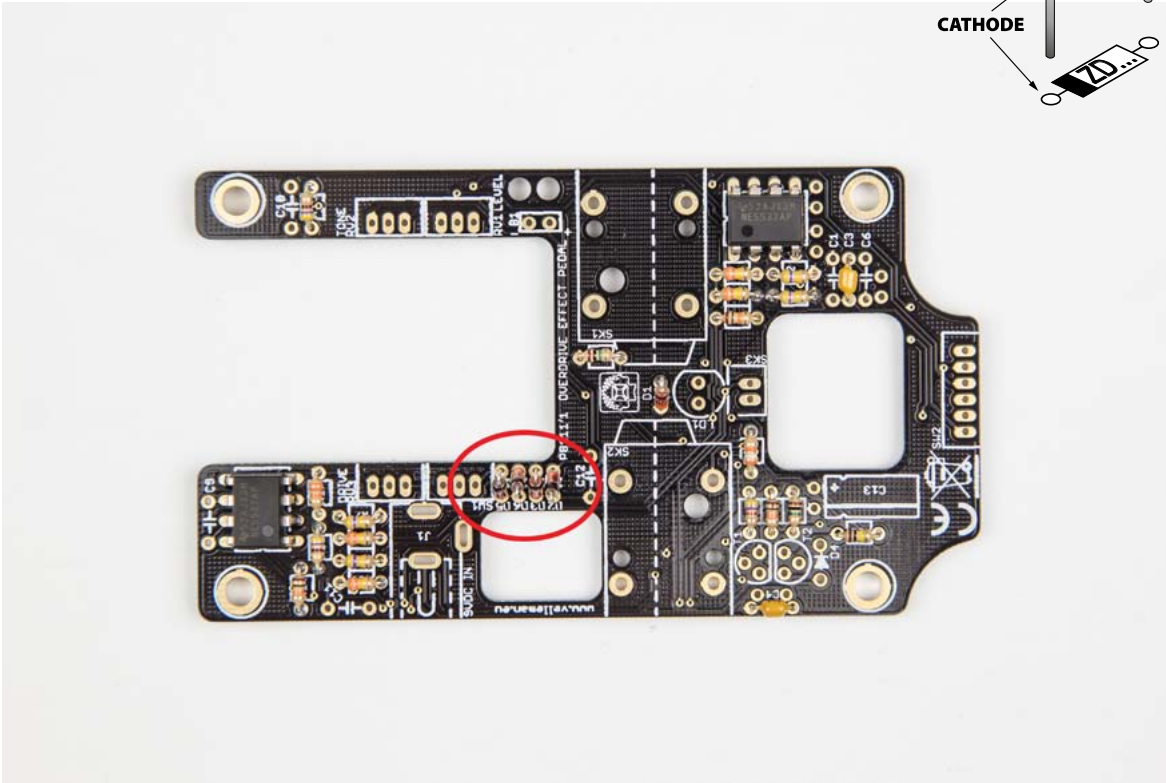
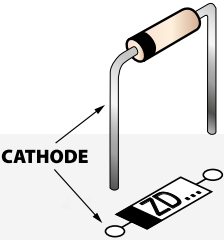
5. Zenerdiode: ZD1

Note the orientation of the zenerdiode!

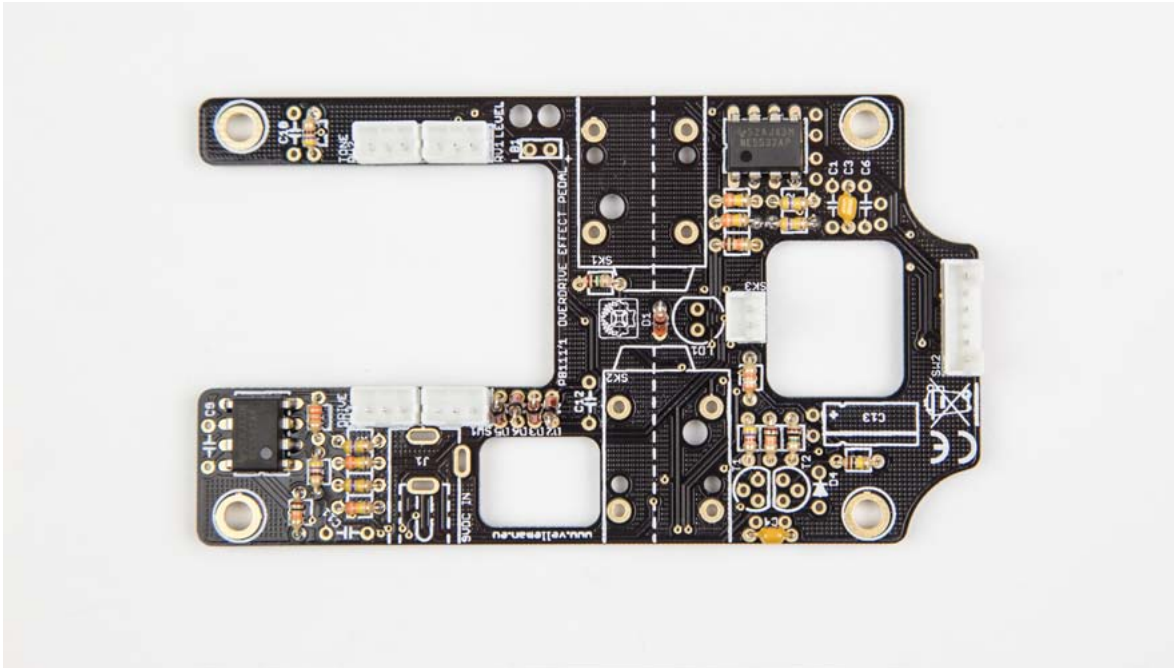


6. Diodes: D2, D3, D5 and D6

Note the orientation of the diode!

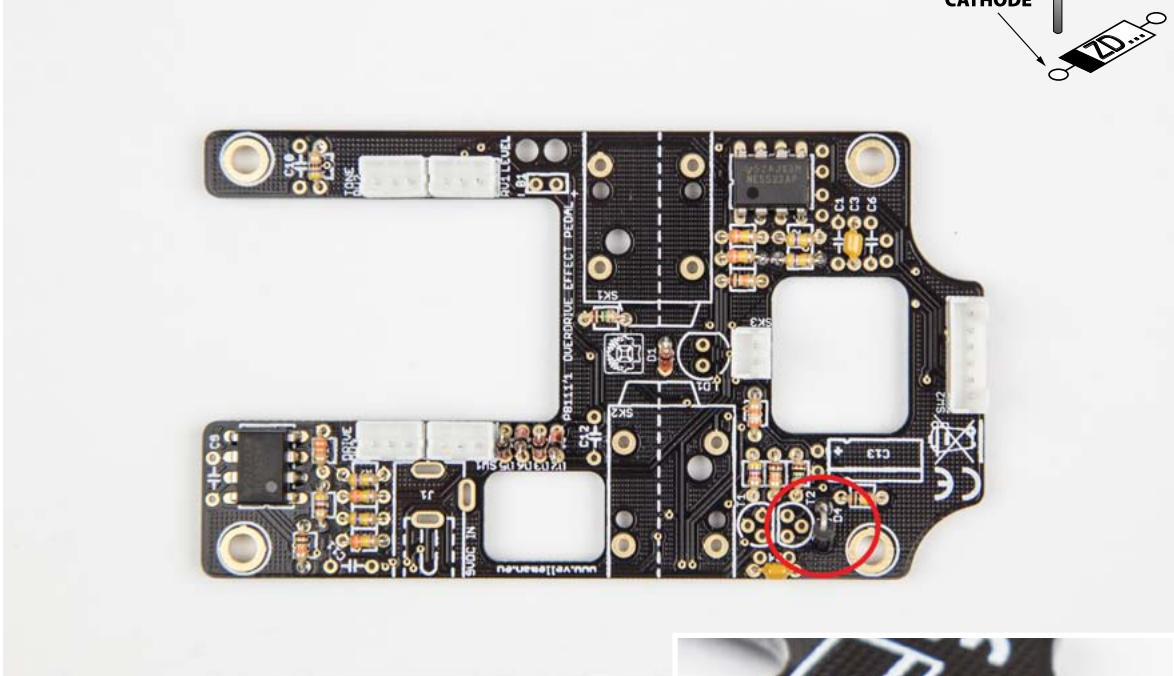
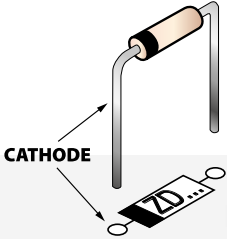


7. Male connectors: SW1; SW2, RV1; RV2, RV3 and SK3

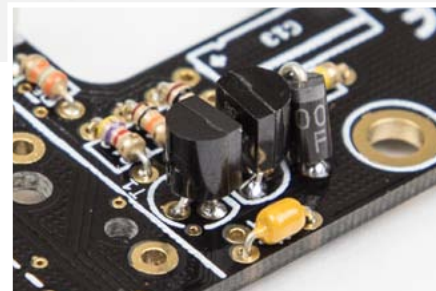
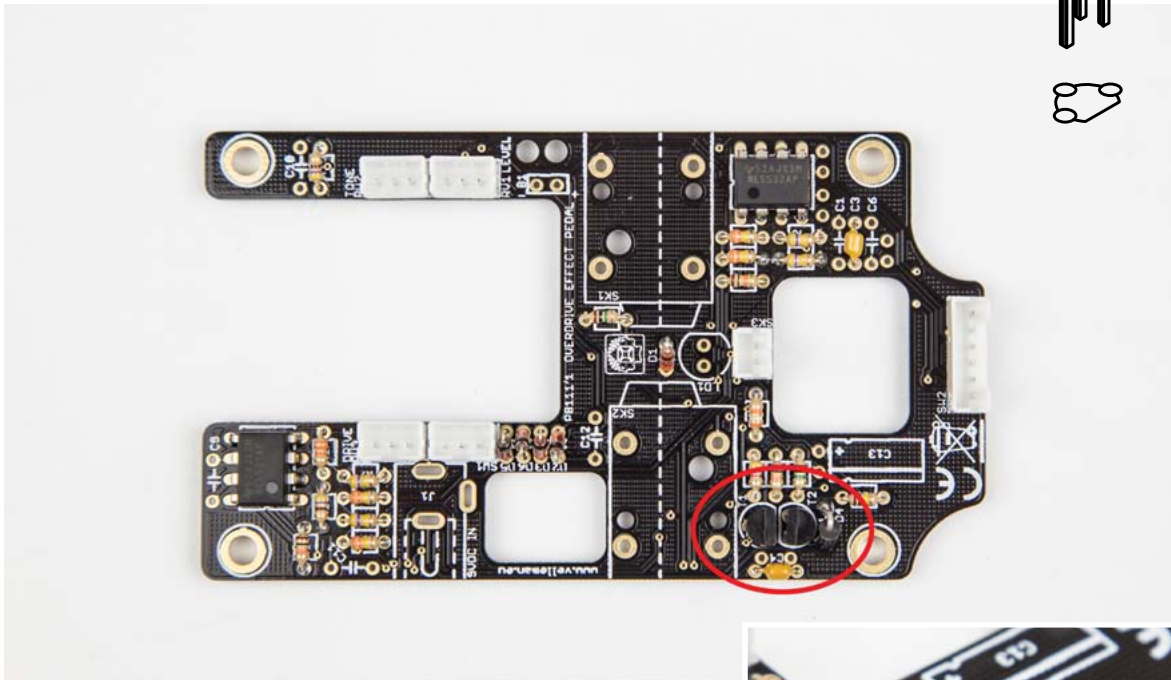
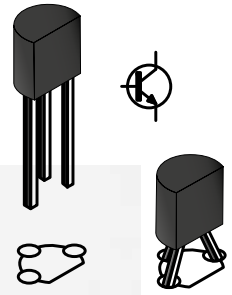


8. Diode 1N4007: D4

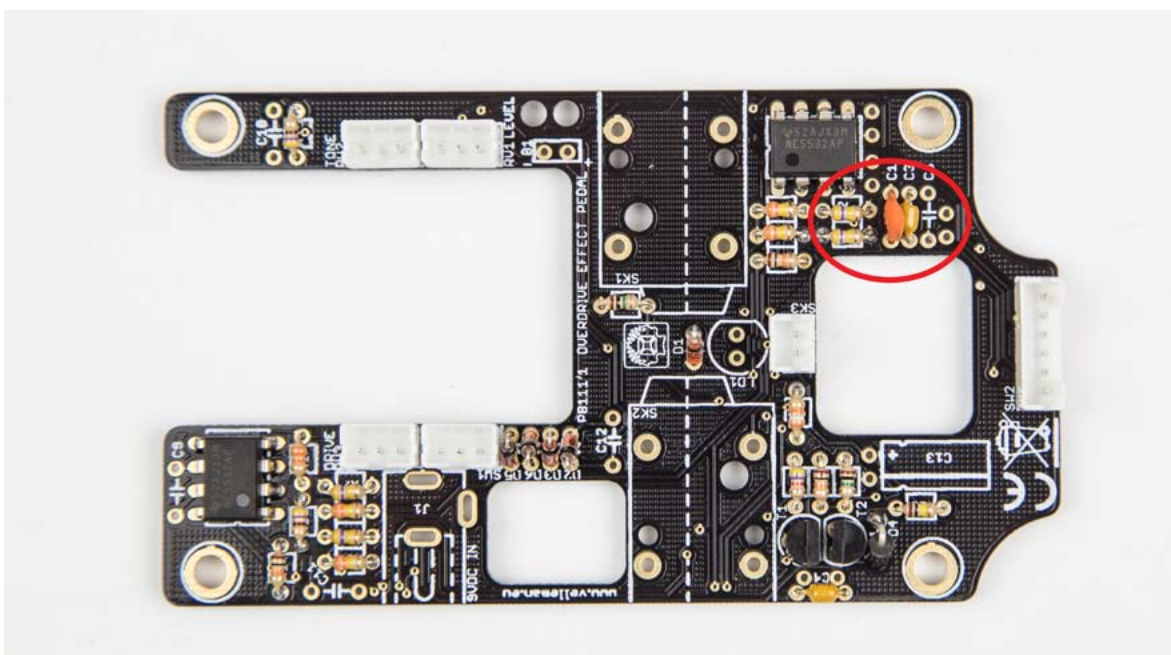
Note the orientation of the diode!



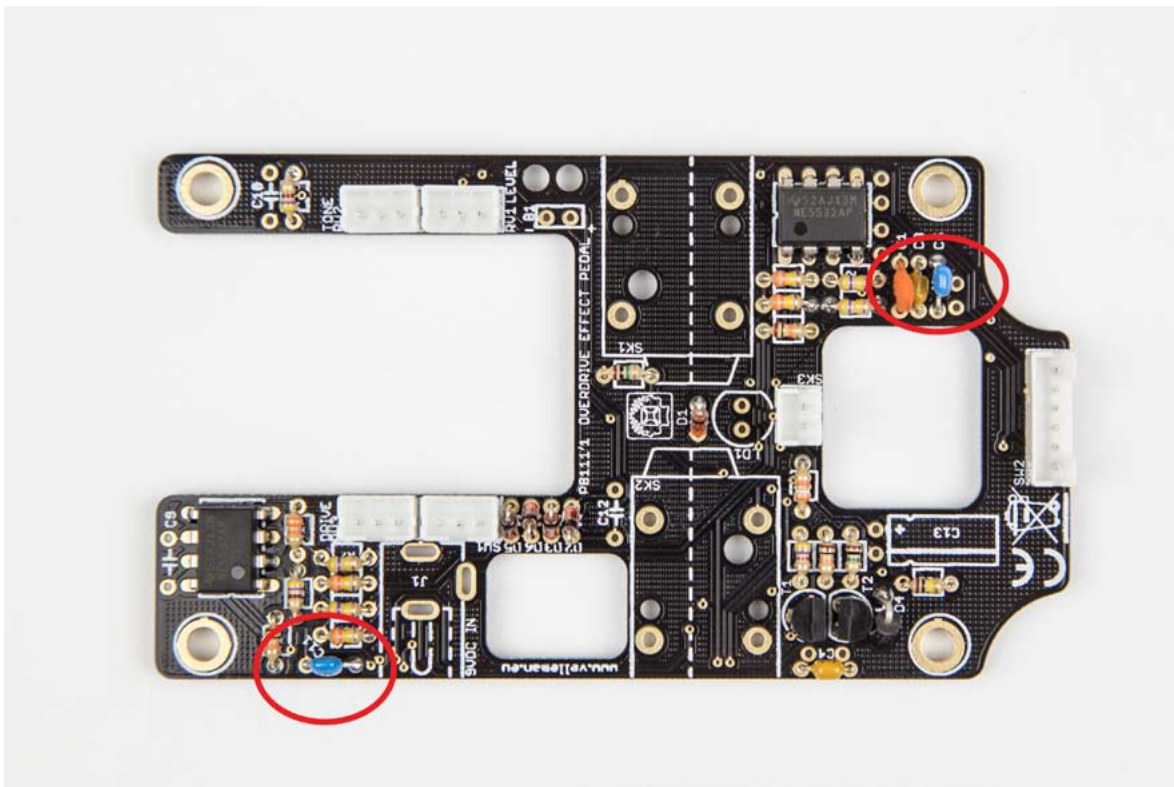
9. BC547: T1
BC557: T2



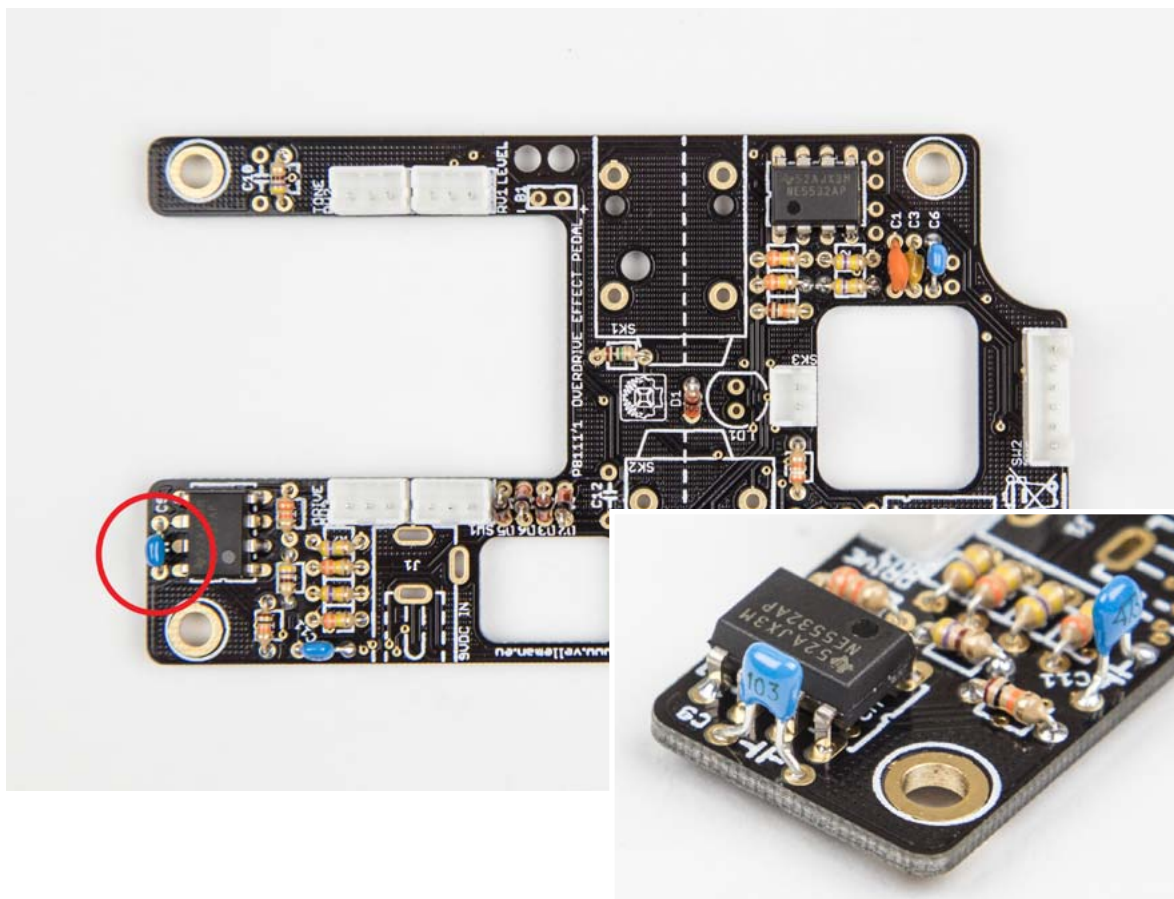
10. Capacitor 471: C1



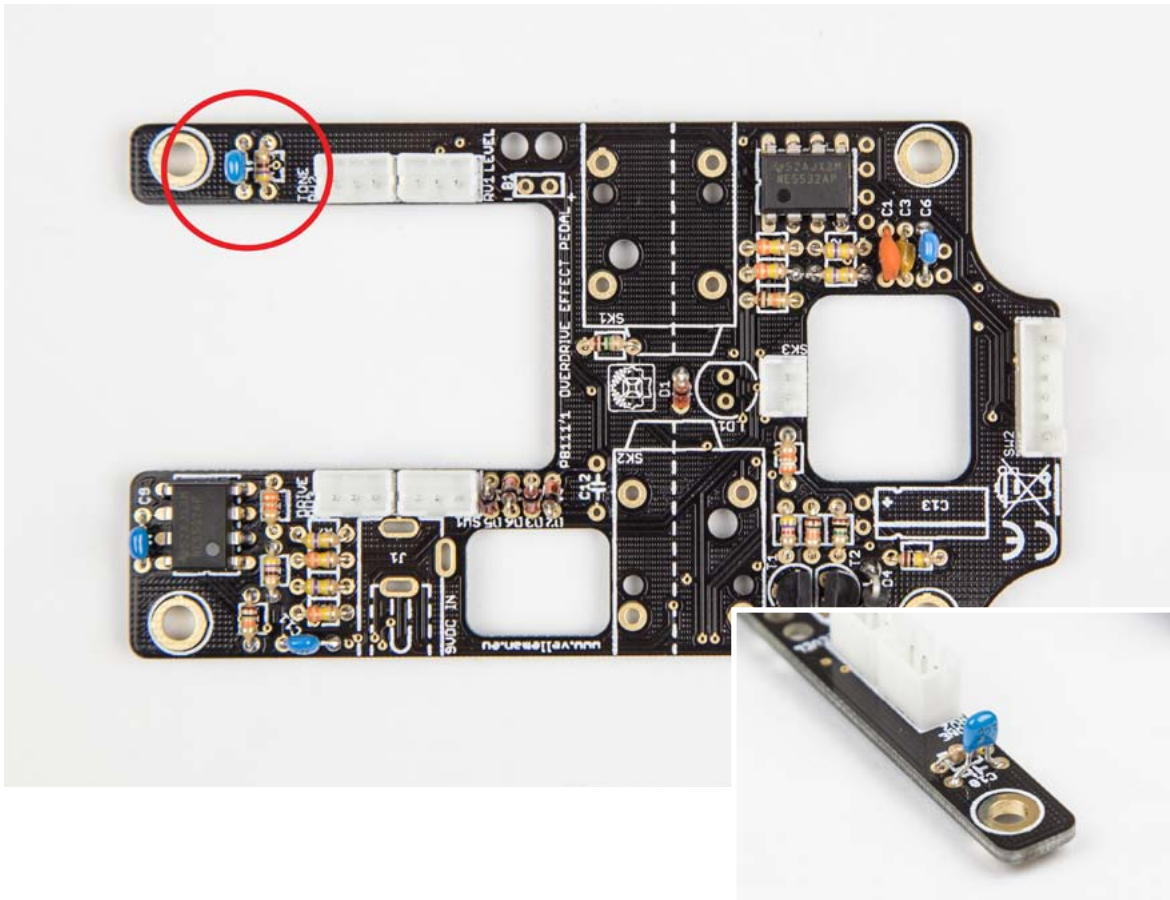
11. Capacitor 473: C6 and C11



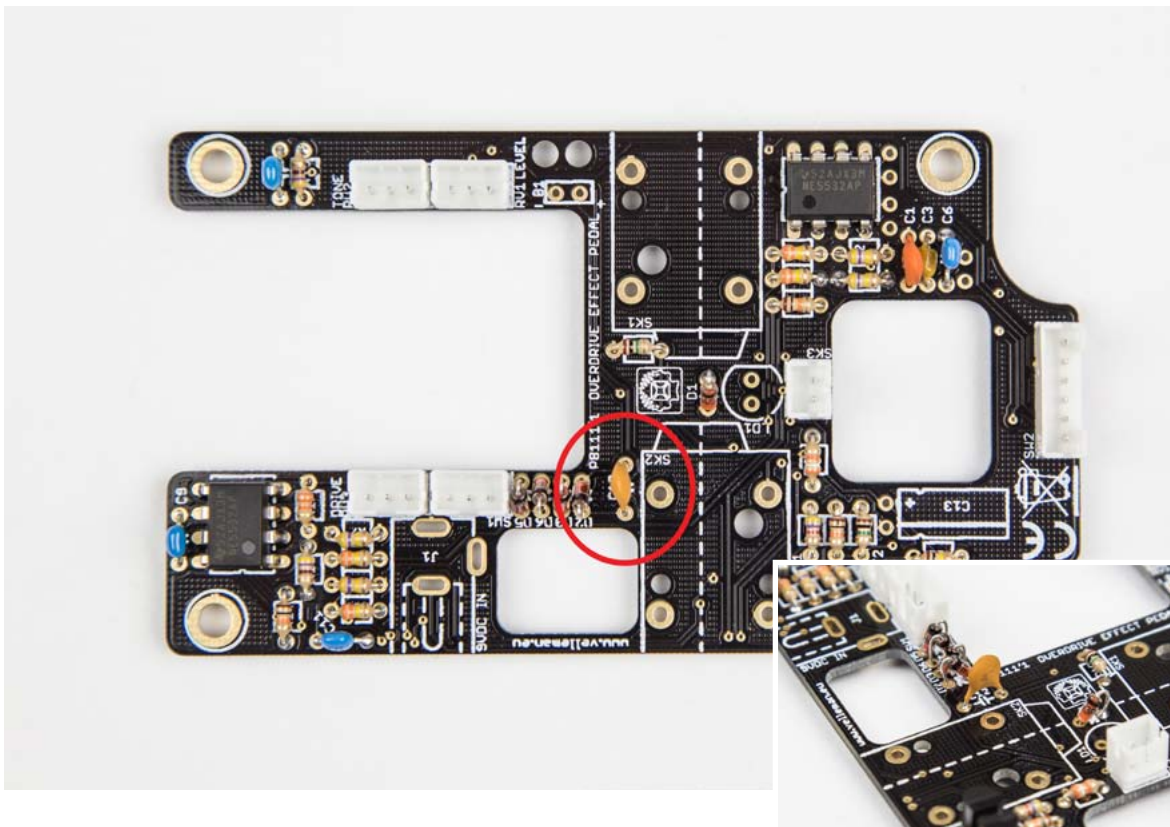
12. Capacitor 103: C9



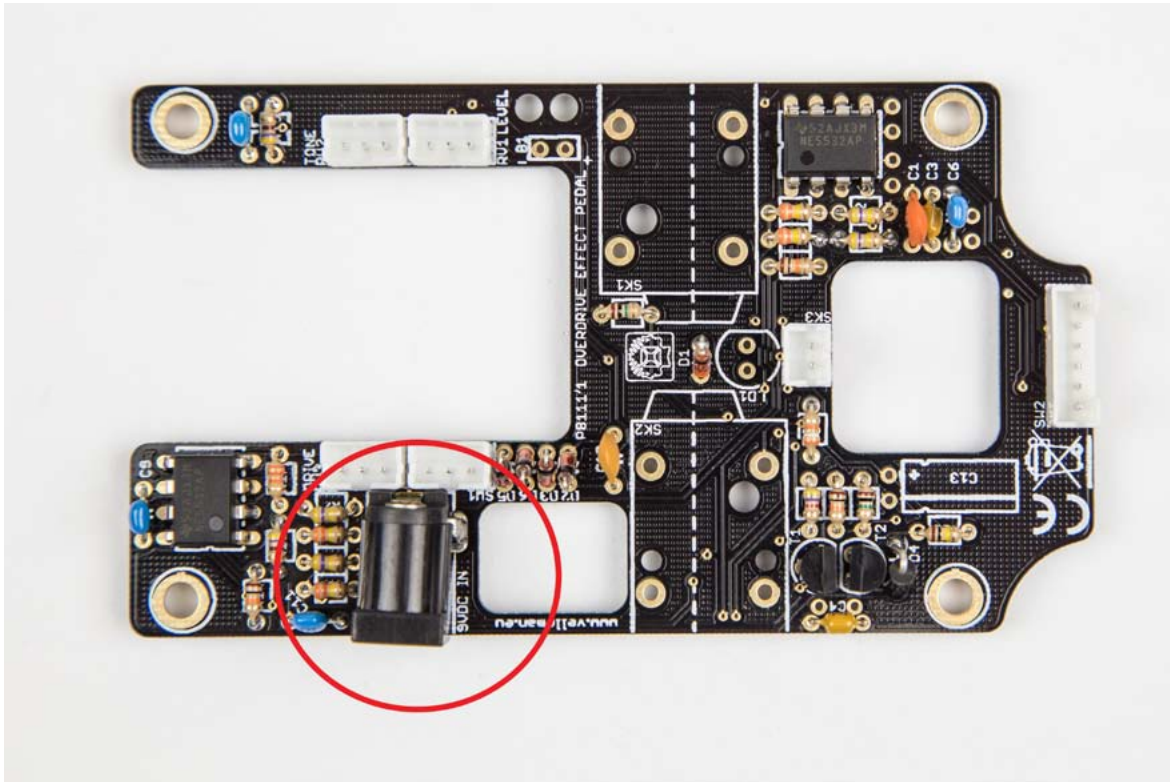
13. Capacitor 223: C10



14. Capacitor 47: C12

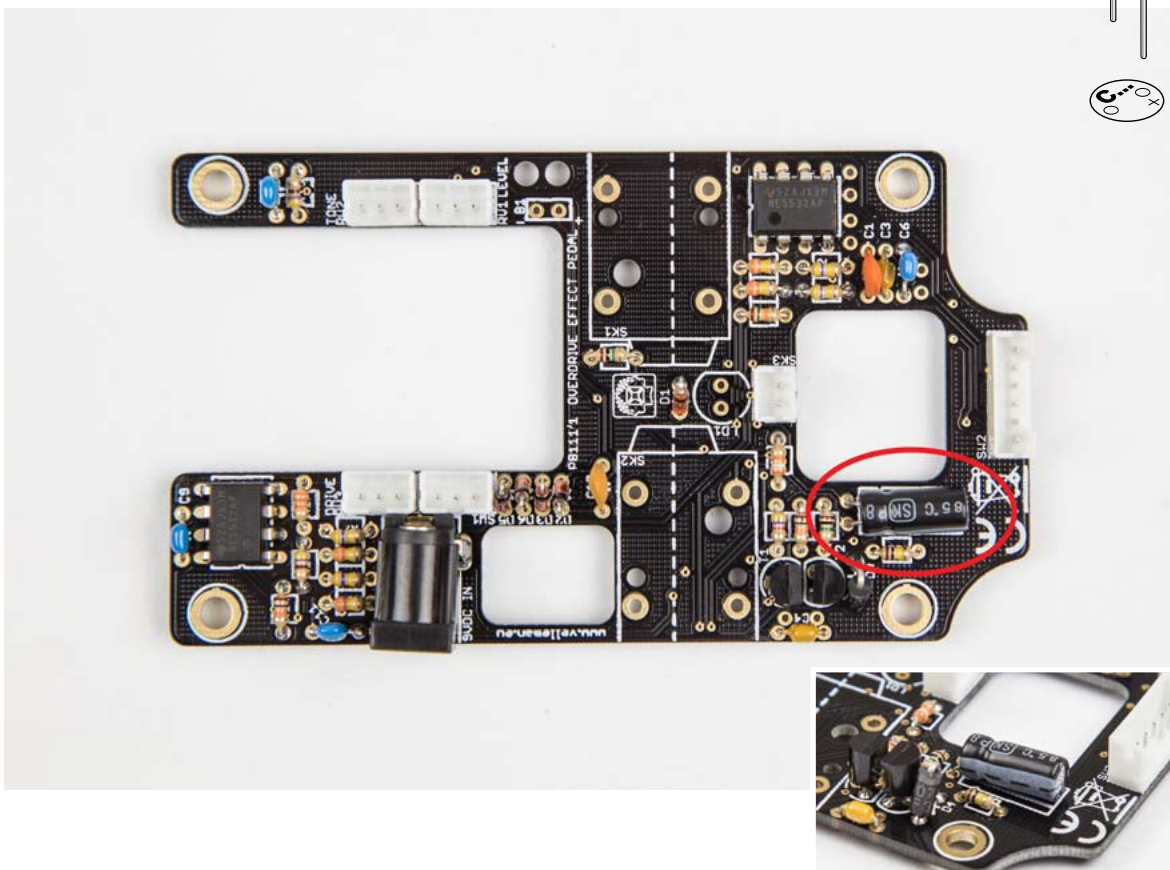


15. DC jack: J1 SVDC IN

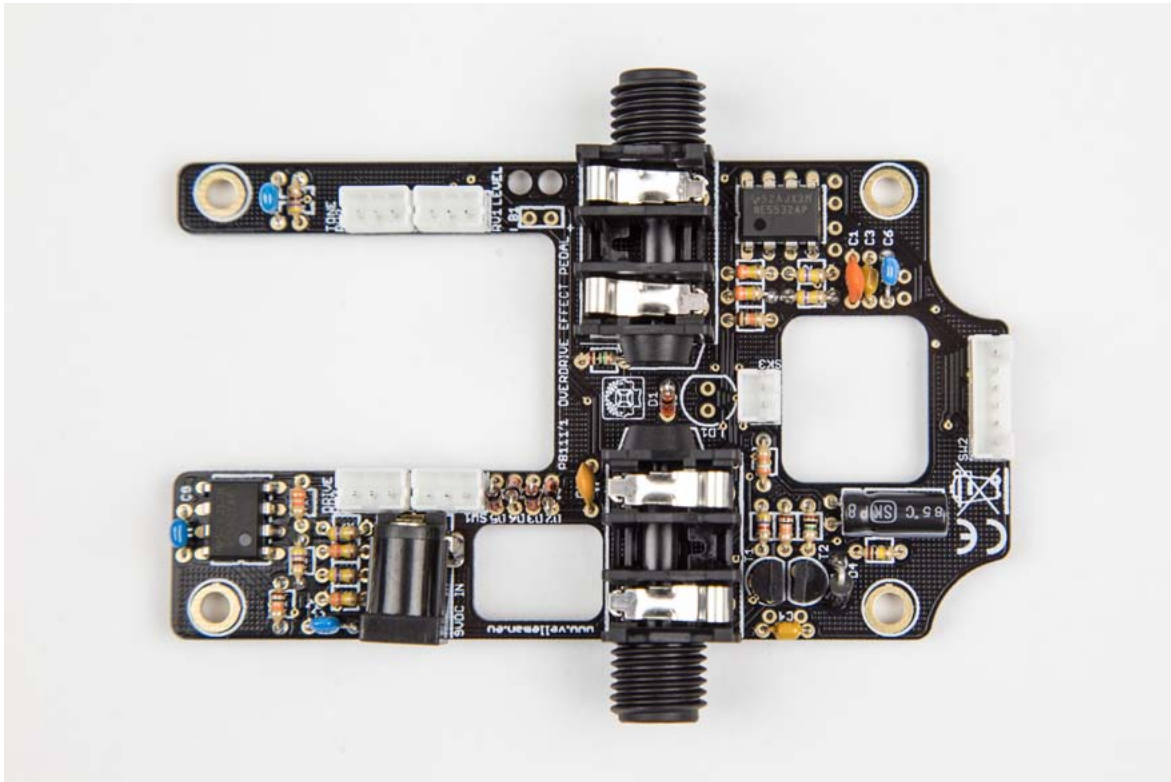


16. Capacitor 10 μ F: C13

Note the polarity!



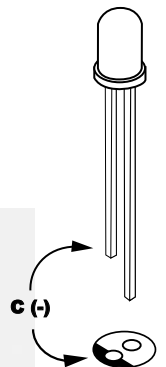
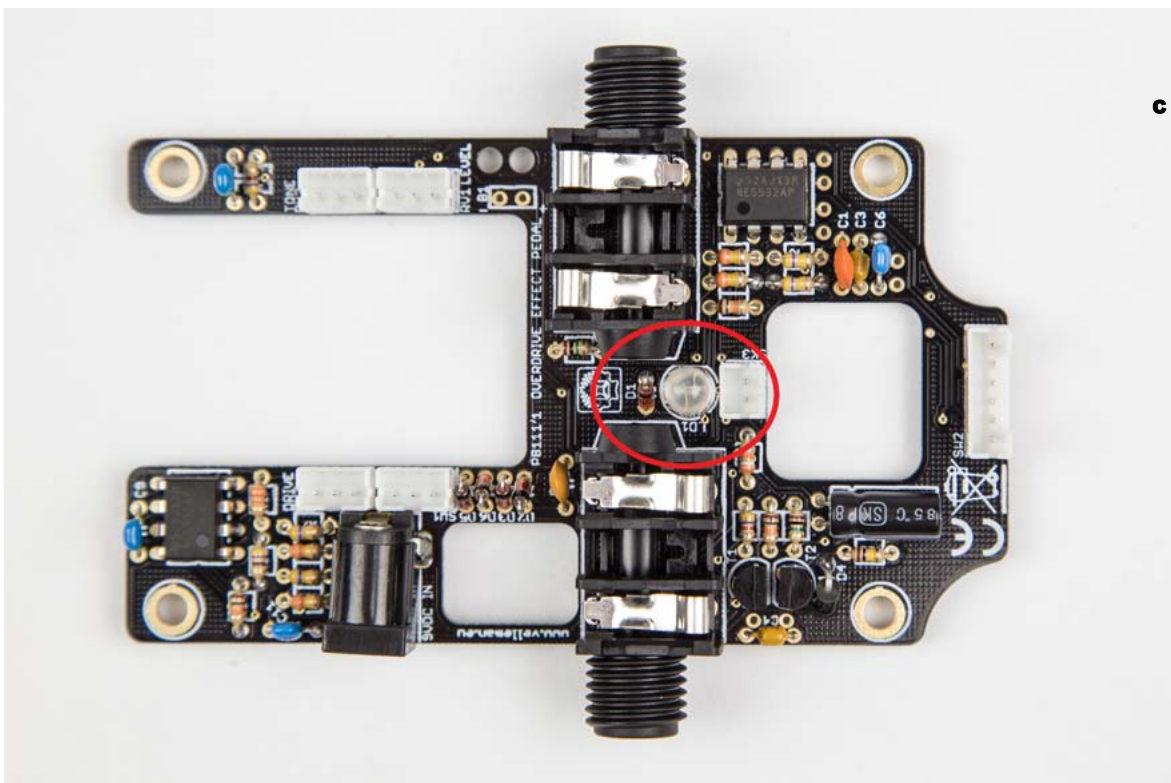
17. 2 x Audio jack: SK1 and SK2

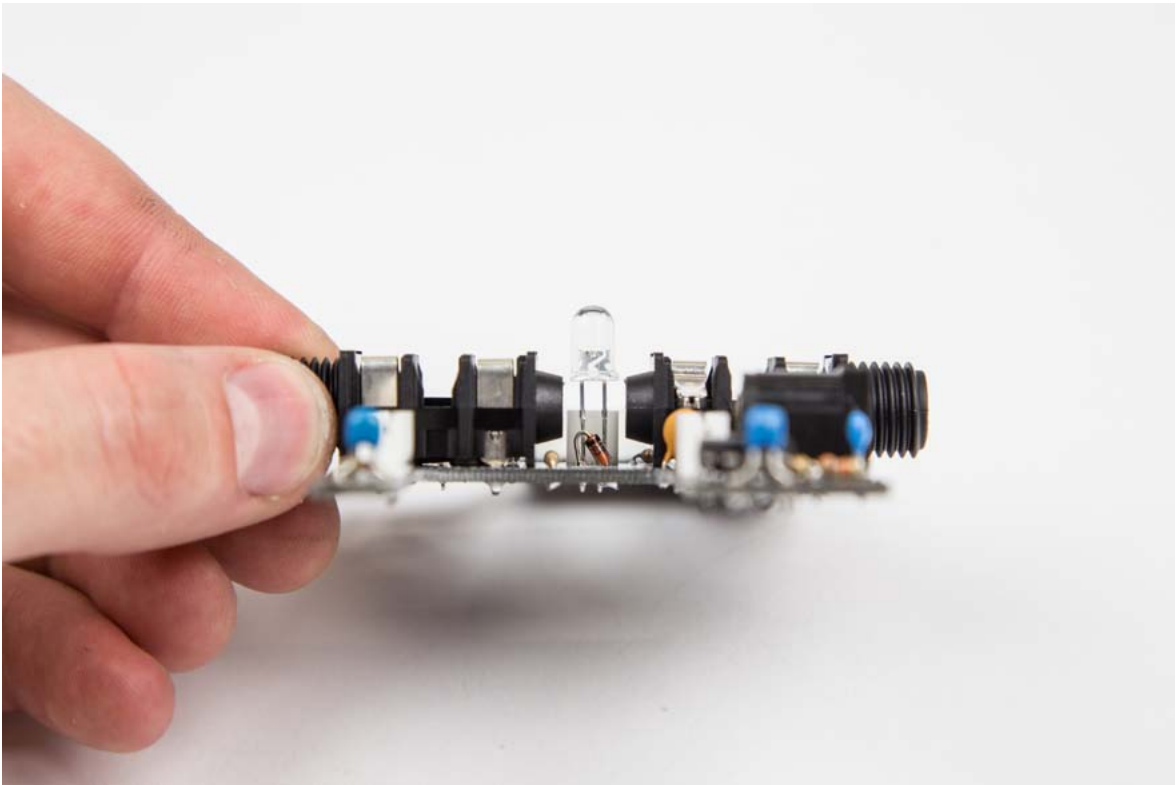
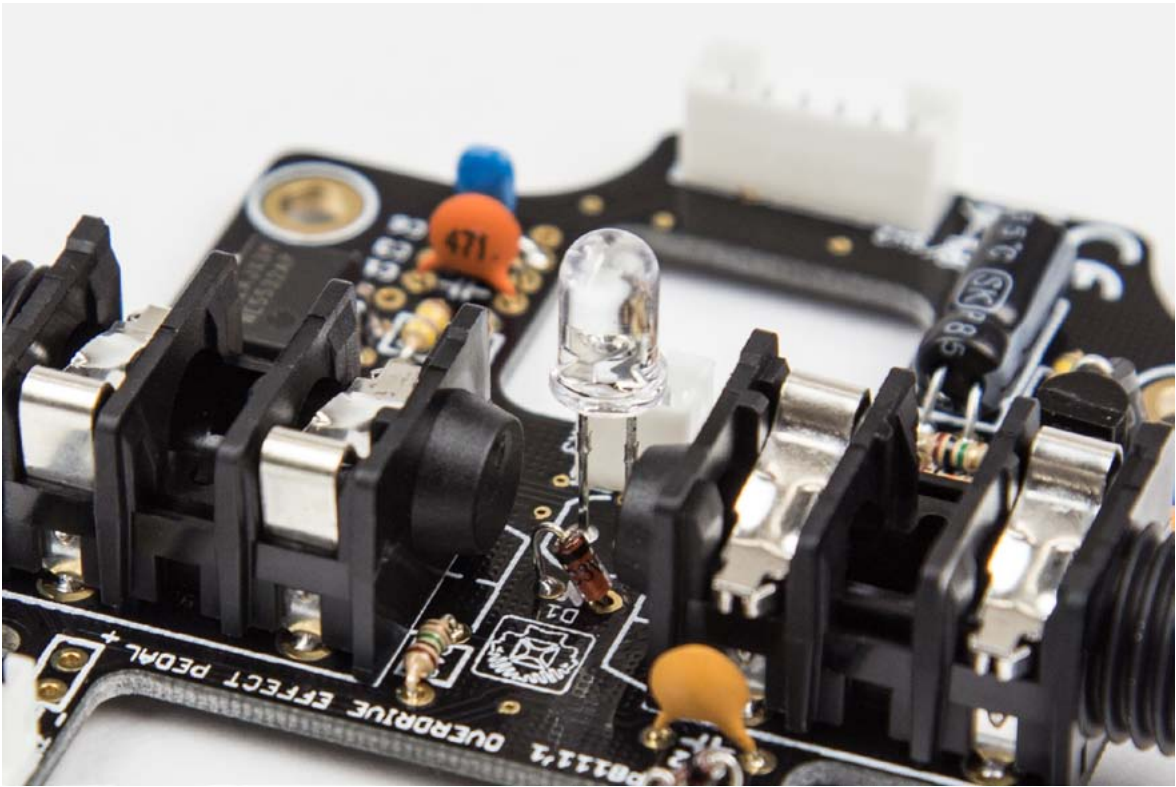


18. 5 mm blue LED: LD1 (do a diode test with a multimeter to find the blue LED)

Note the polarity!

Make sure it stands out about 12 mm from the PCB, as shown in the picture!

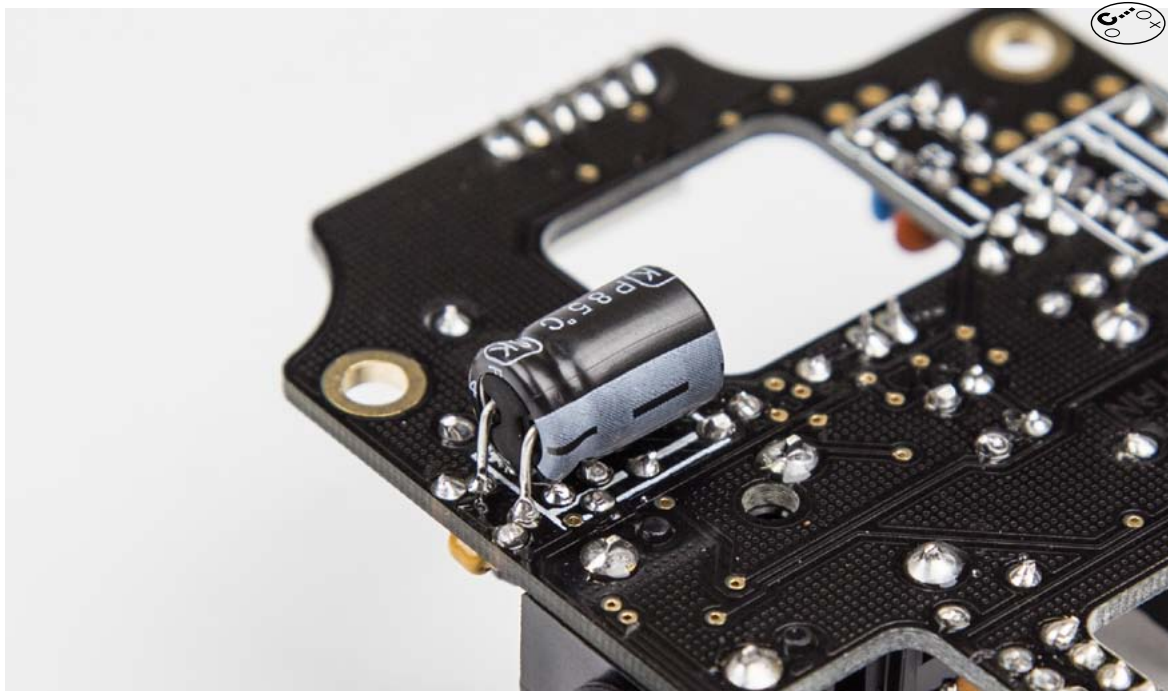
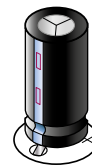




19. Capacitor 220 μ F: C2

SOLDER ON BOTTOM SIDE OF PCB!

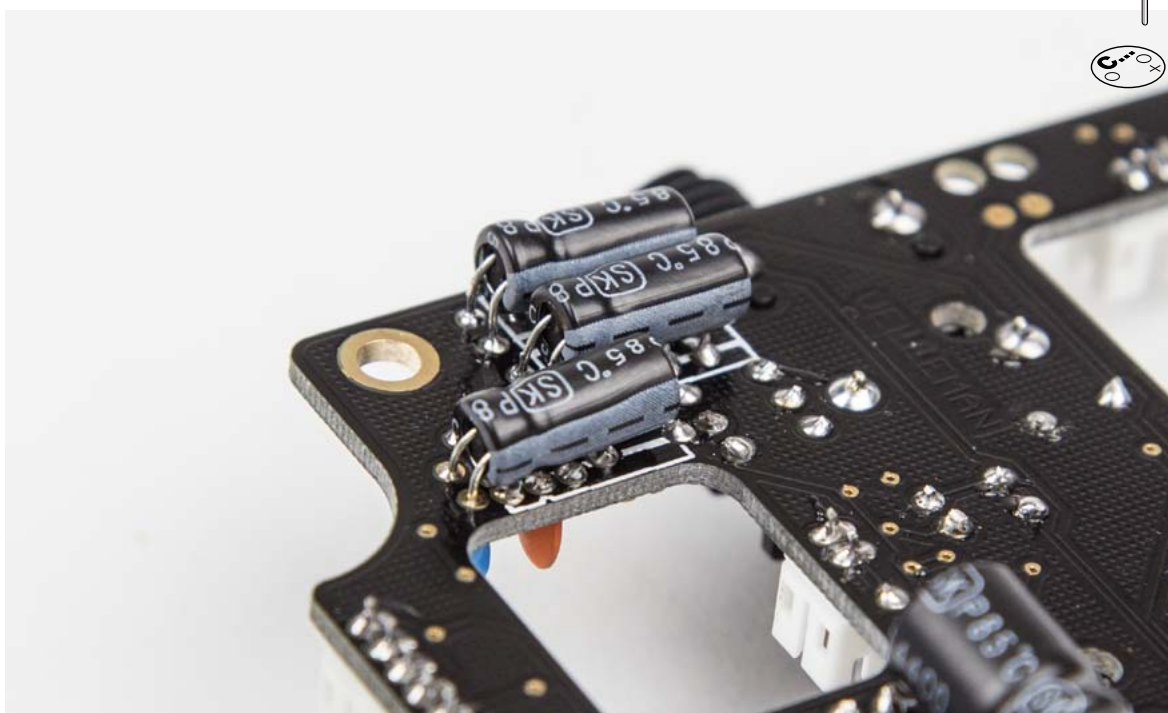
Note the polarity!



20. Capacitor 10 μ F: C7, C8 and C12

SOLDER ON BOTTOM SIDE OF PCB!

Note the polarity!



21. Trim the leads on the 9 V snapt to 5 cm.

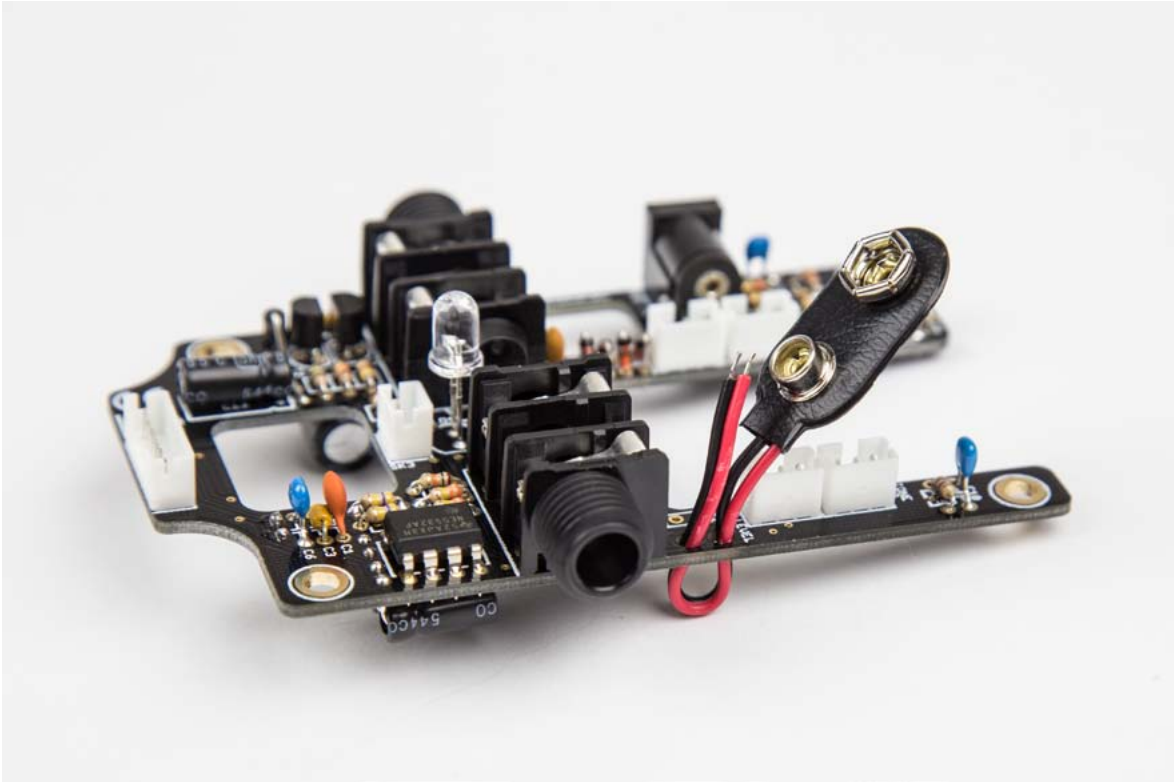
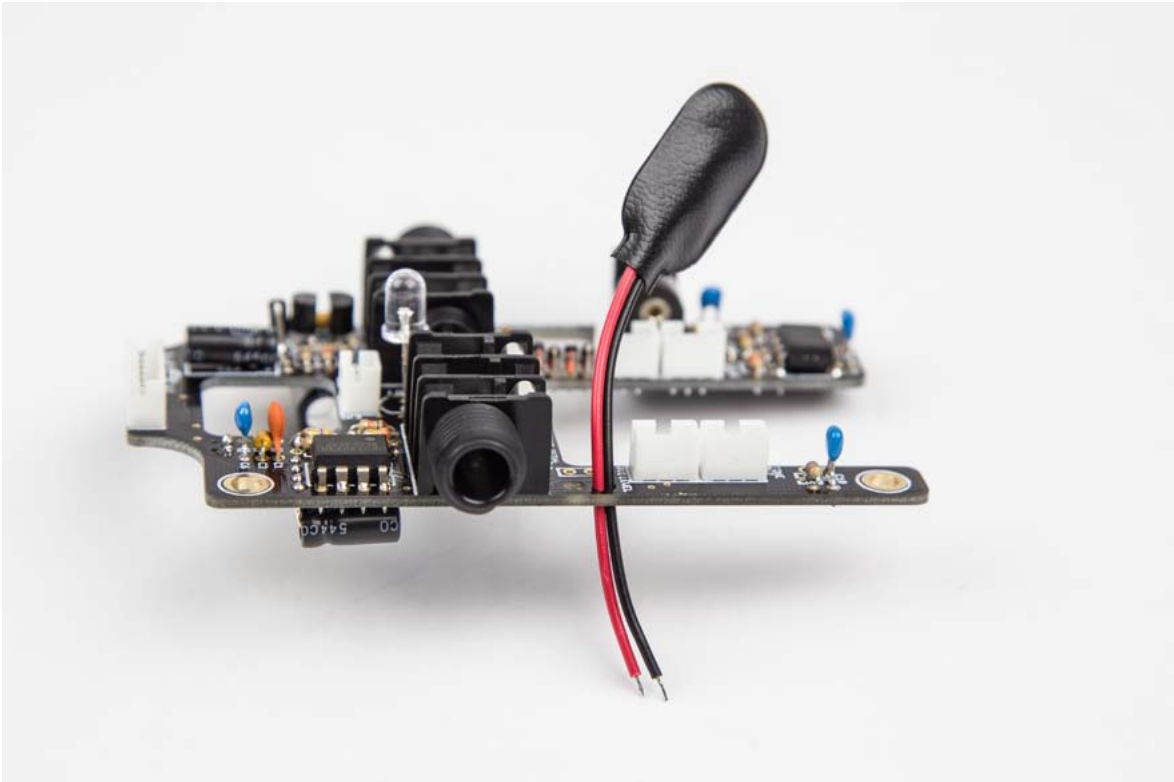


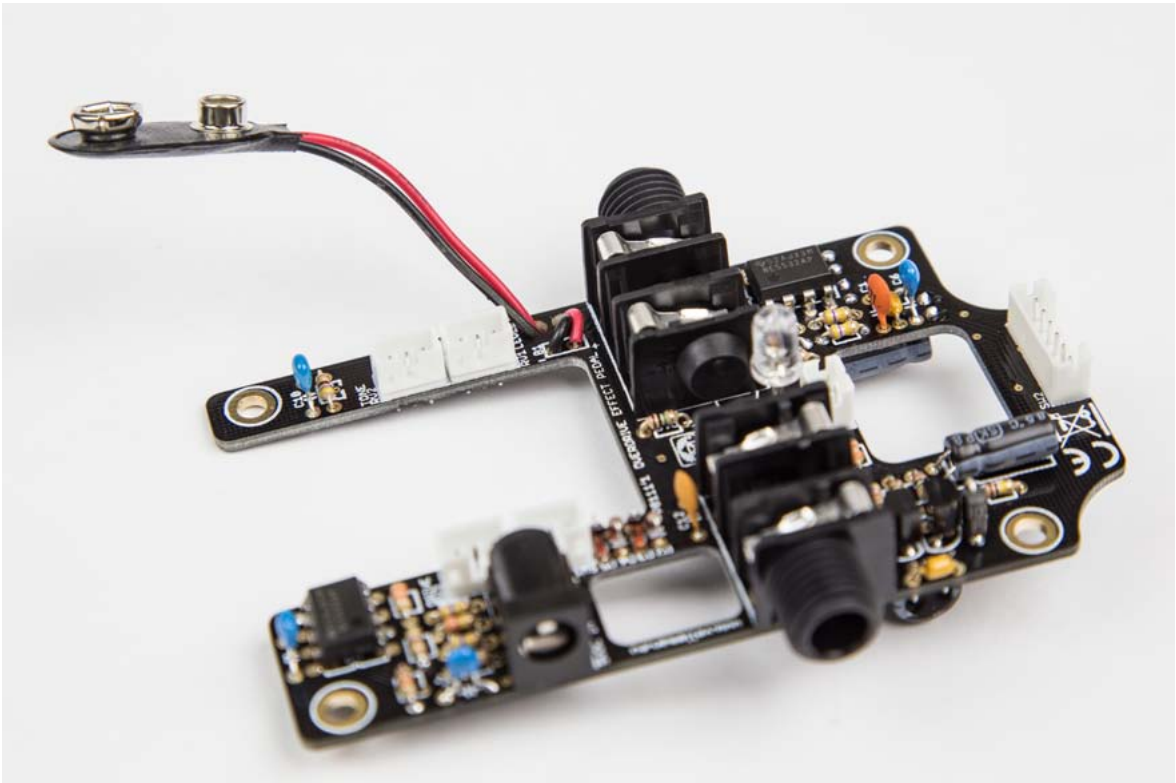
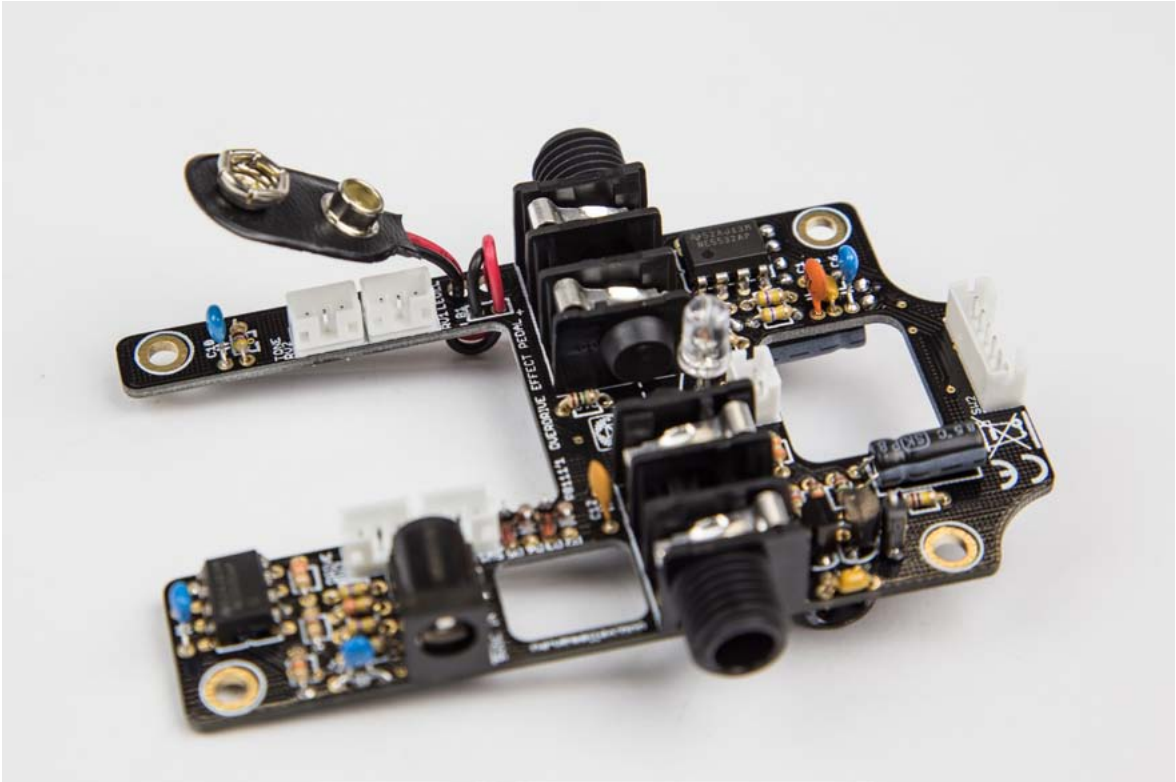
22. Strip and tin both wires



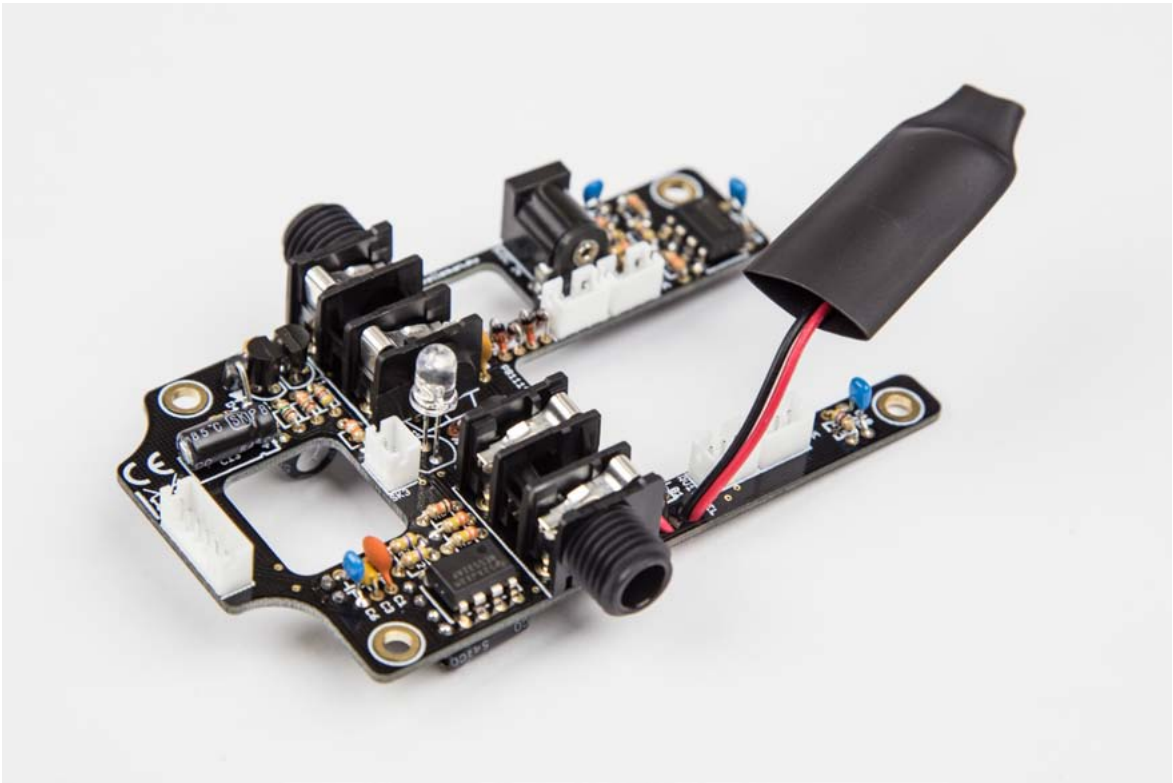
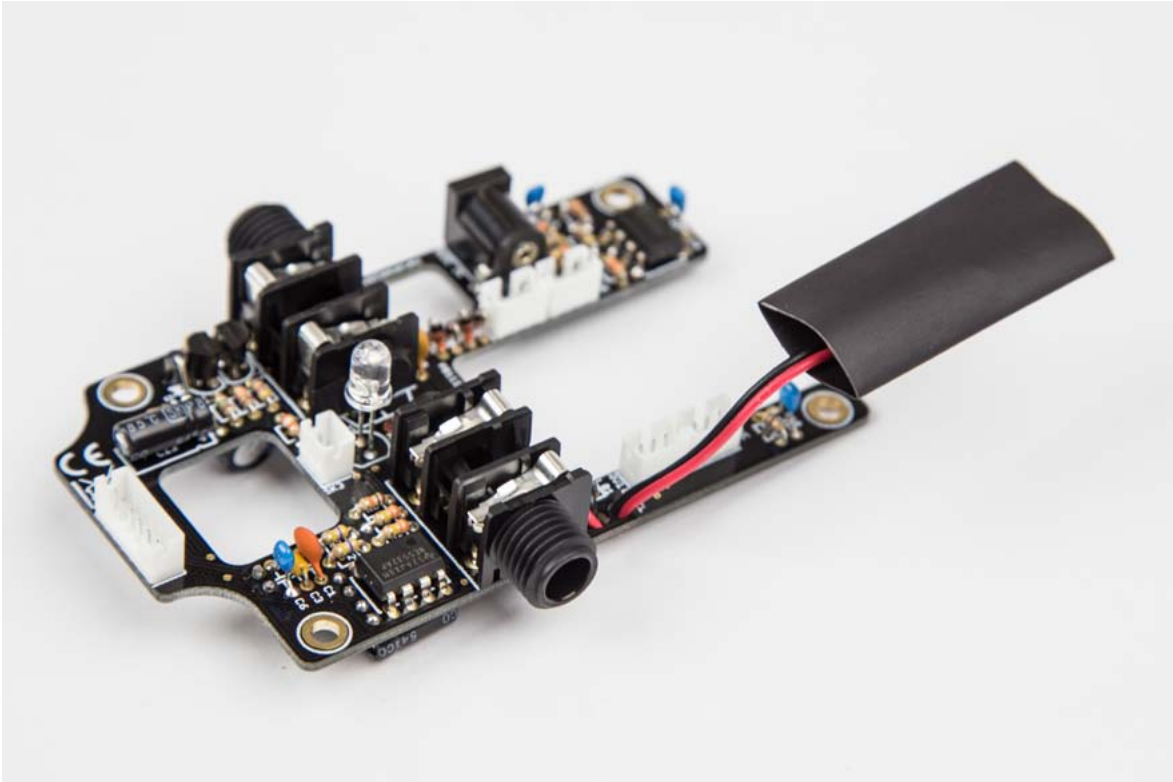
23. Place and solder the 9 V snap to the PCB as shown in the images below.

Note the polarity! RED = +, BLACK = -

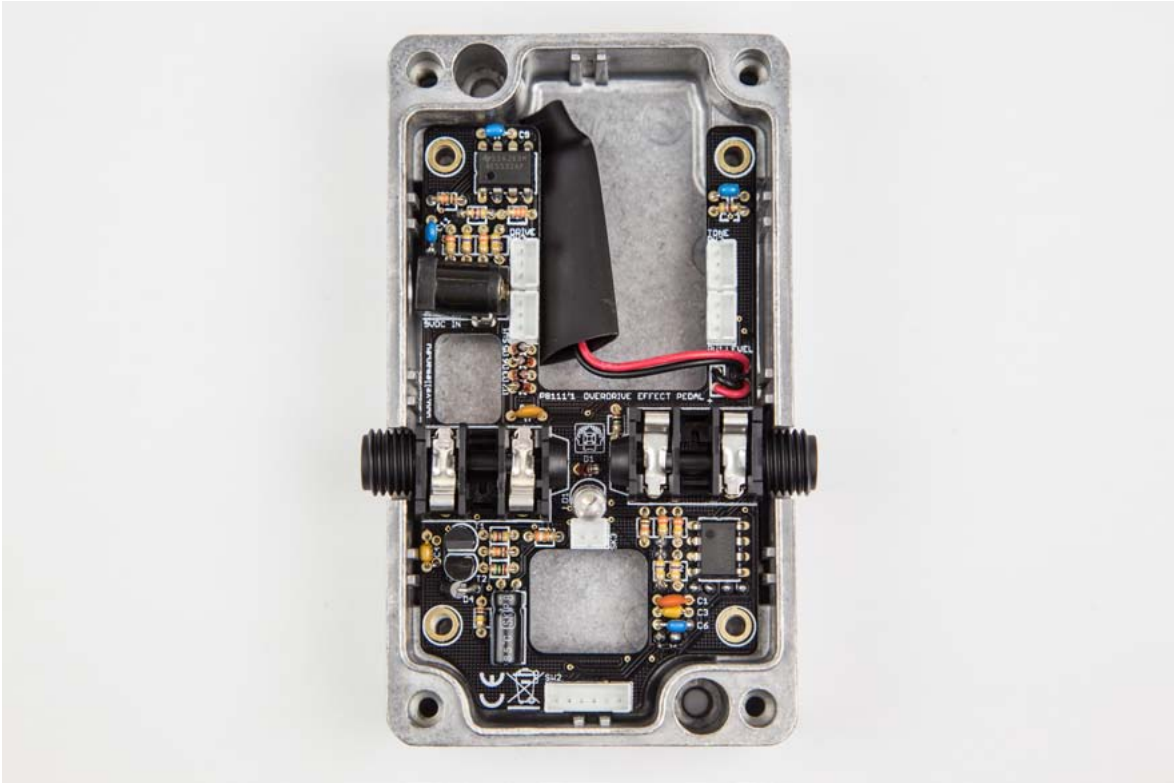




24. Slide 4,5 cm of the biggest shrinktube over the connector. **When no battery is used in the pedal this cover should always be used.**



25. Place the finished board into the pedal casing and tighten it down with the supplied screws.

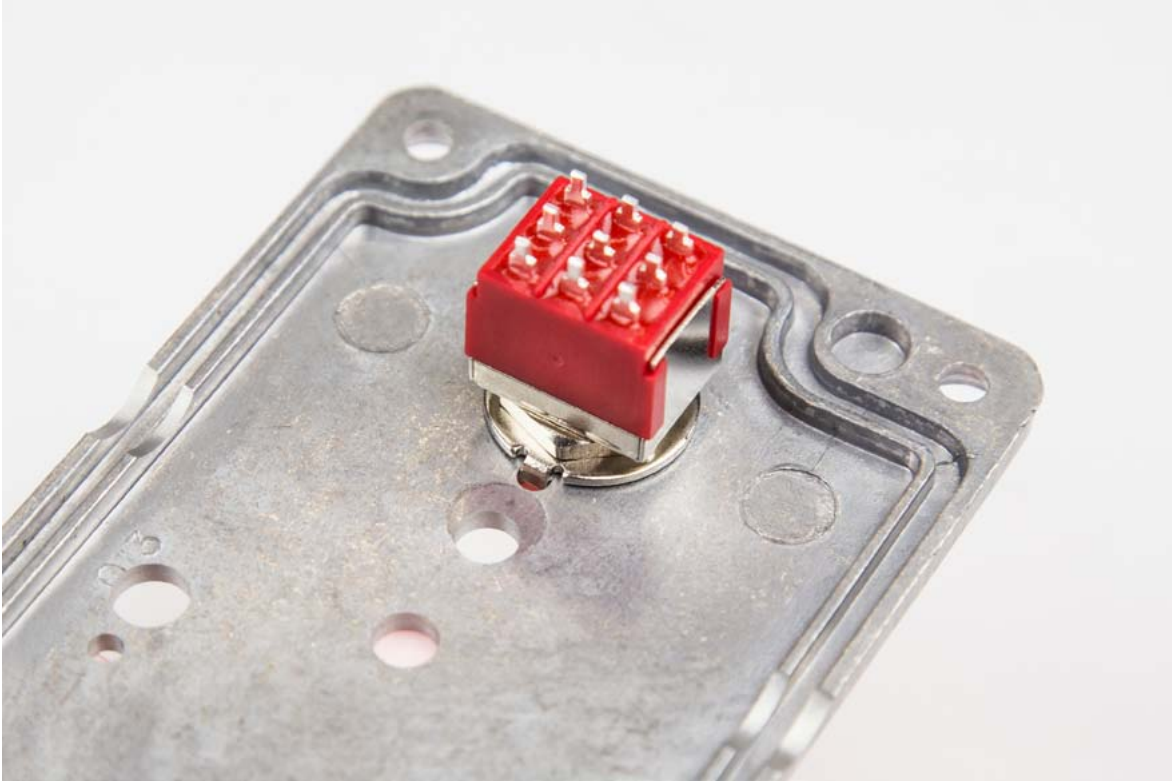


26. Shorten all the pins on the footswitch by 1.5 - 2 mm.

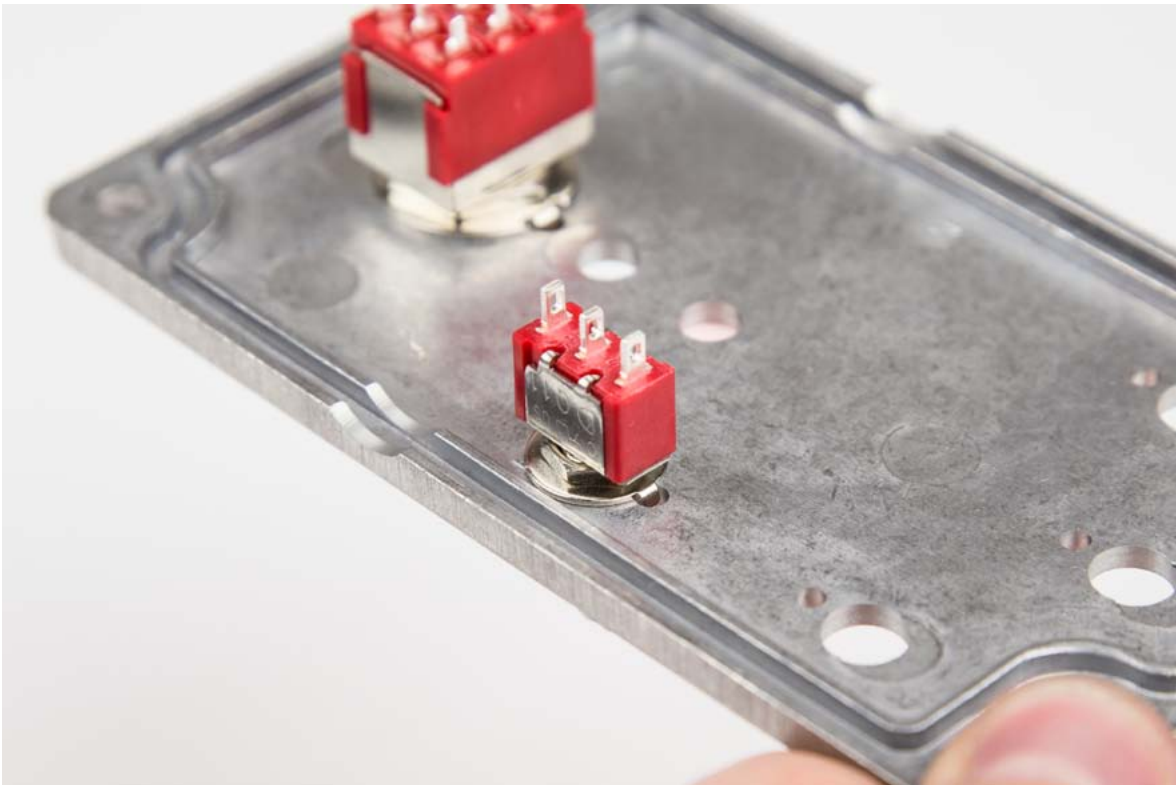


27. Install the footswitch as shown in the images below.





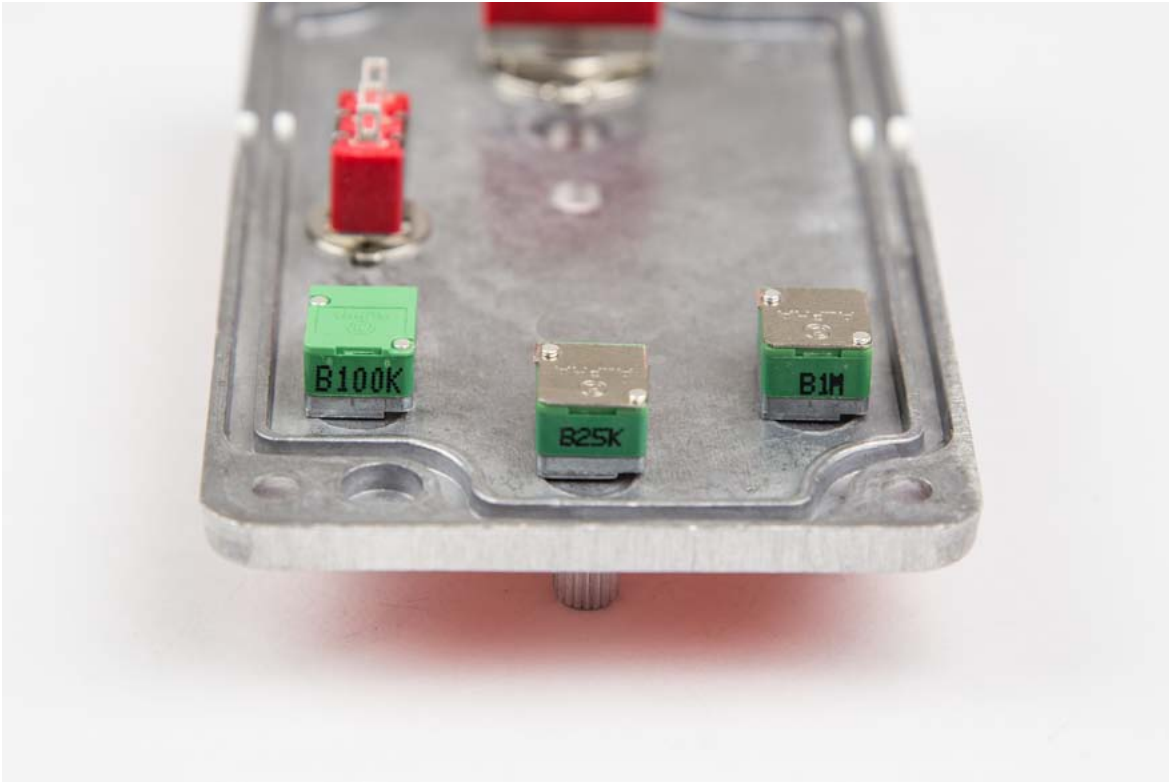
28. Install the selector switch as shown in the images below.





29. Install the 3 potentiometers as shown in the images below. Note the placement of the different values!





30. Trim the leads of the 6 wire female connector to 4.5 cm.



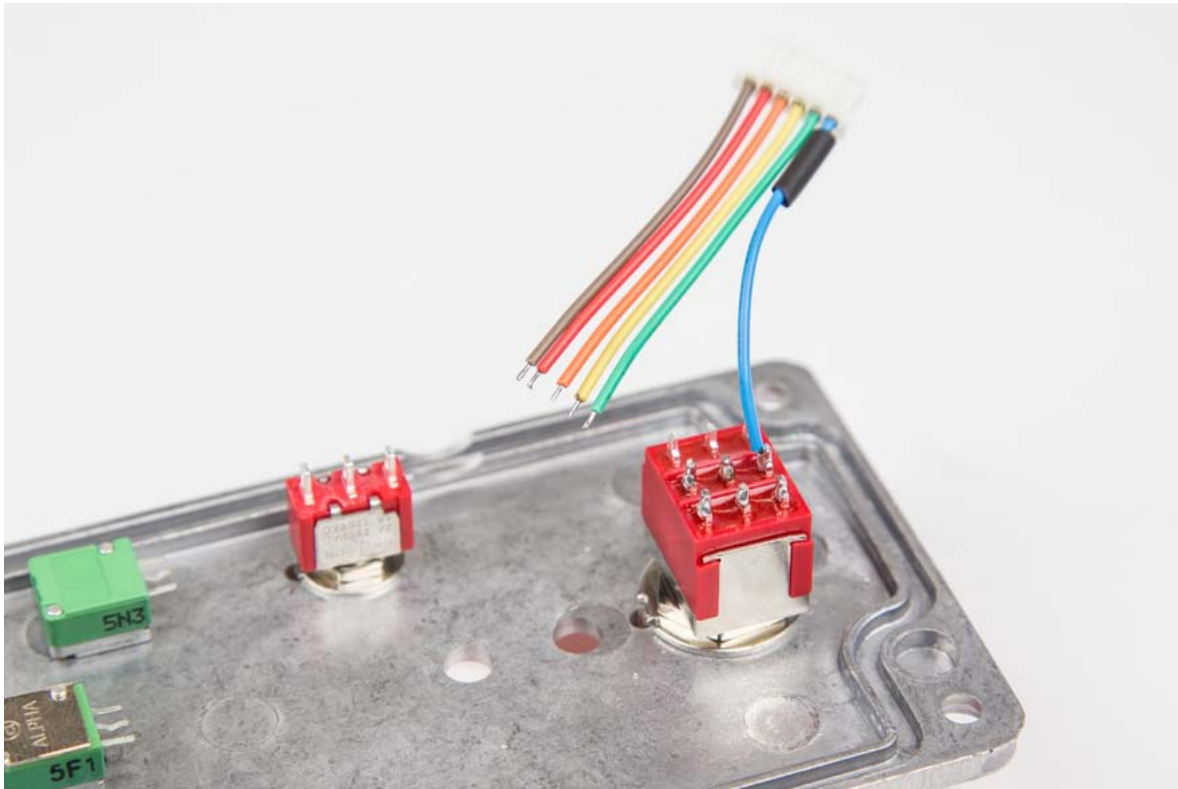
31. Strip and tin the wires.

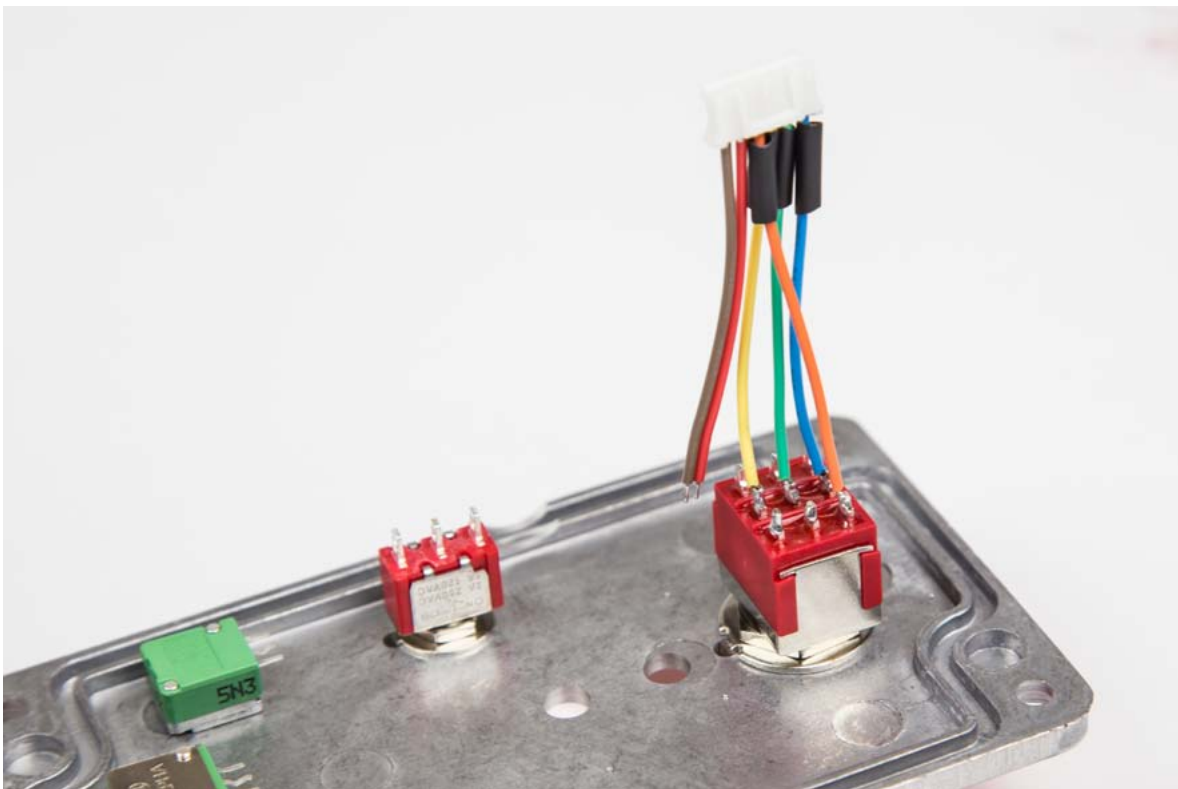
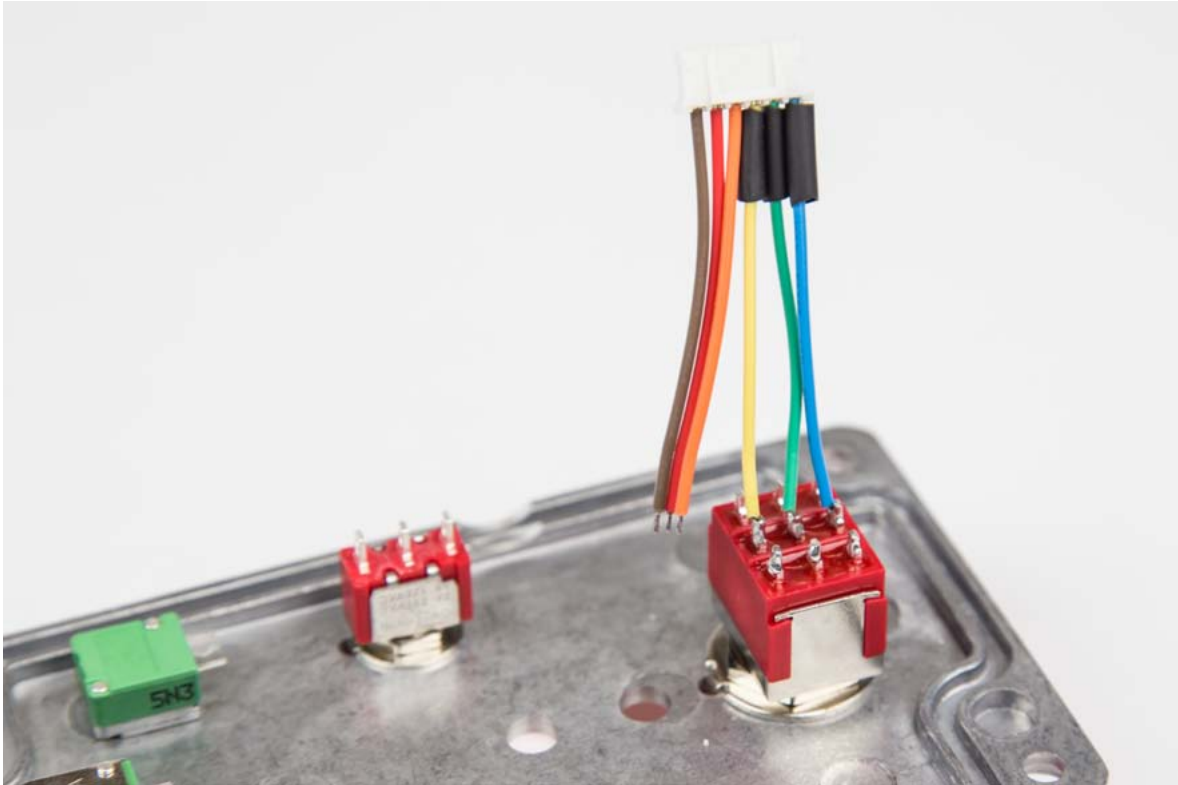


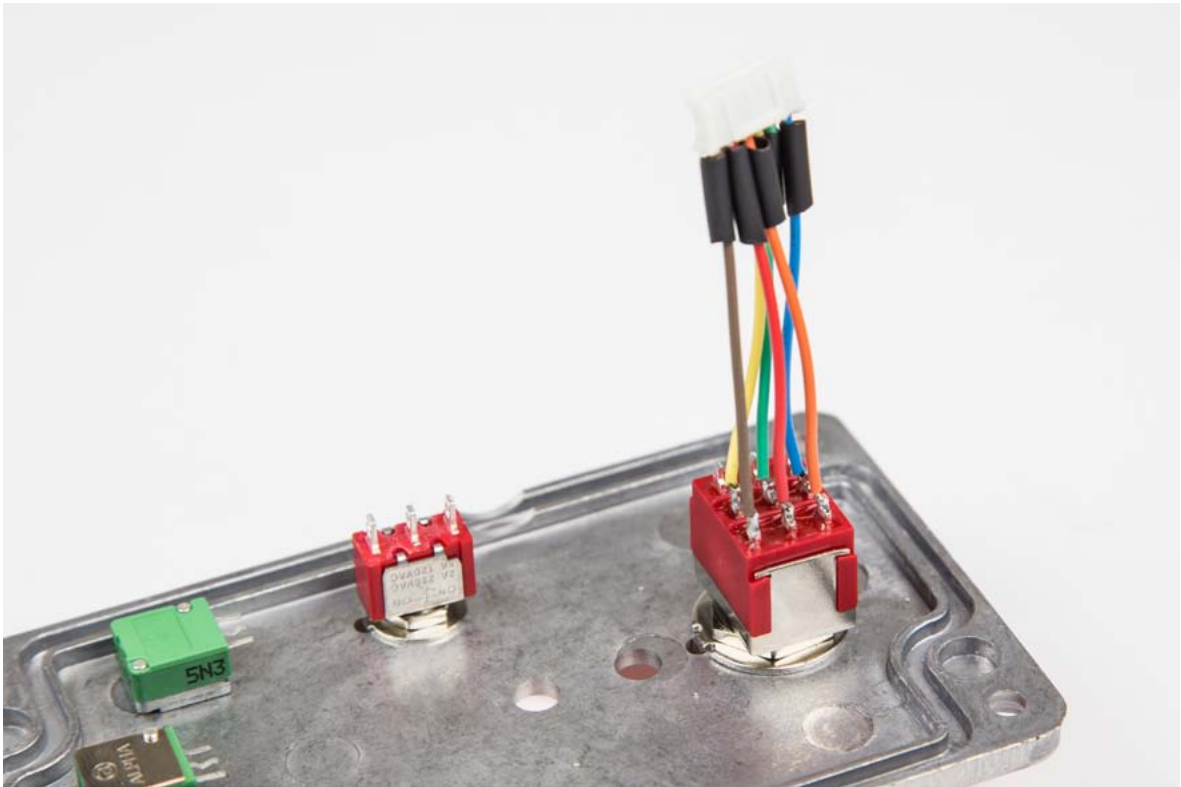
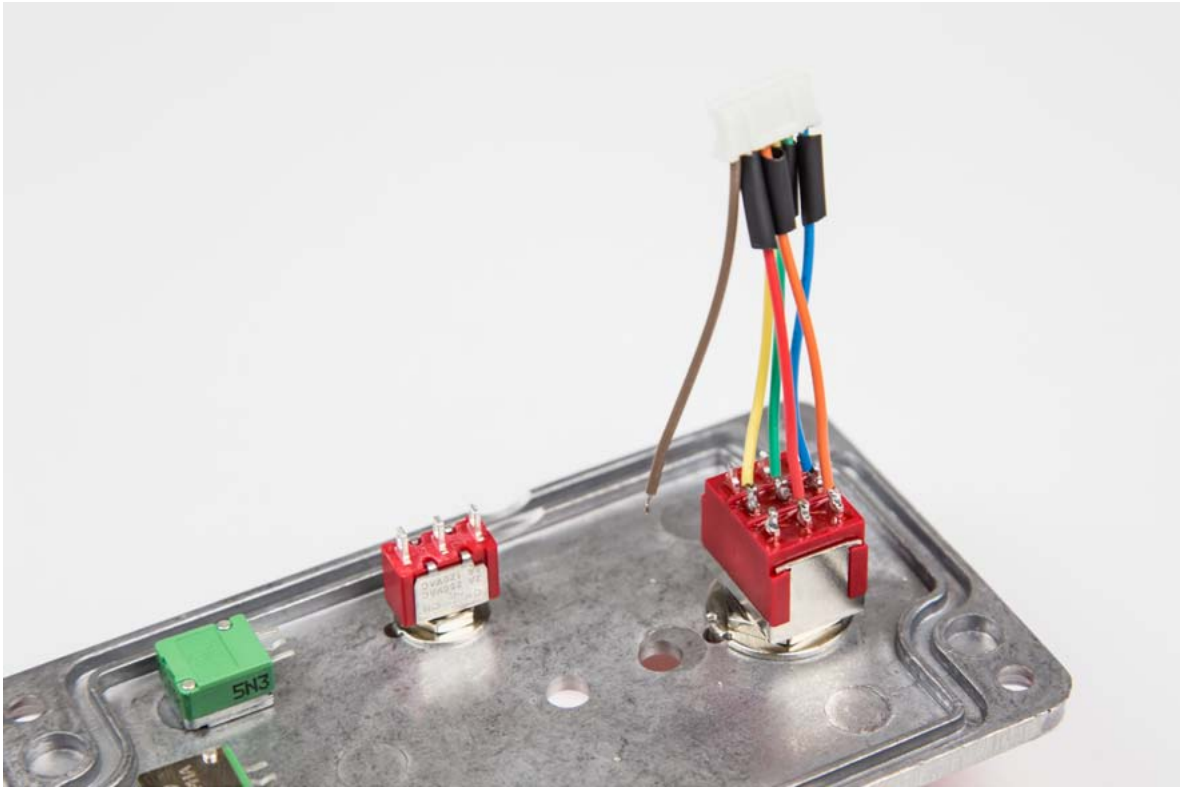
32. Cut 6 x 7 mm pieces of the 2.4 mm shrinktube.

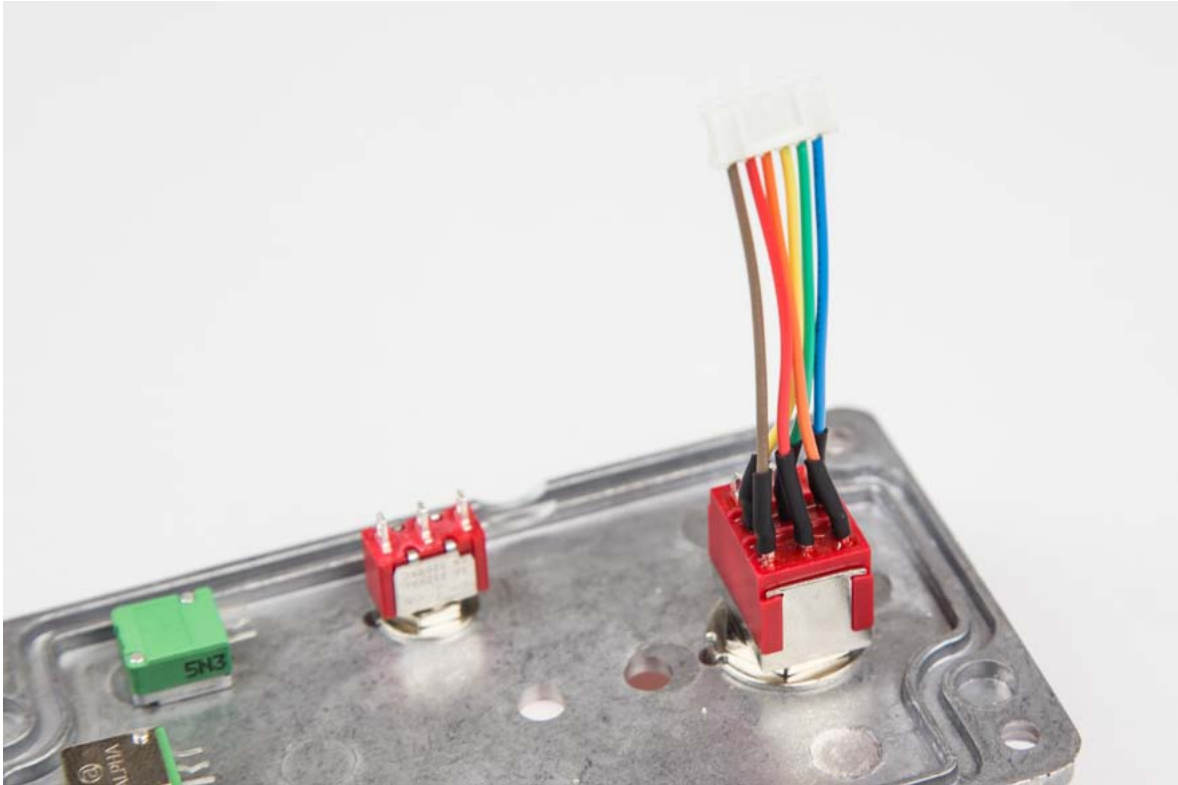


33. Solder the wires to the footswitch as shown below. **Do not forget the shrinktube pieces and note the colors.**

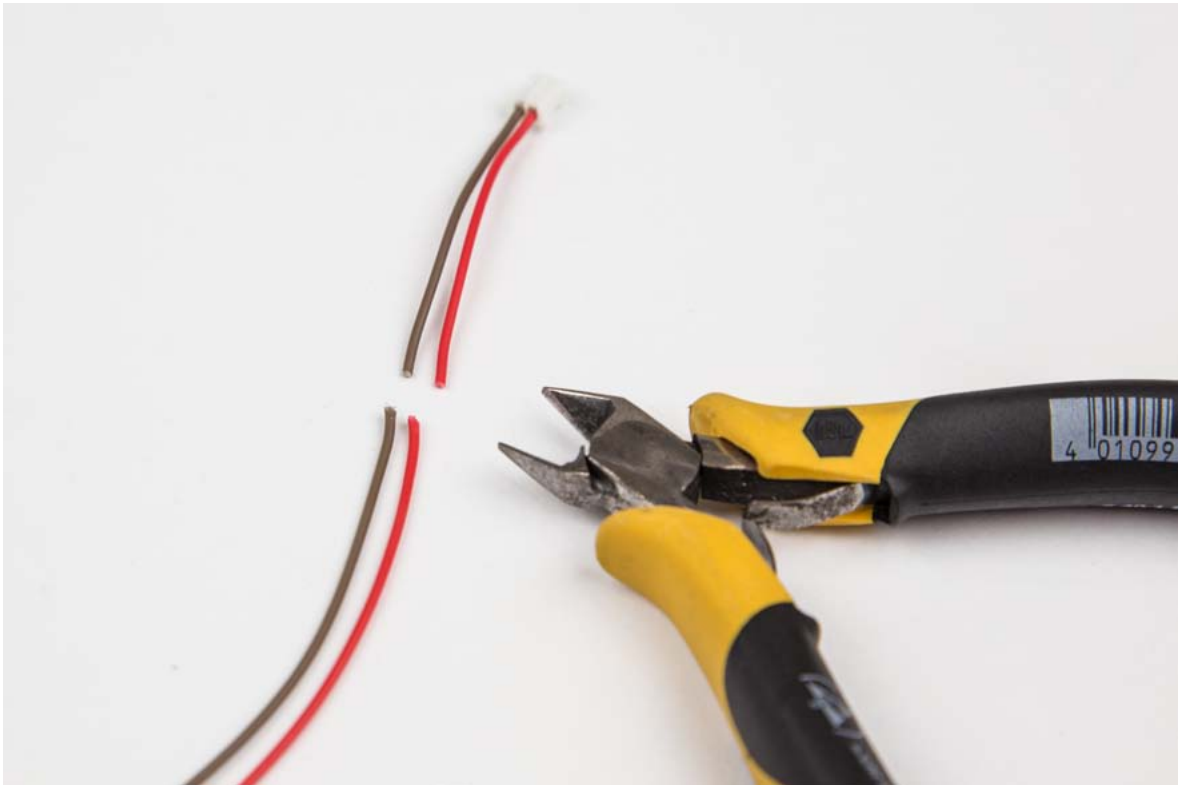








34. Trim the leads of the 2 wire female connector to 4.5 cm.



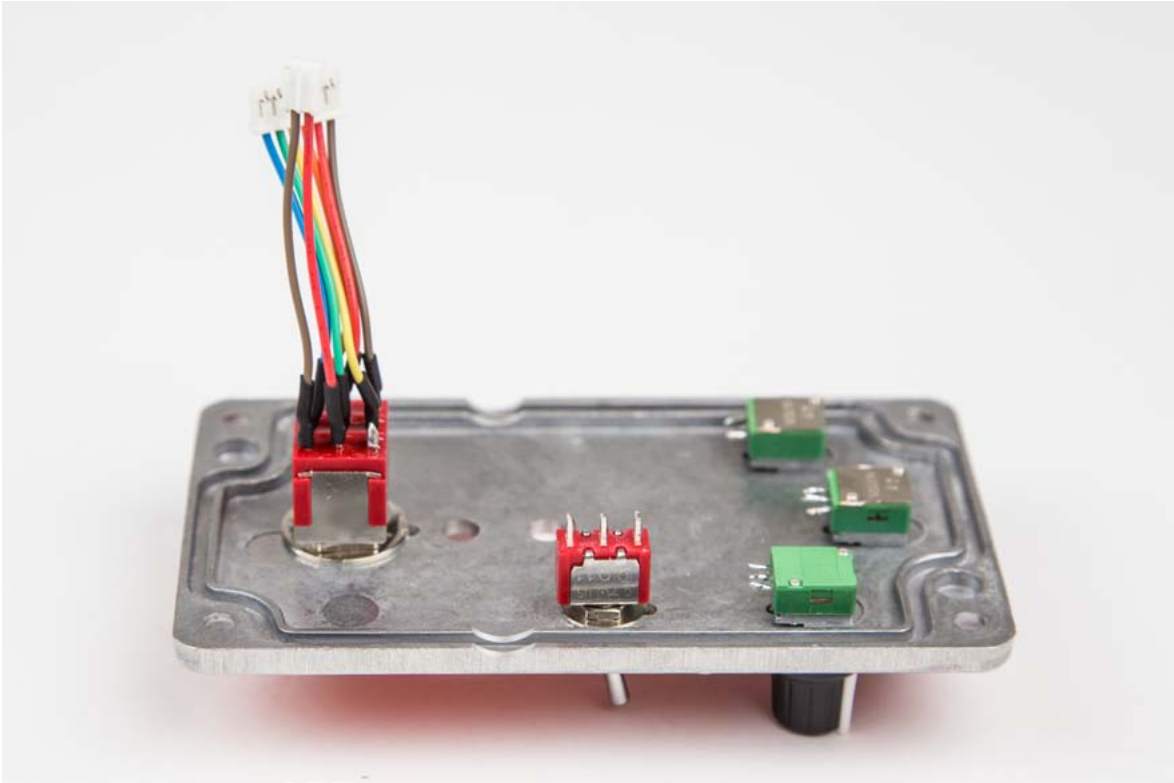
35. Strip and tin the wires.



36. Cut 2 x 7 mm pieces of the 2.4 mm shrinktube.



37. Solder the wires to the footswitch as shown below. **Do not forget the shrinktube pieces and note the colors.**



38. Trim the leads of one of the 3 wire female connector to 4.5 cm.



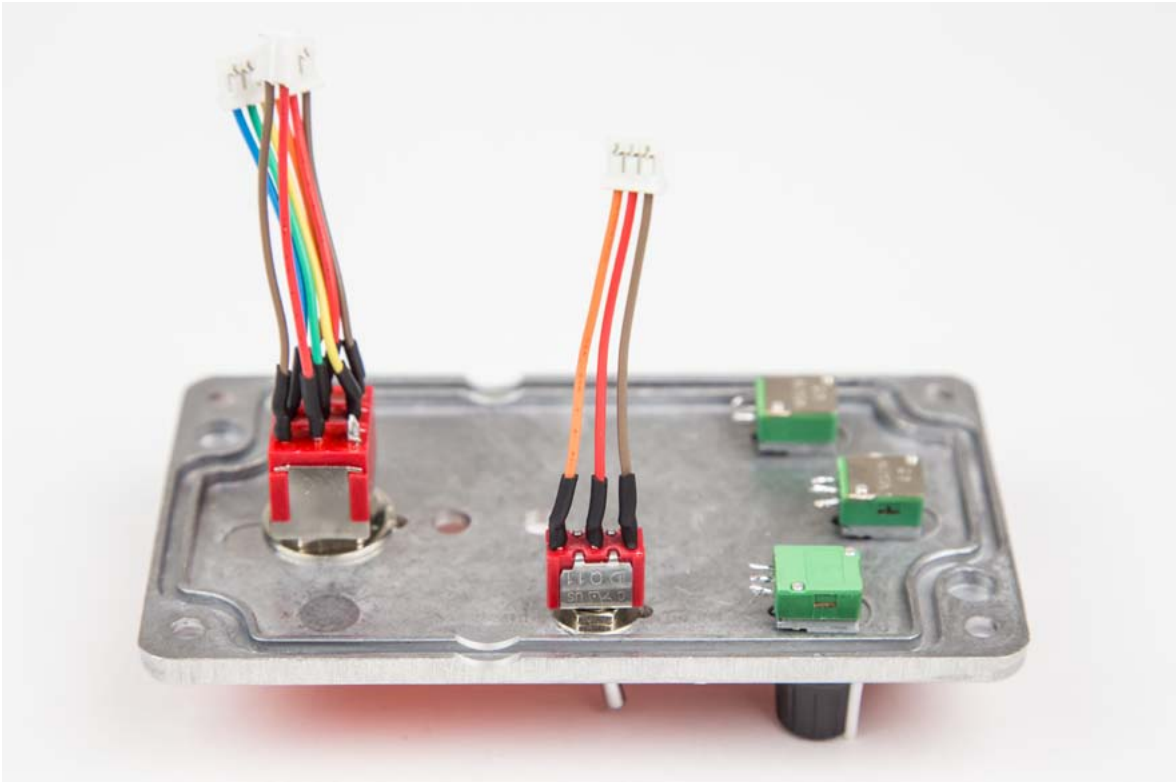
39. Strip and tin the wires.



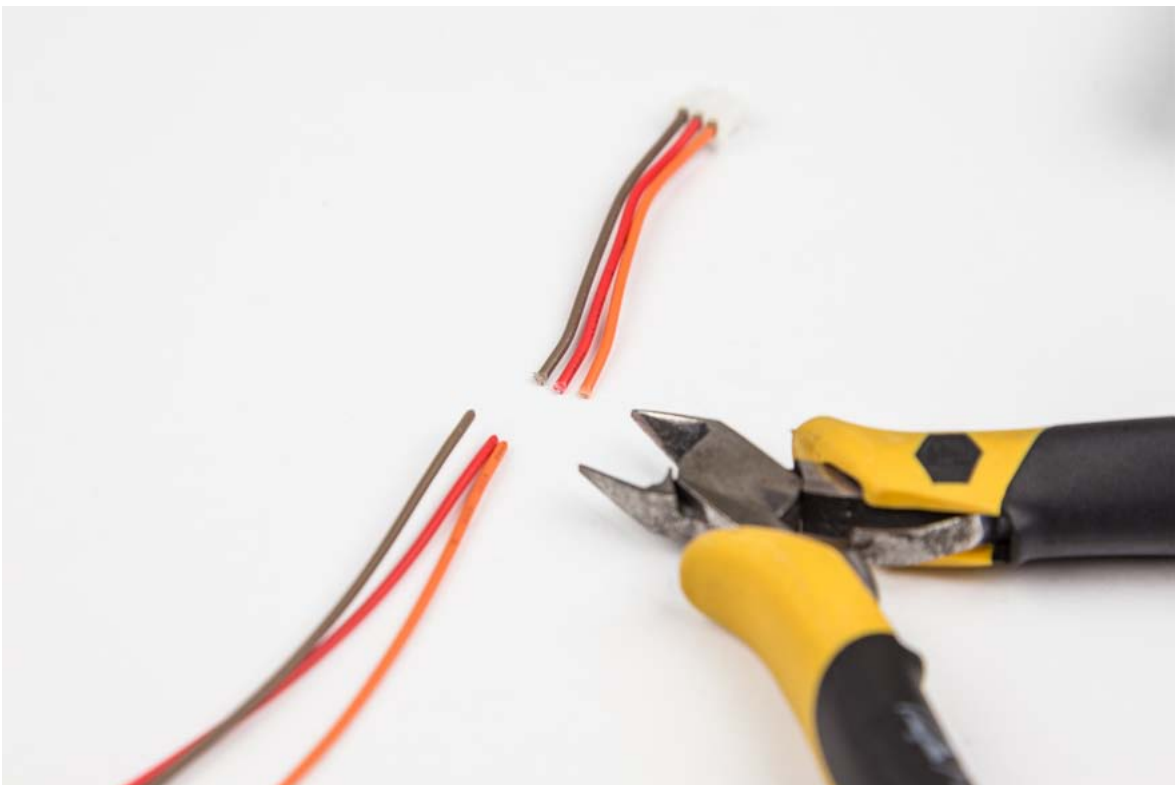
40. Cut 3 x 7 mm pieces of the 2.4 mm shrinktube.



41. Solder the wires to the selector switch as shown below. **Do not forget the shrinktube pieces and note the colors.**



42. Trim the leads of two of the 3 wire female connector to 5 cm.



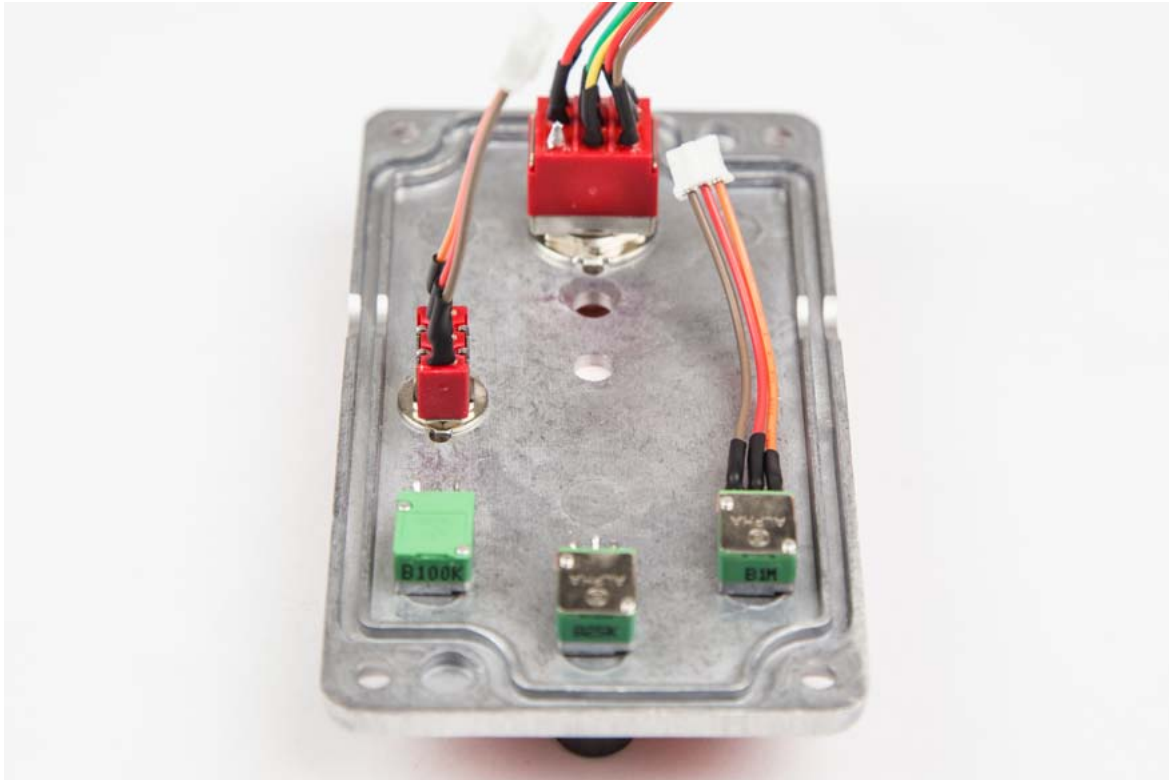
43. Strip and tin the wires of both connectors.



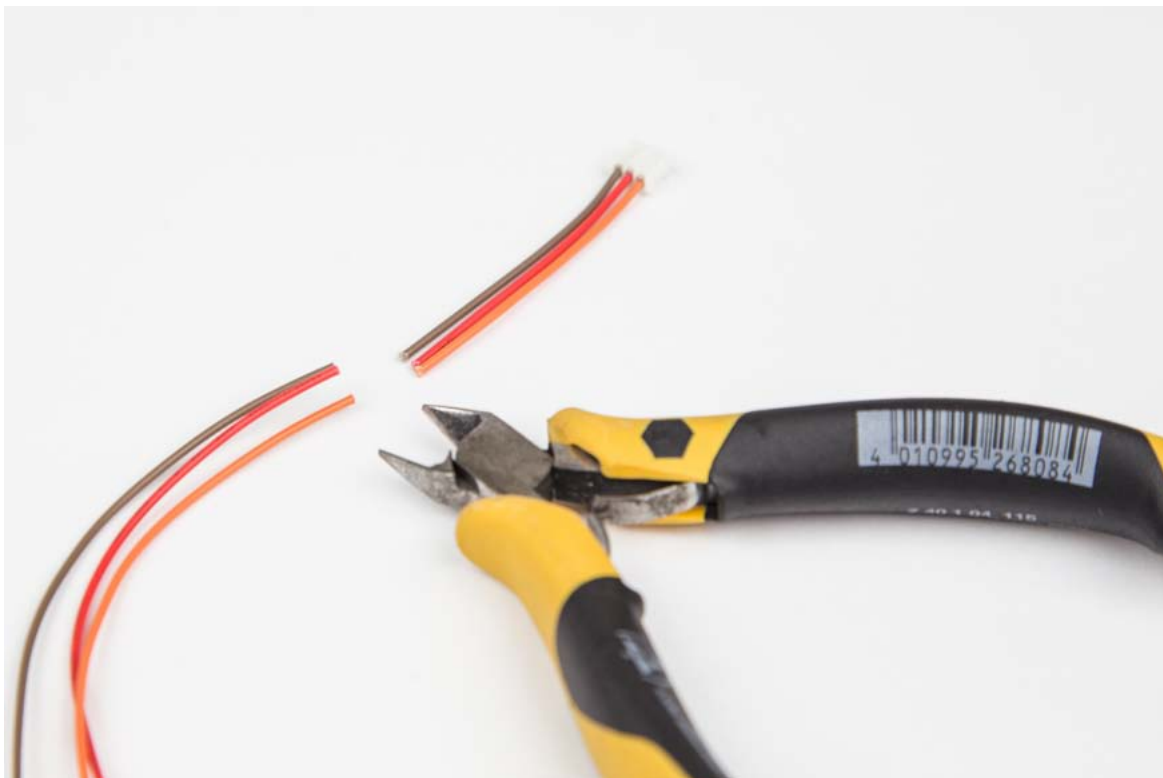
44. Cut 6 x 7 mm pieces of the 2.4 mm shrinktube.



45. Solder the wires to the 1M potentiometer as shown below. **Do not forget the shrinktube pieces and note the colors.**



46. Trim the leads of one of the 3 wire female connector to 5 cm.



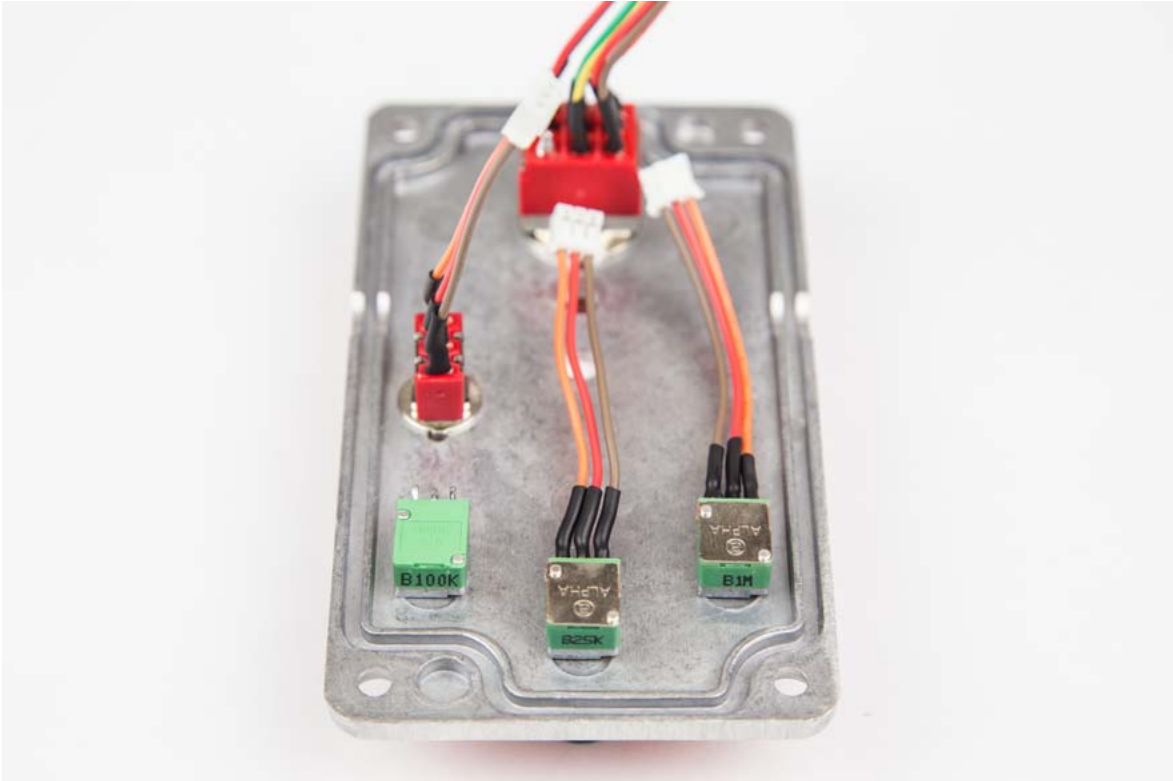
47. Strip and tin the wires of the connector.



48. Cut 3 x 7 mm pieces of the 2.4 mm shrinktube.



49. Solder the wires to the 25K potentiometer as shown below. **Do not forget the shrinktube pieces and note the colors.**



50. Trim the leads of one of the 3 wire female connector to 5 cm.



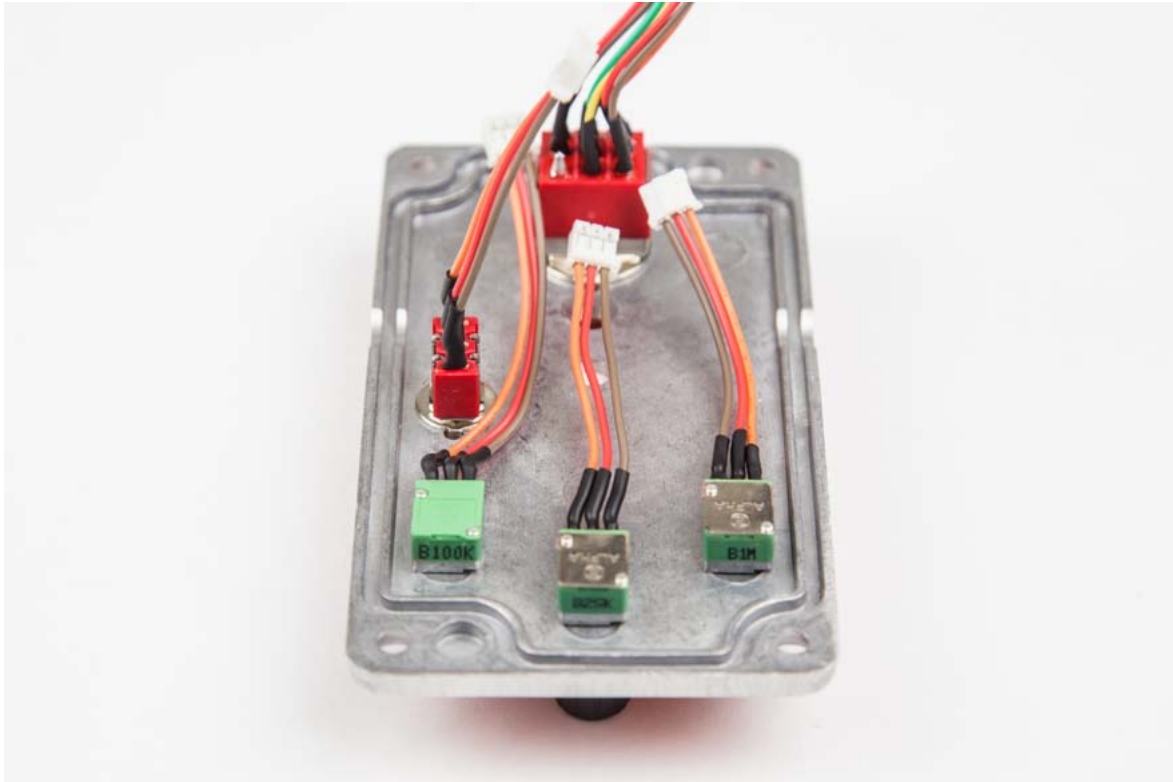
51. Strip and tin the wires of the connector.



52. Cut 3 x 7 mm pieces of the 2.4 mm shrinktube.



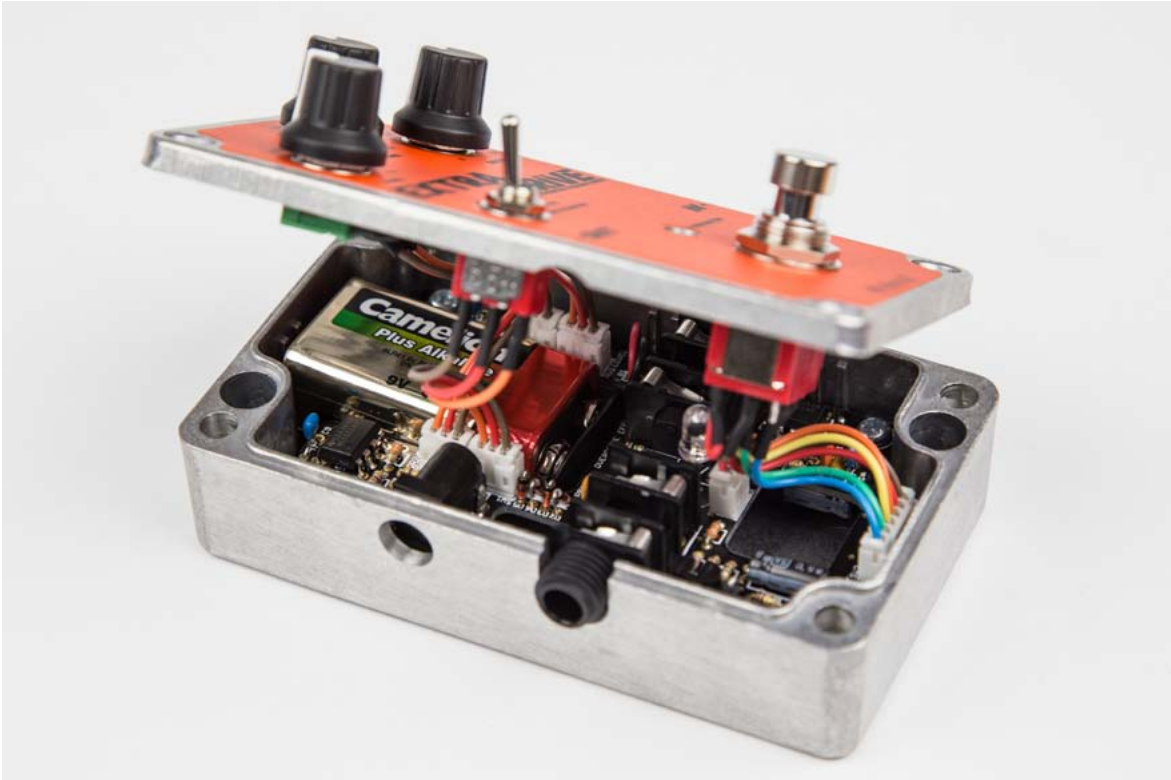
53. Solder the wires to the 100K potentiometer as shown below. **Do not forget the shrinktube pieces and note the colors.**



54. Slide the 3 knobs on top of the potentiometers.



55. Plug all the connectors onto their correct plug and close the enclosure.



velleman®



VellemanProjects



@Vel_Projects

VELLEMAN nv - Legen Heirweg 33, Gavere (Belgium)
vellemanprojects.com

ORDERCODE: K8111

REVISION: HK8111