ASSEMBLY MANUAL JULY 2016

EXTRADRIVE - (A)SYMMETRIC OVERDRIVE EFFECT PEDAL

ORDERCODE: K8111

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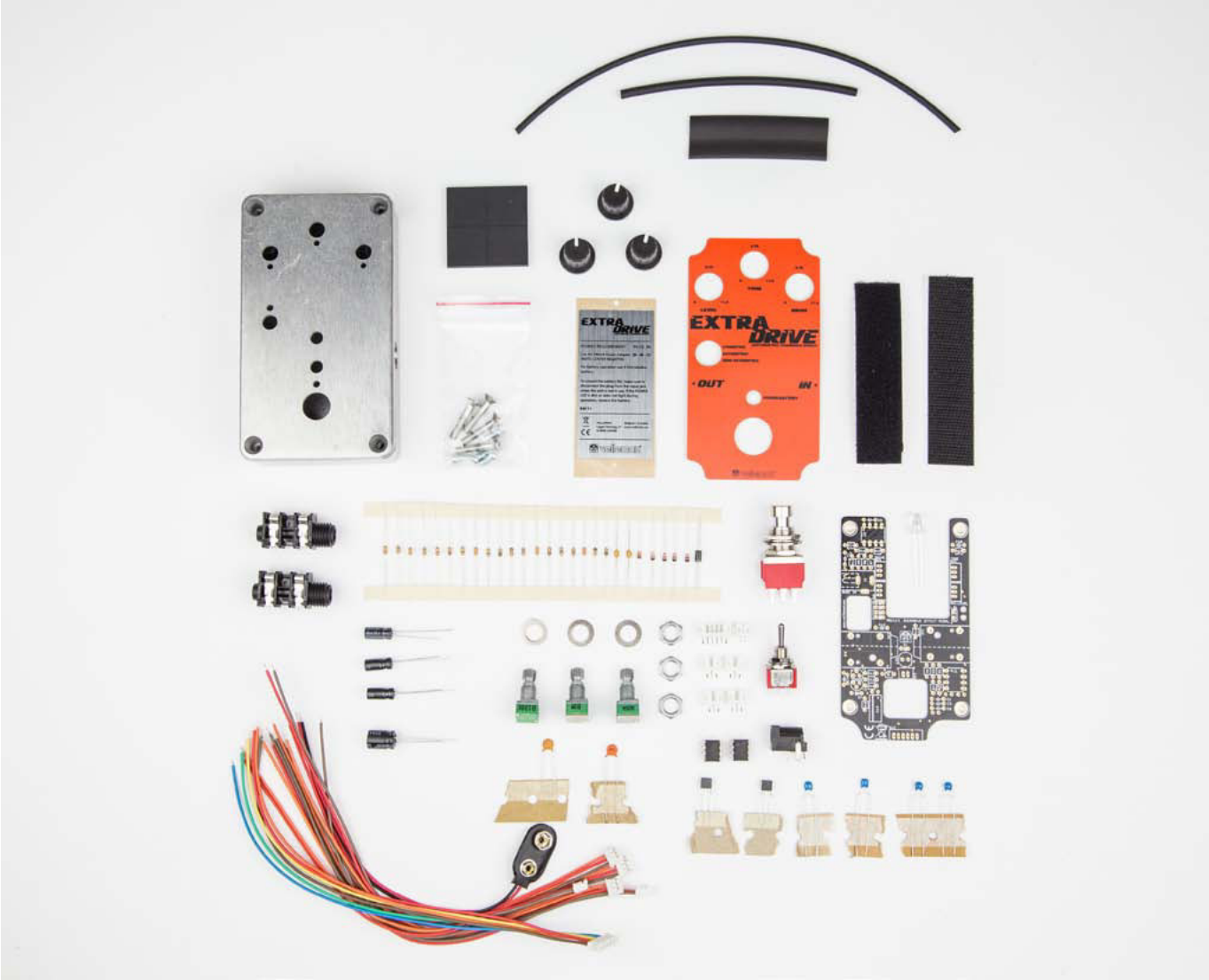
Let’s get started!

WHAT'S IN THE BOX



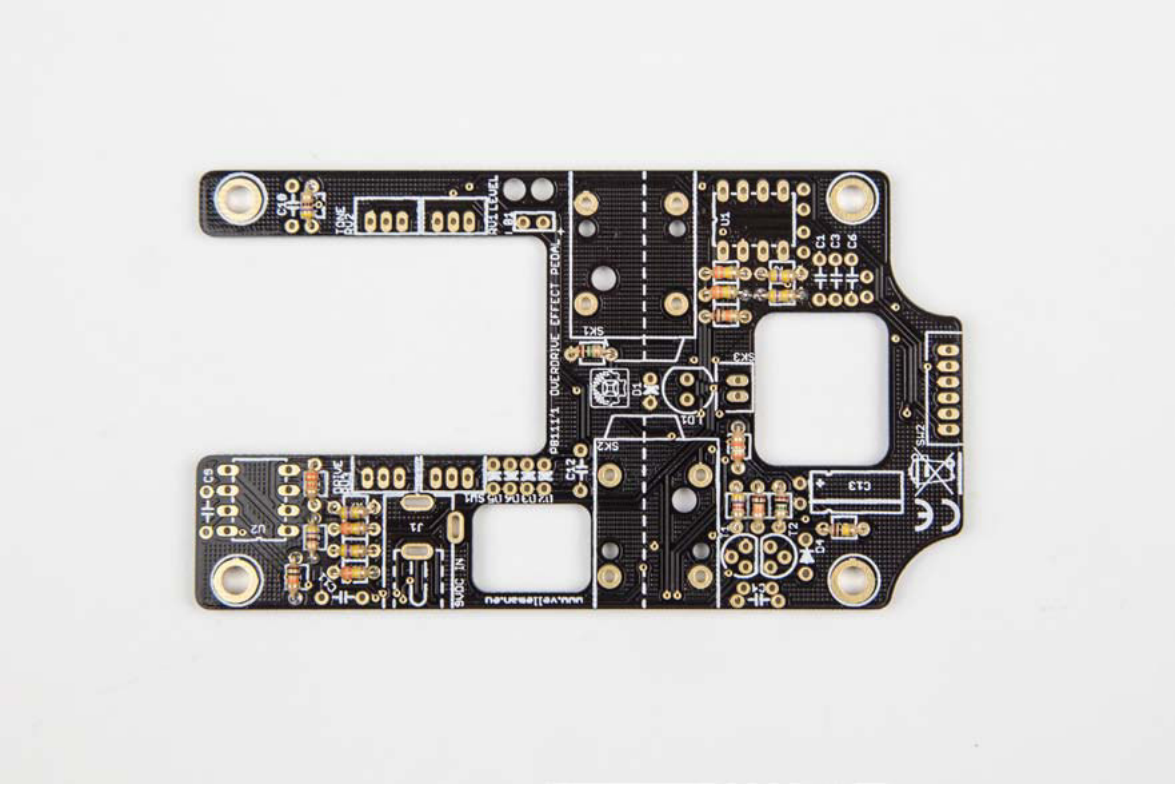
ASSEMBLY INSTRUCTIONS

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

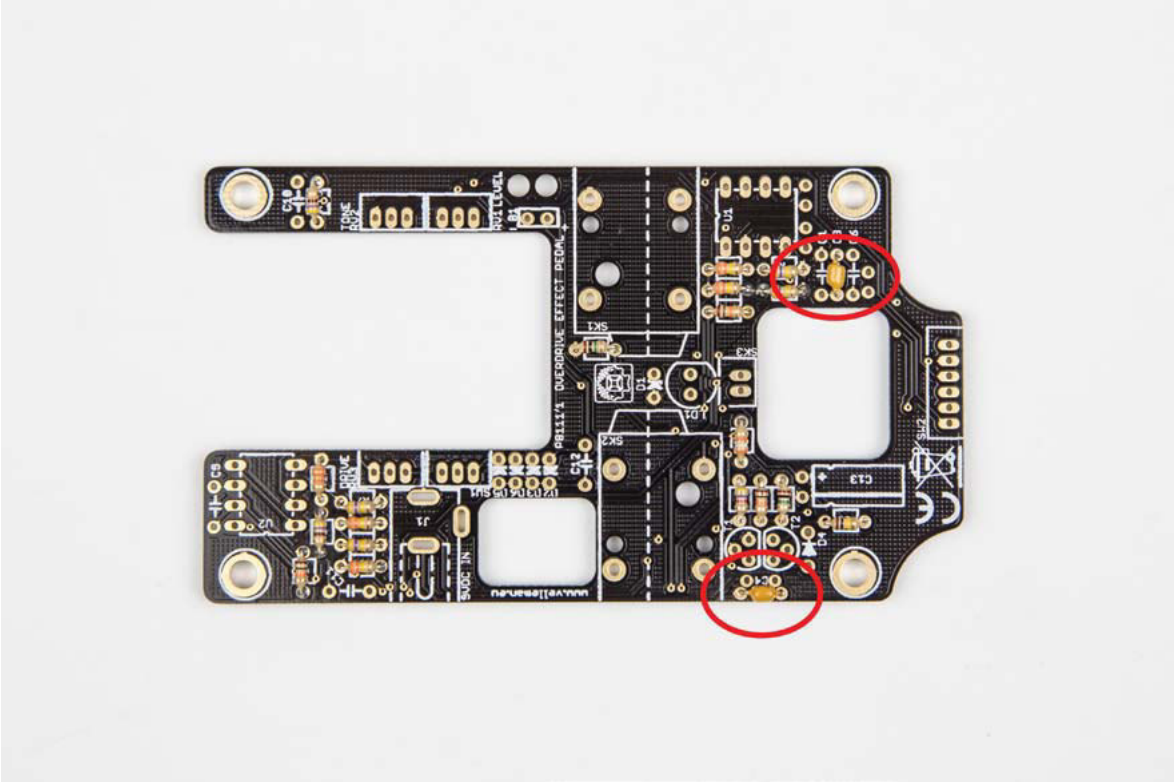
2. All components are placed in the correct order of usage on the supplied tape.
Resistors: R1 to R19

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

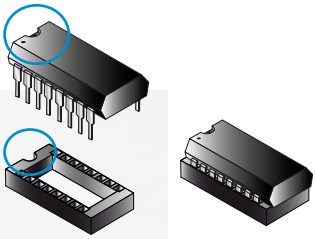


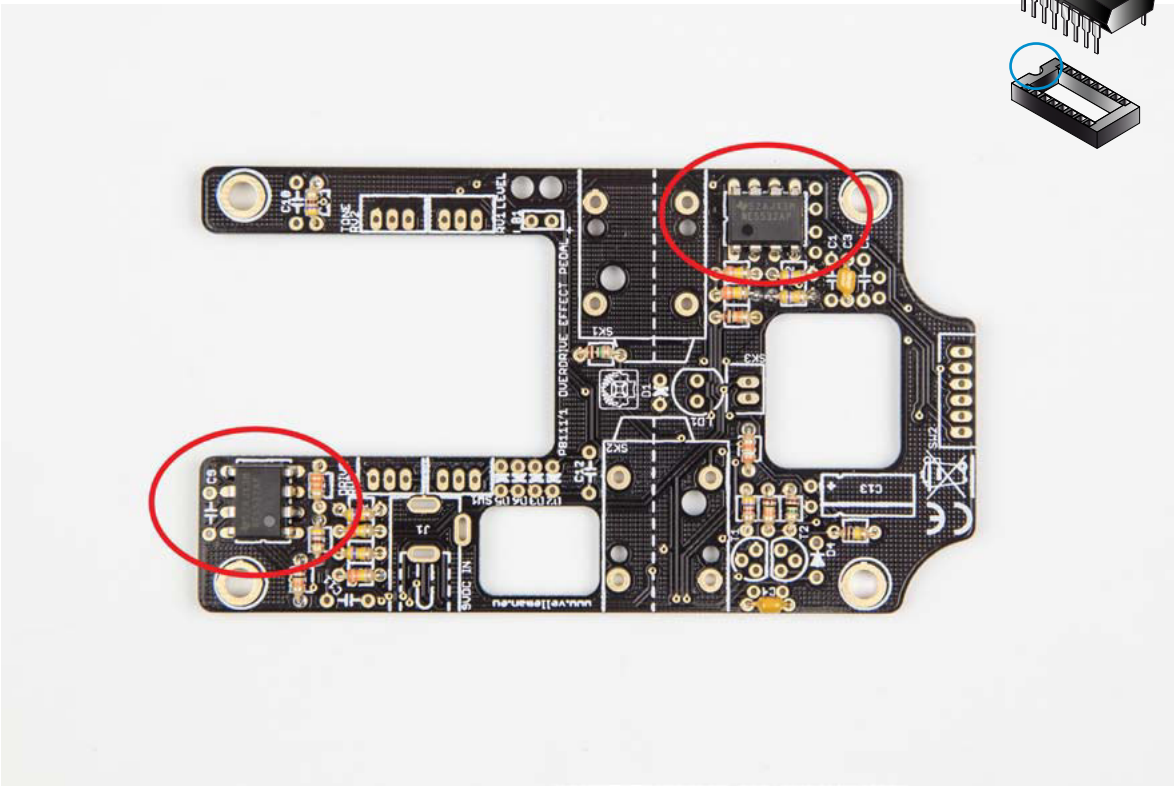
3. **100 µF axial capacitors:** C3, C4



4. **2 x IC:** U1 and U2

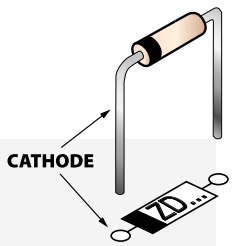
Note the orientation of the IC's!

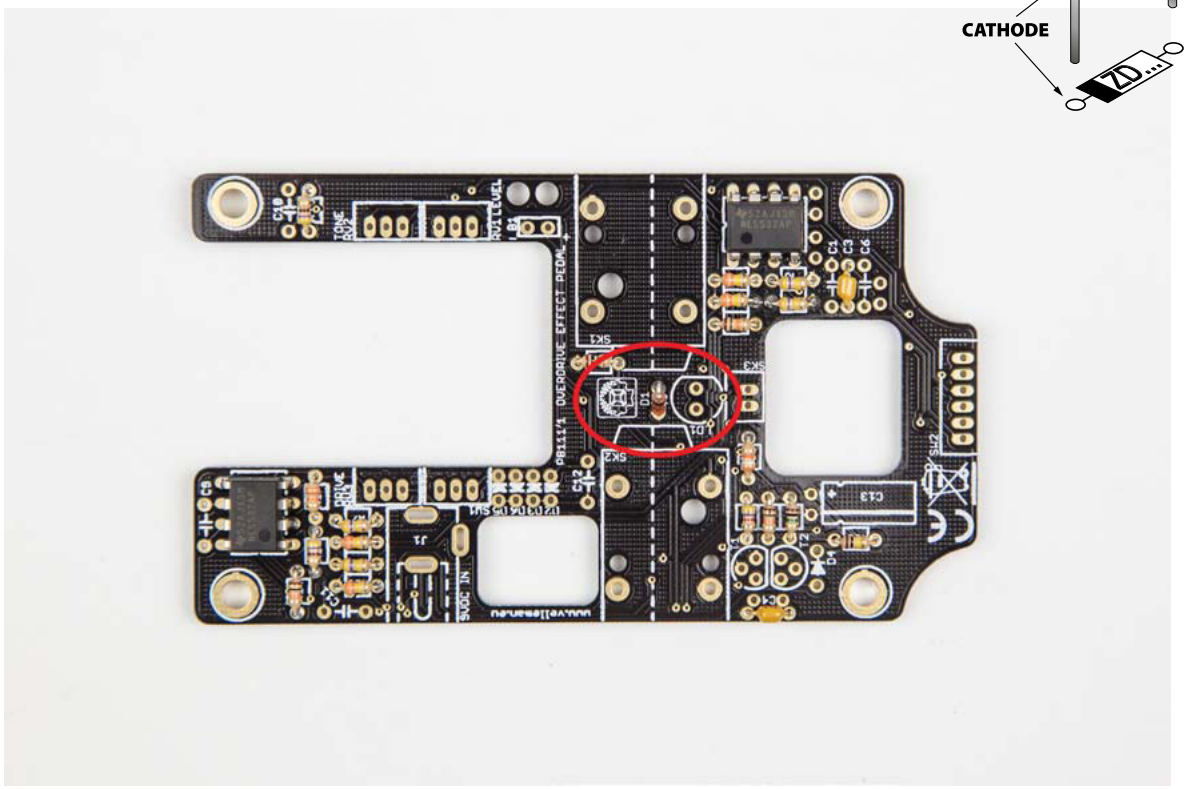


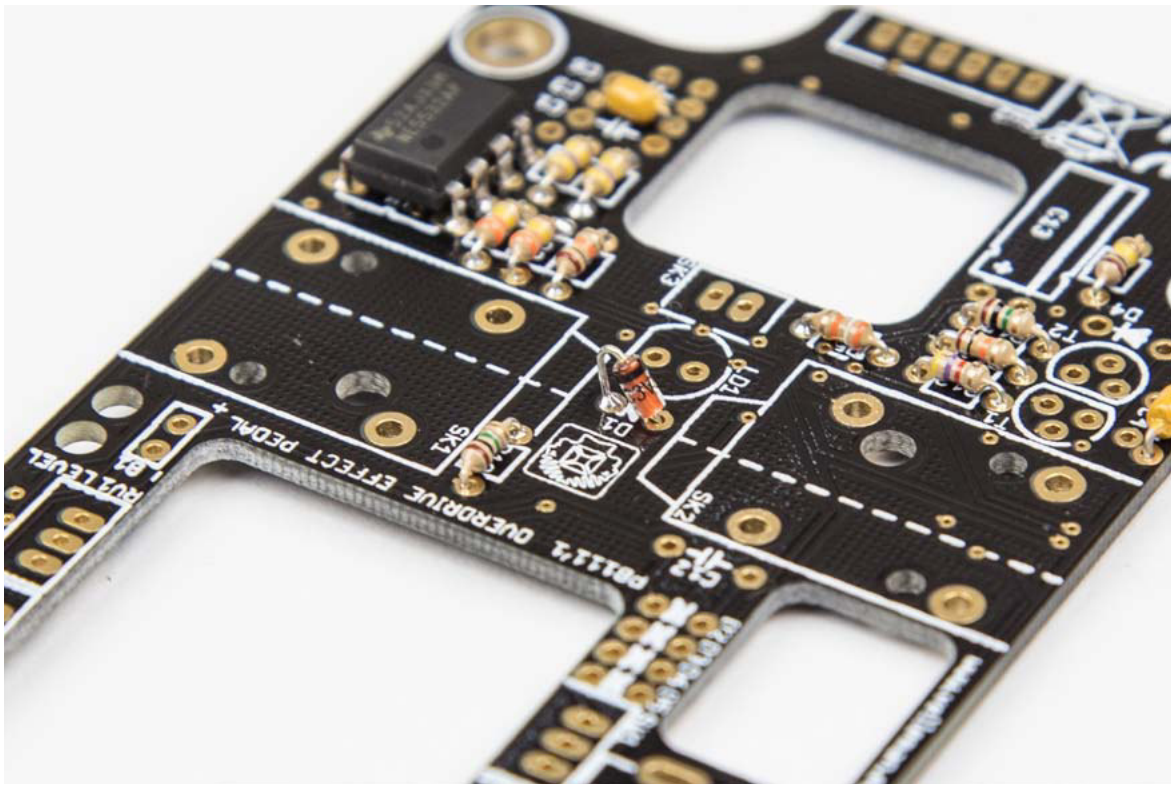


5. **Zenerdiode:** ZD1

Note the orientation of the zenerdiode!

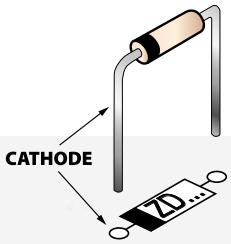


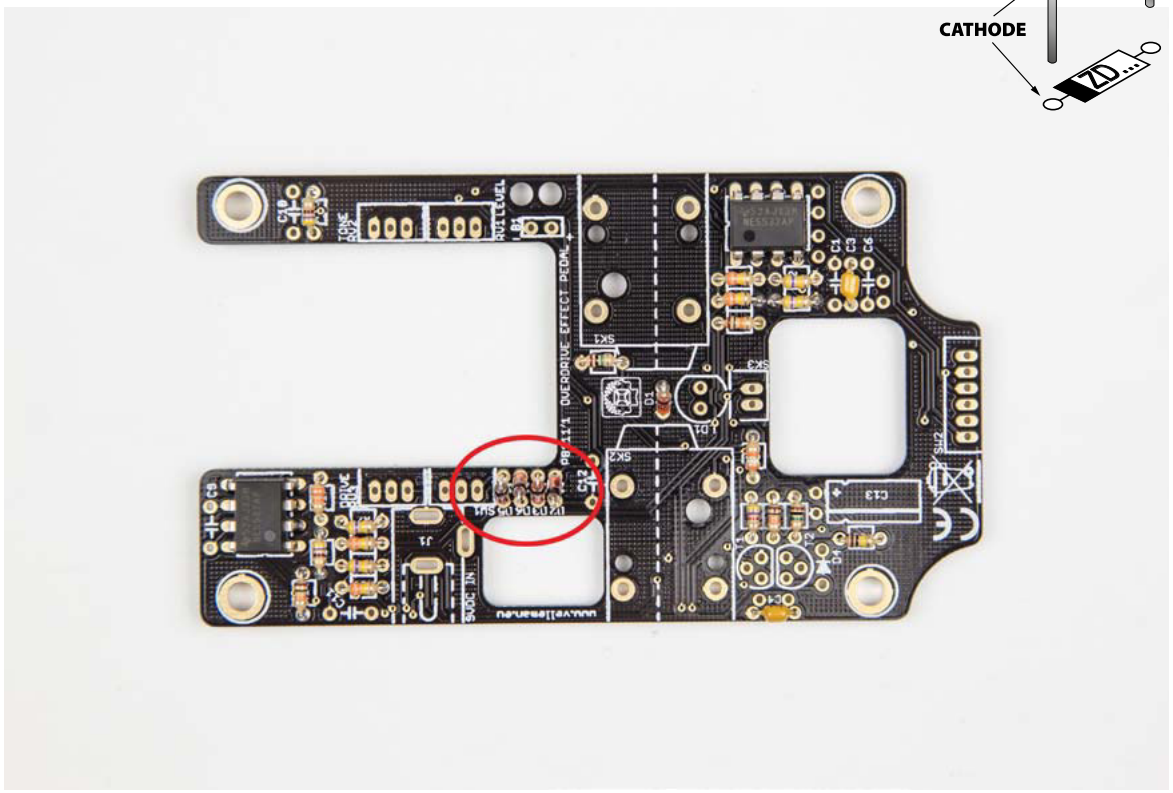


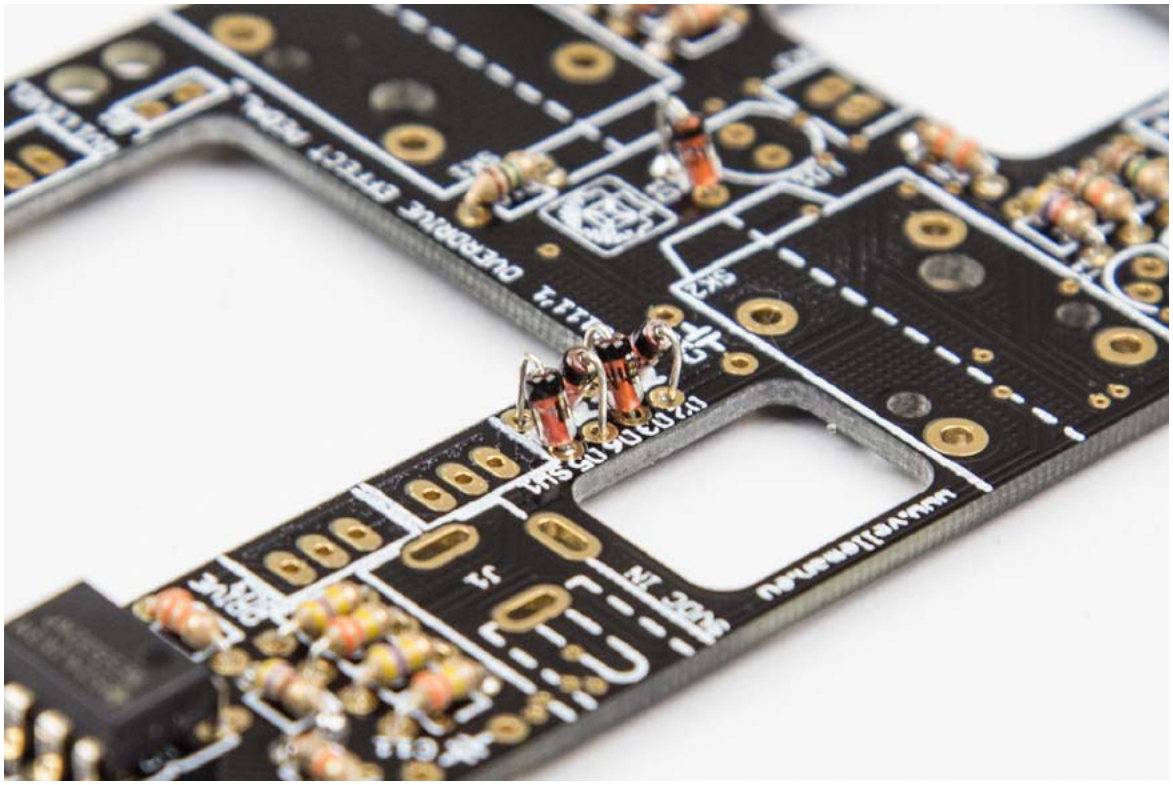


6. Diodes: D2, D3, D5 and D6

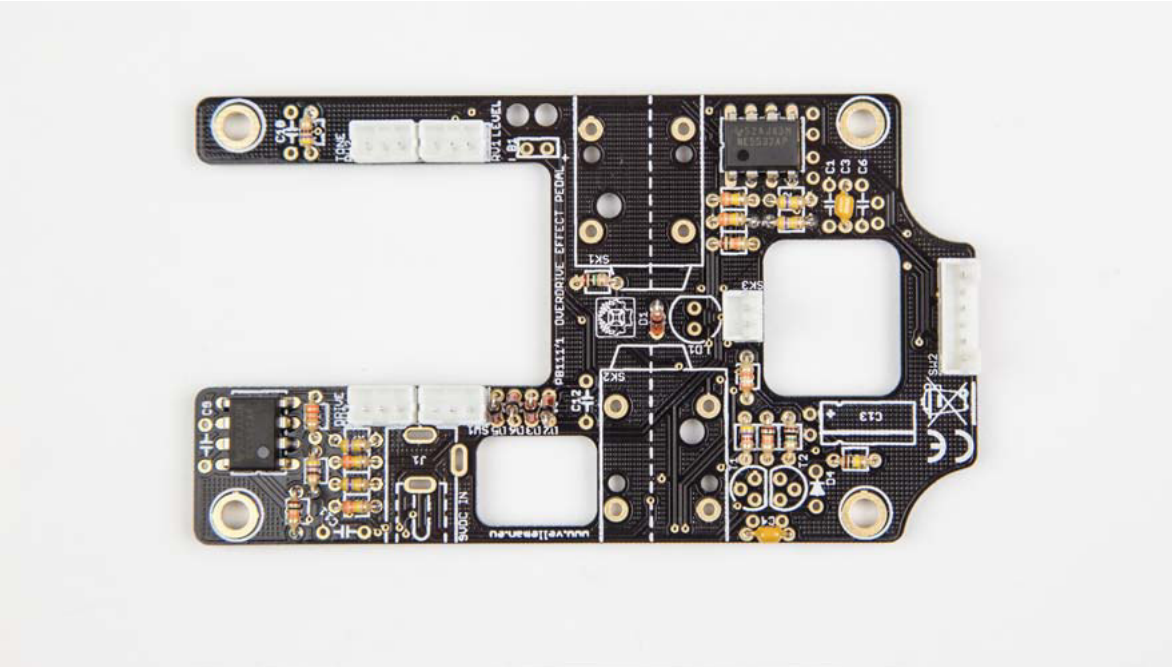
Note the orientation of the diode!





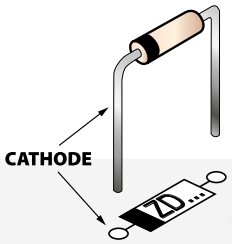


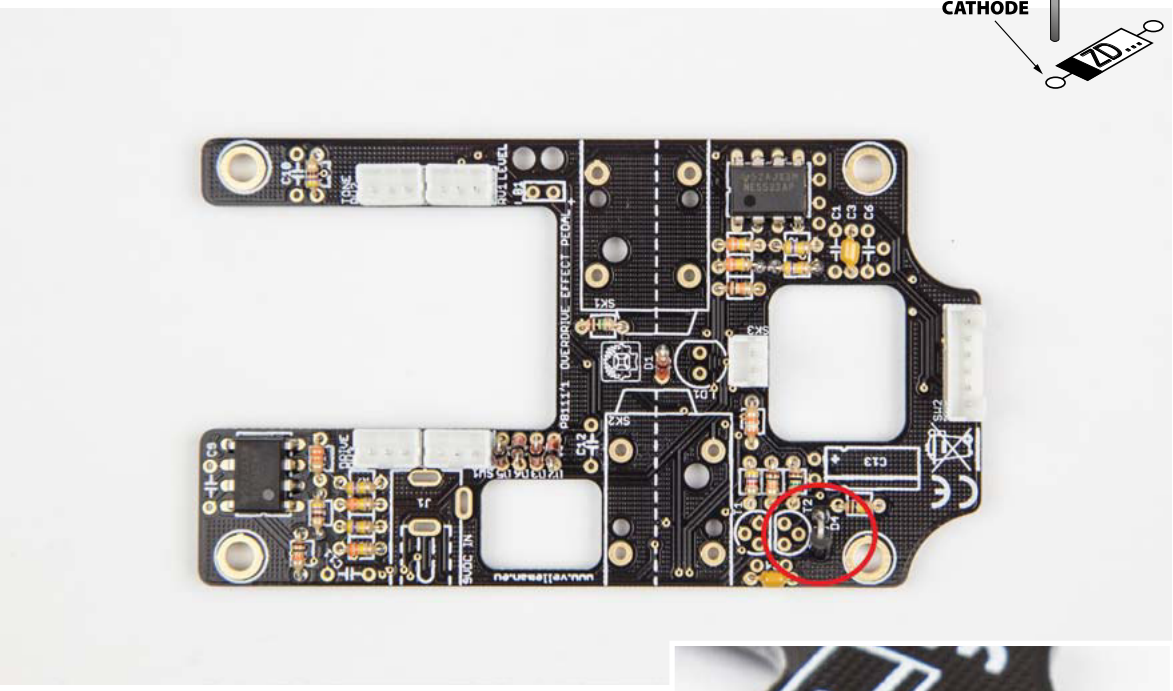
7. Male connectors: SW1; SW2, RV1; RV2, RV3 and SK3



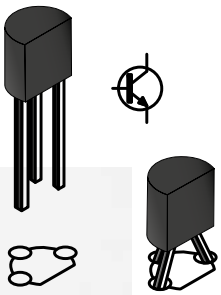
8. **Diode 1N4007:** D4

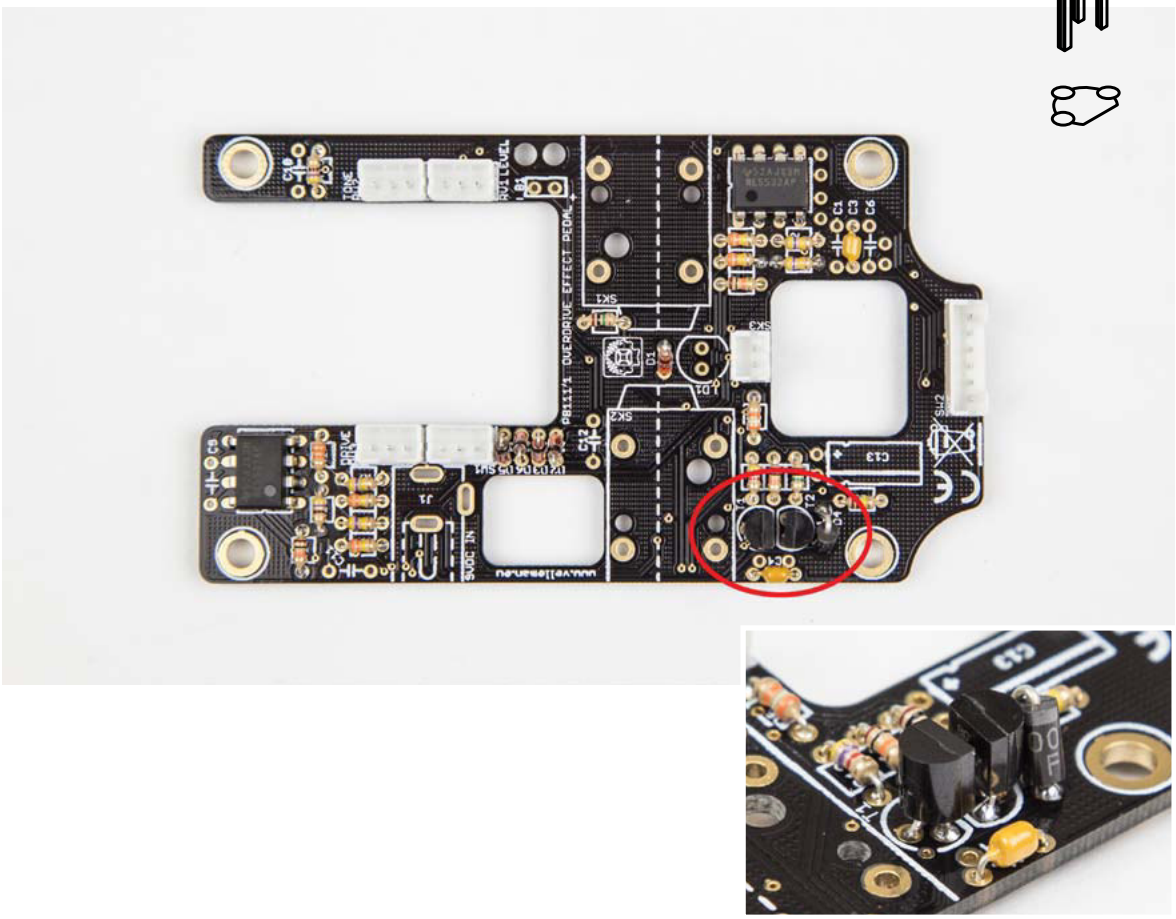
Note the orientation of the diode!



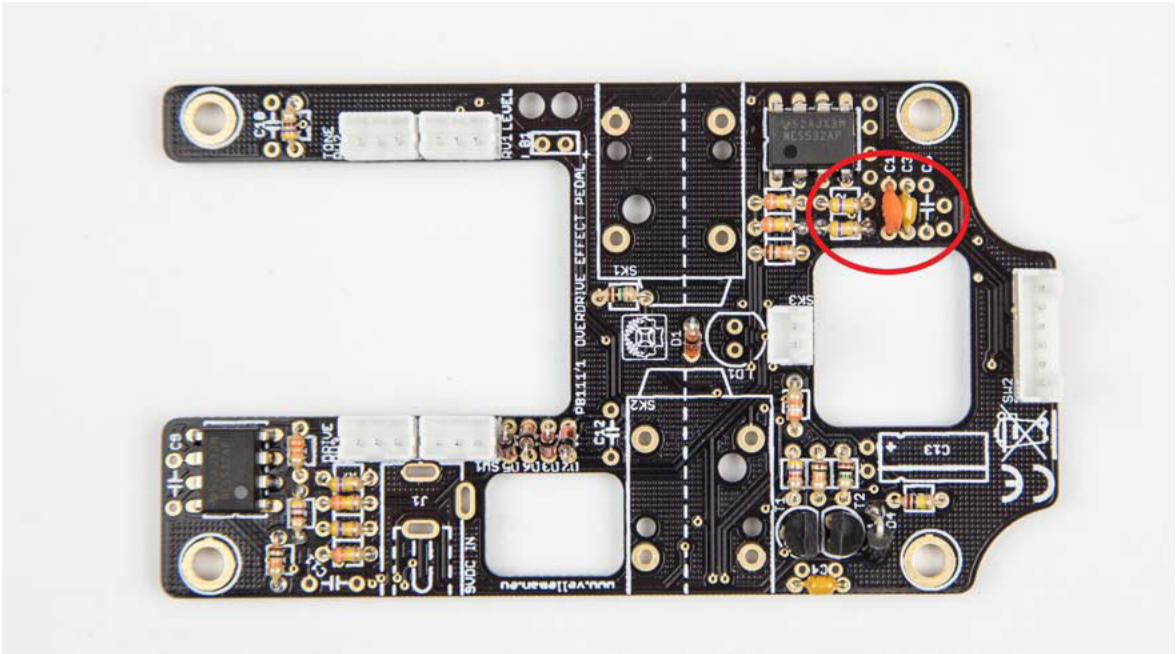


9. **BC547:** T1
   BC557: T2

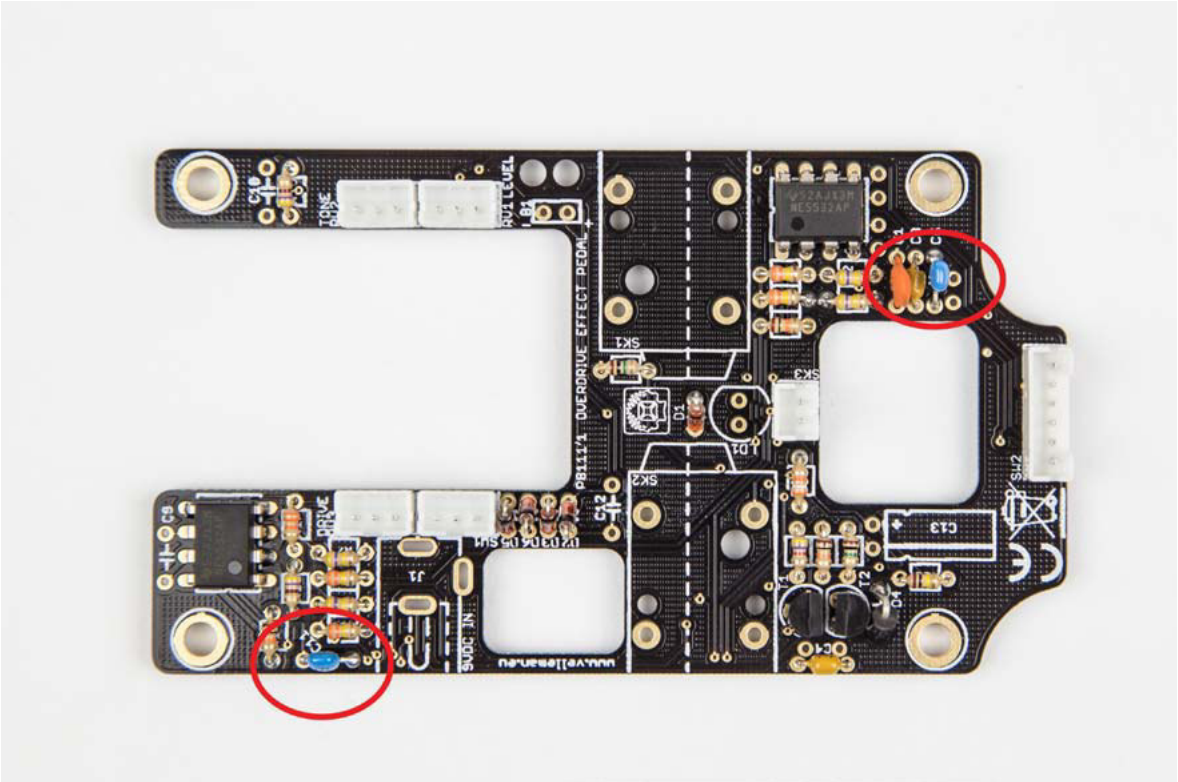




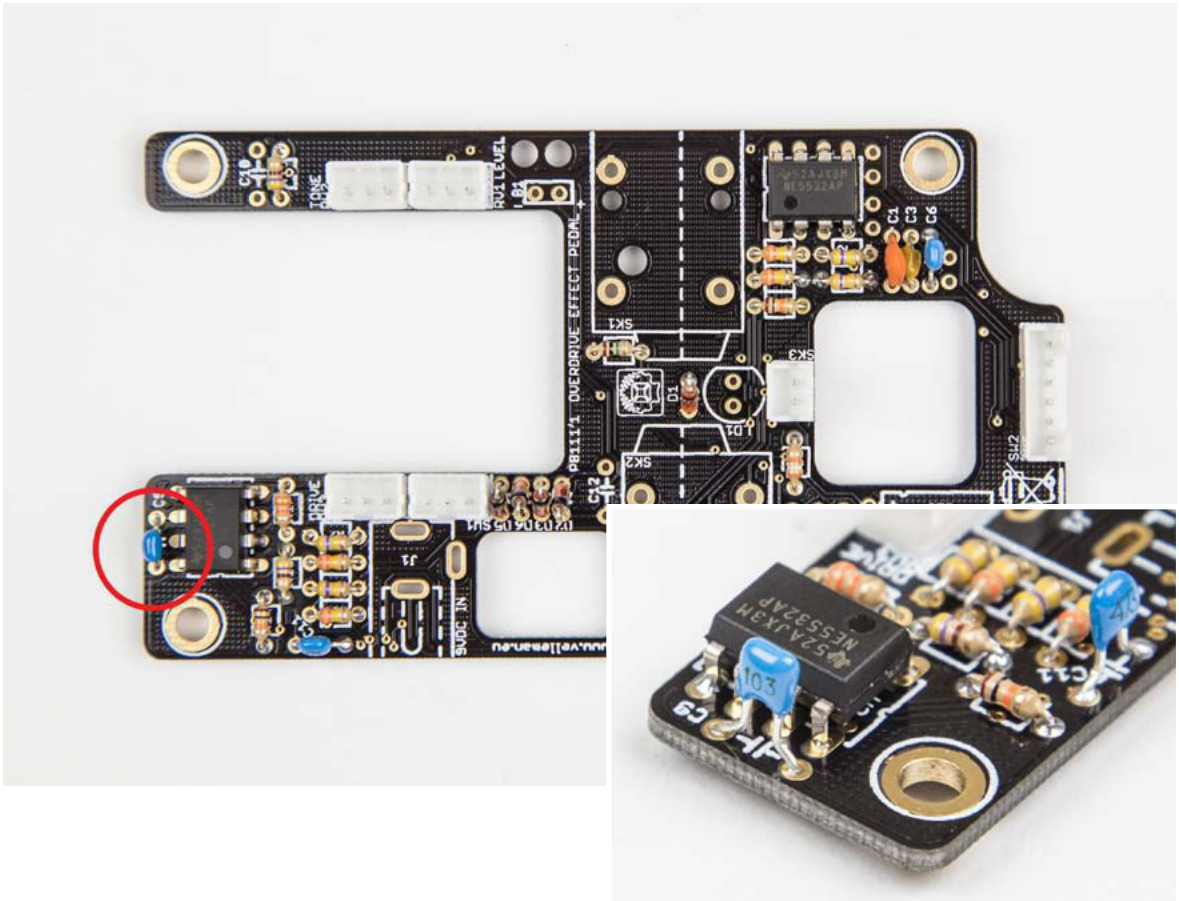
10. **Capacitor 471:** C1



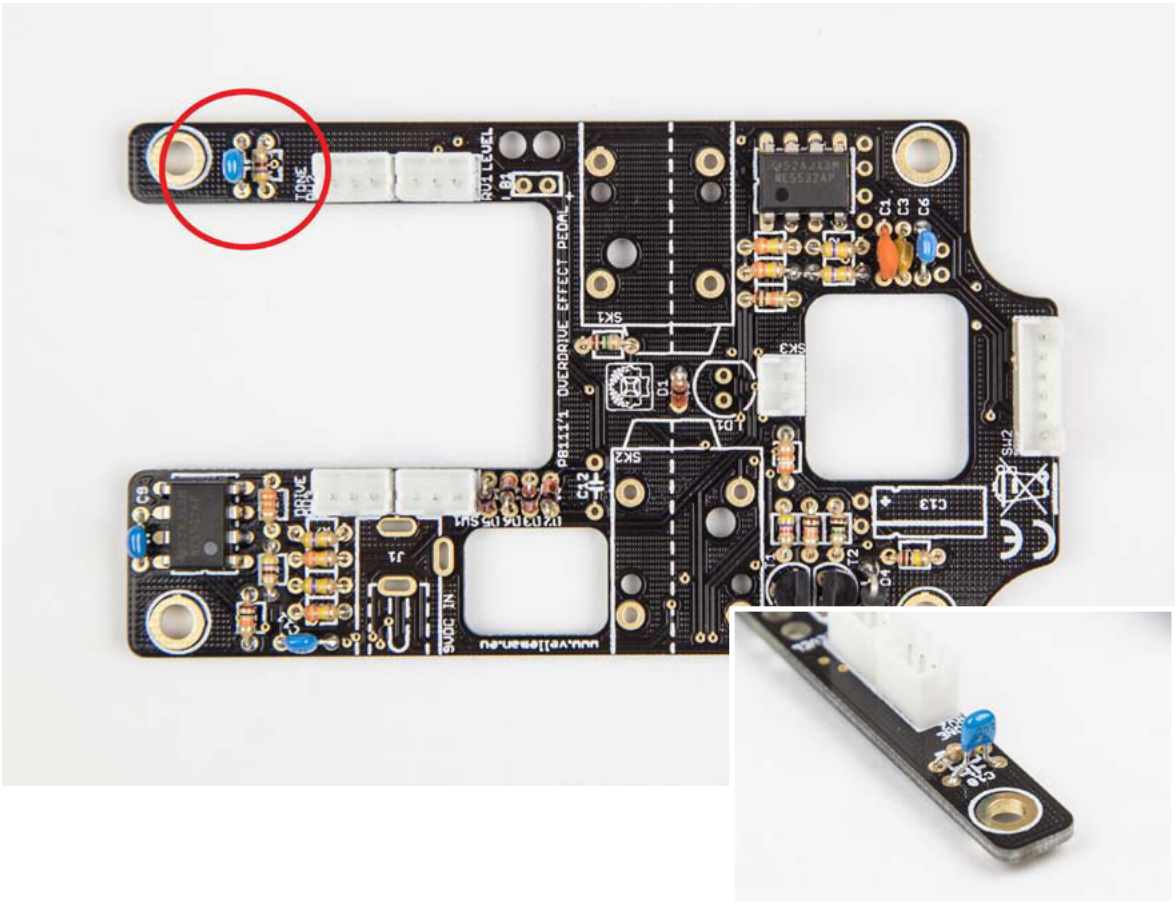
11. **Capacitor 473:** C6 and C11



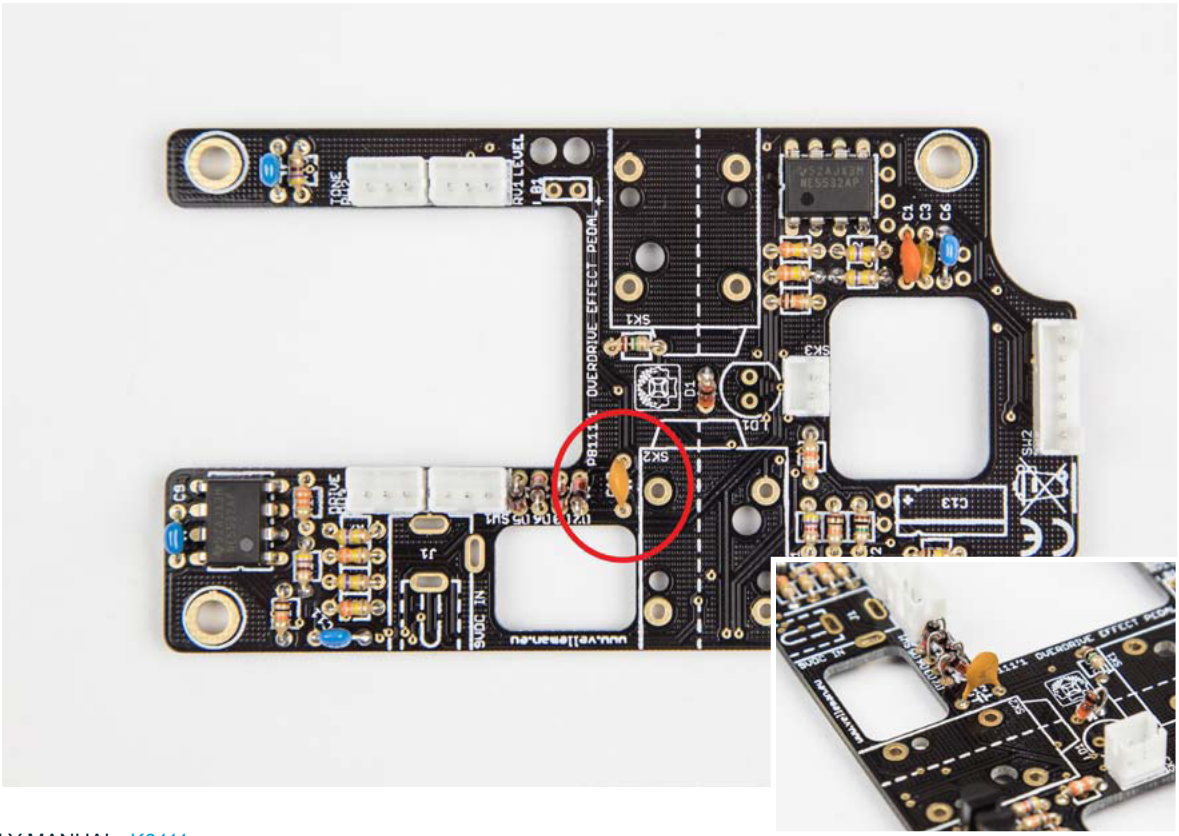
12. **Capacitor 103:** C9



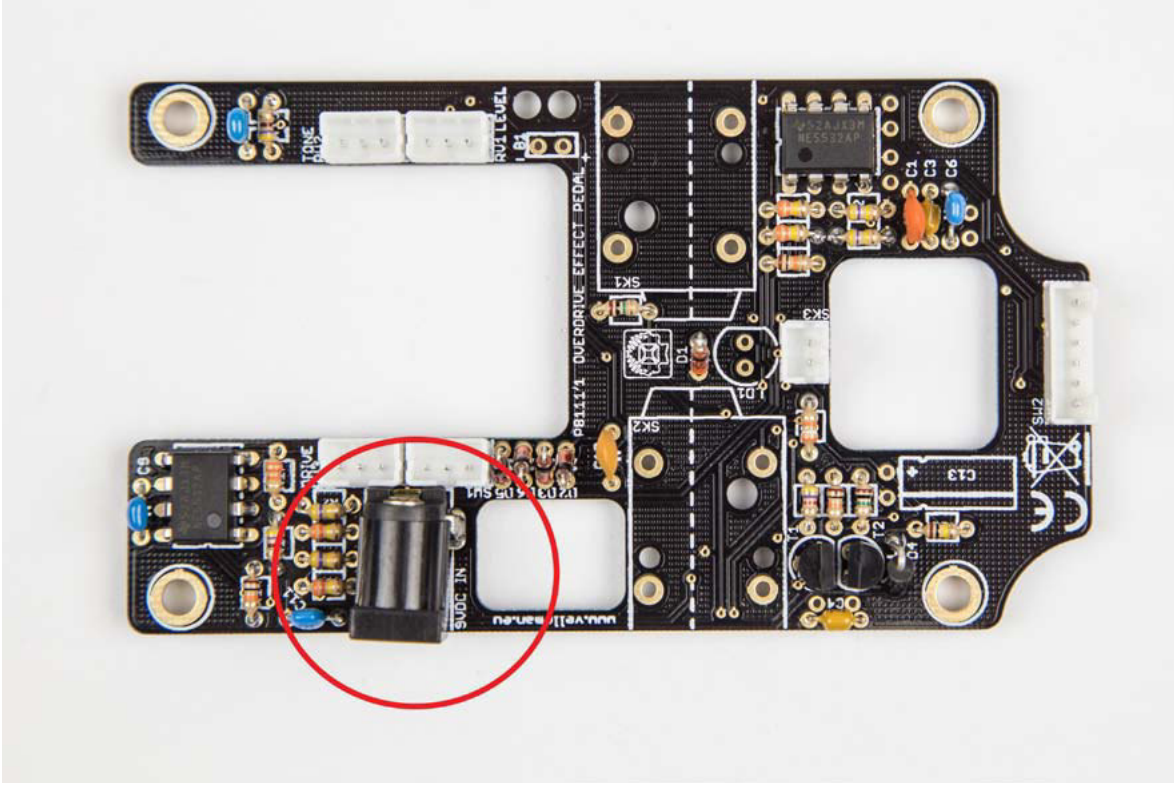
13. **Capacitor 223:** C10



14. **Capacitor 47:** C12

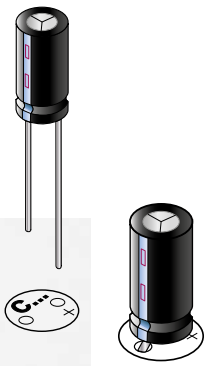


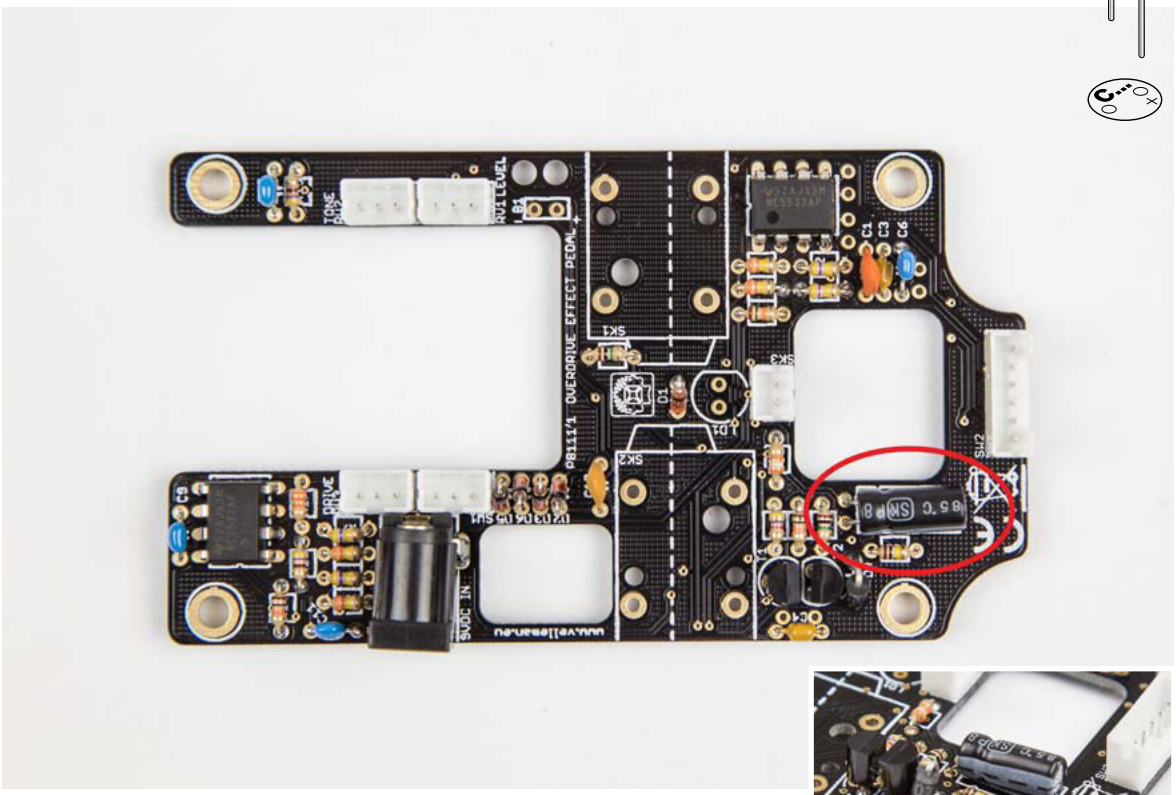
15. **DC jack:** J1 SVDC IN



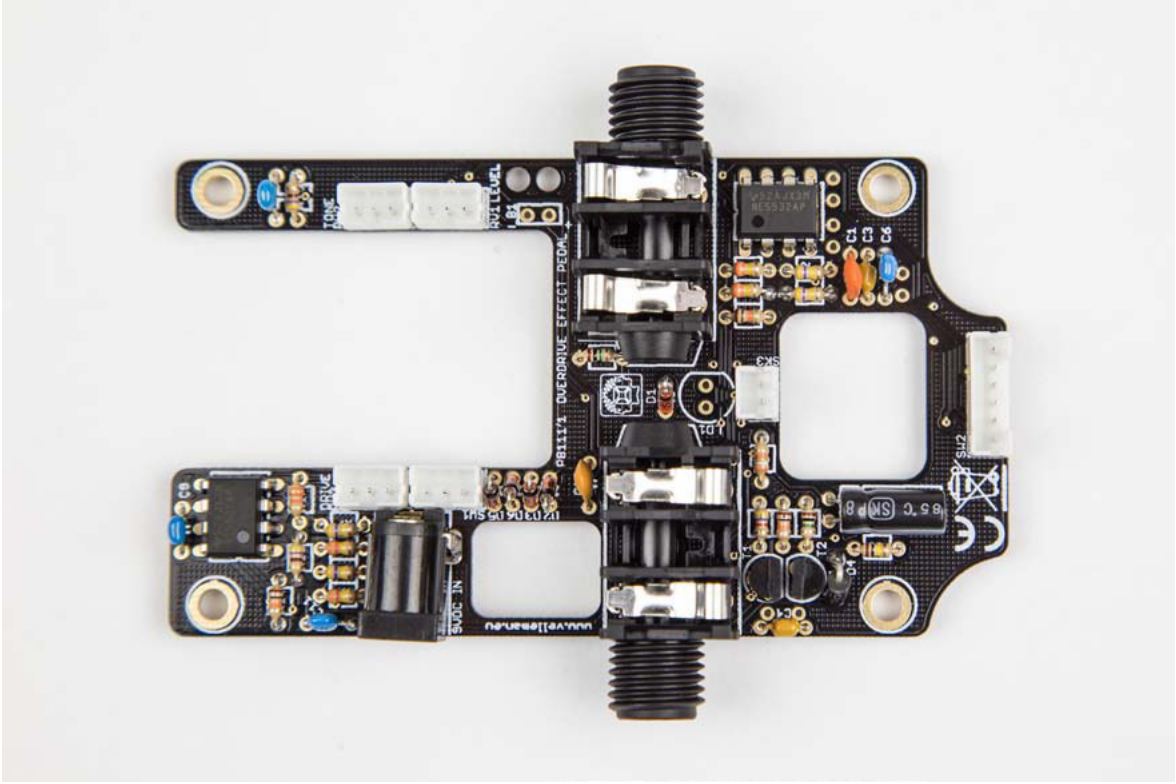
16. **Capacitor 10 µF:** C13

Note the polarity!





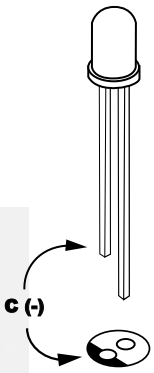
17. **2 x Audio jack:** SK1 and SK2

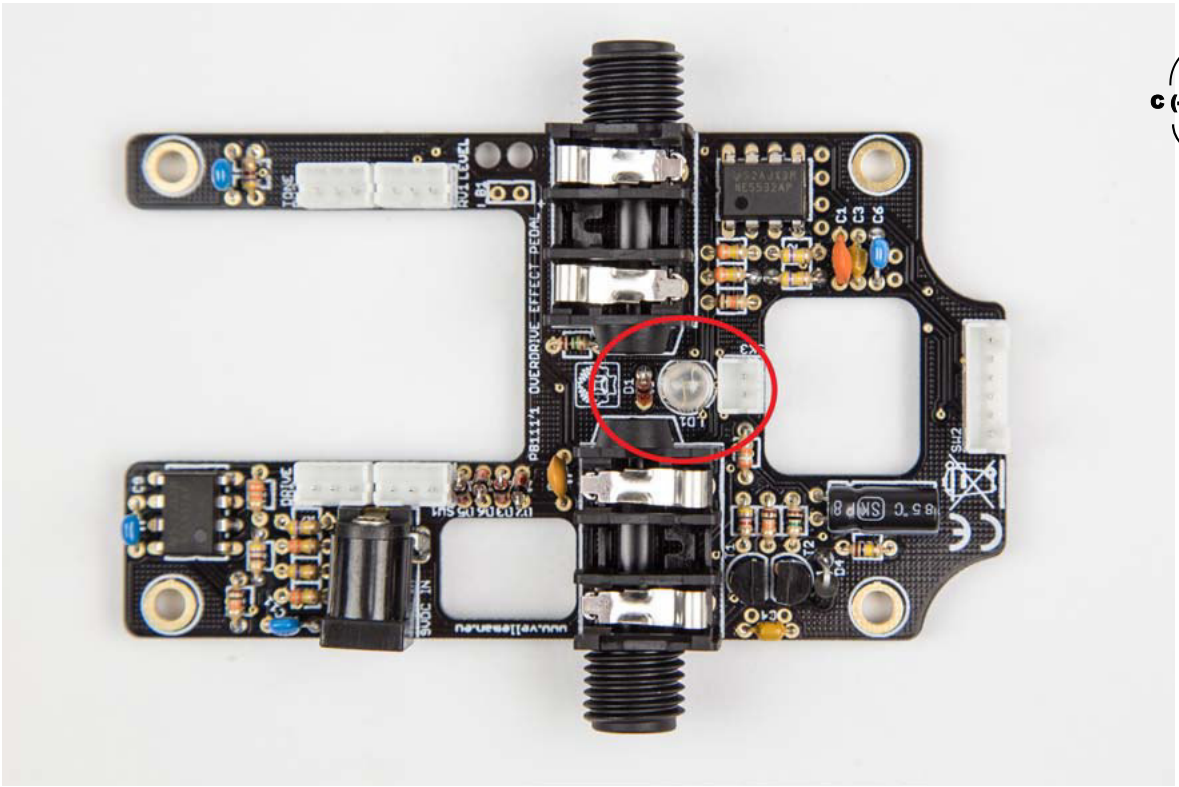


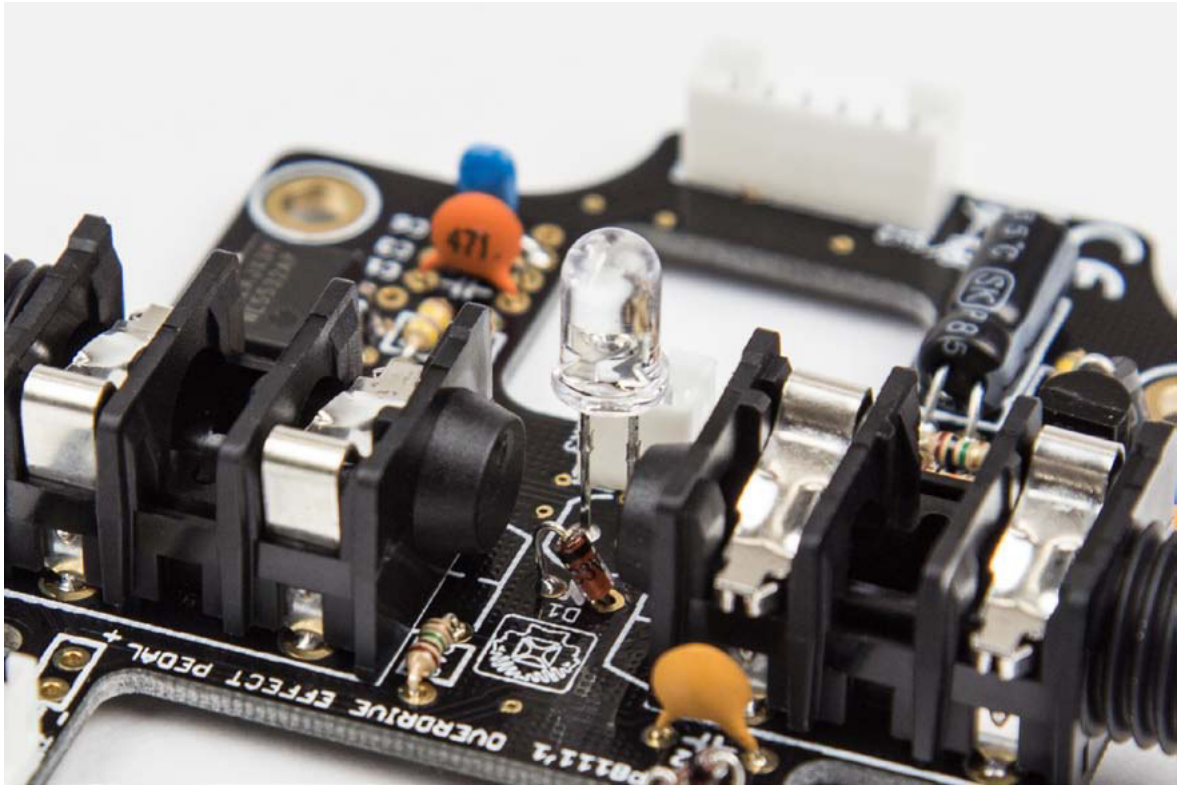
18. **5 mm blue LED:** LD1 (do a diode test with a multimeter to find the blue LED)

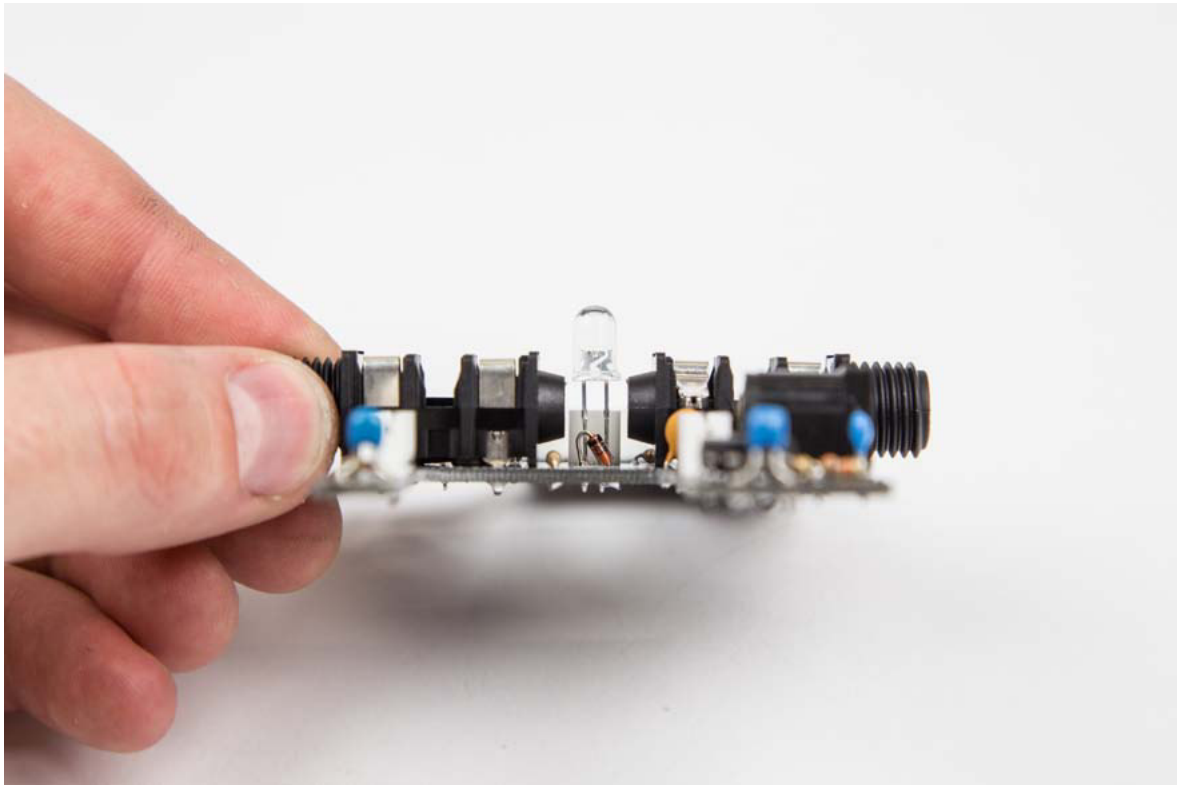
Note the polarity!

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

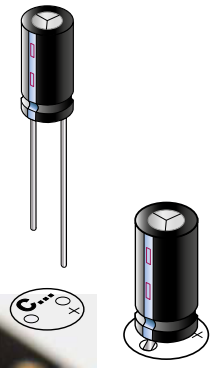





471
D1
OVERDRIVE EFFECT PEDAL

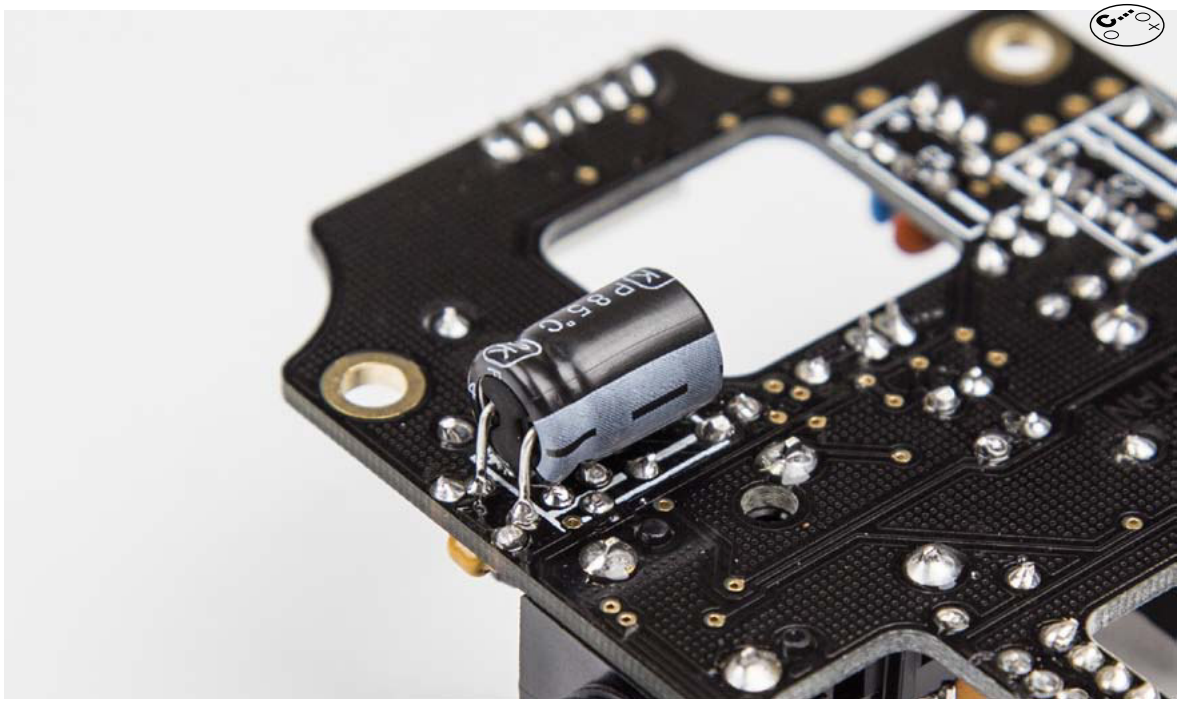


19. **Capacitor 220 µF:** C2

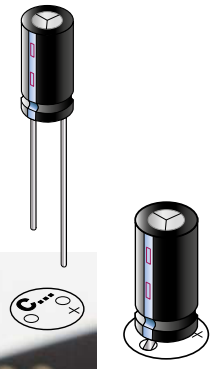


SOLDER ON BOTTOM SIDE OF PCB!

Note the polarity!

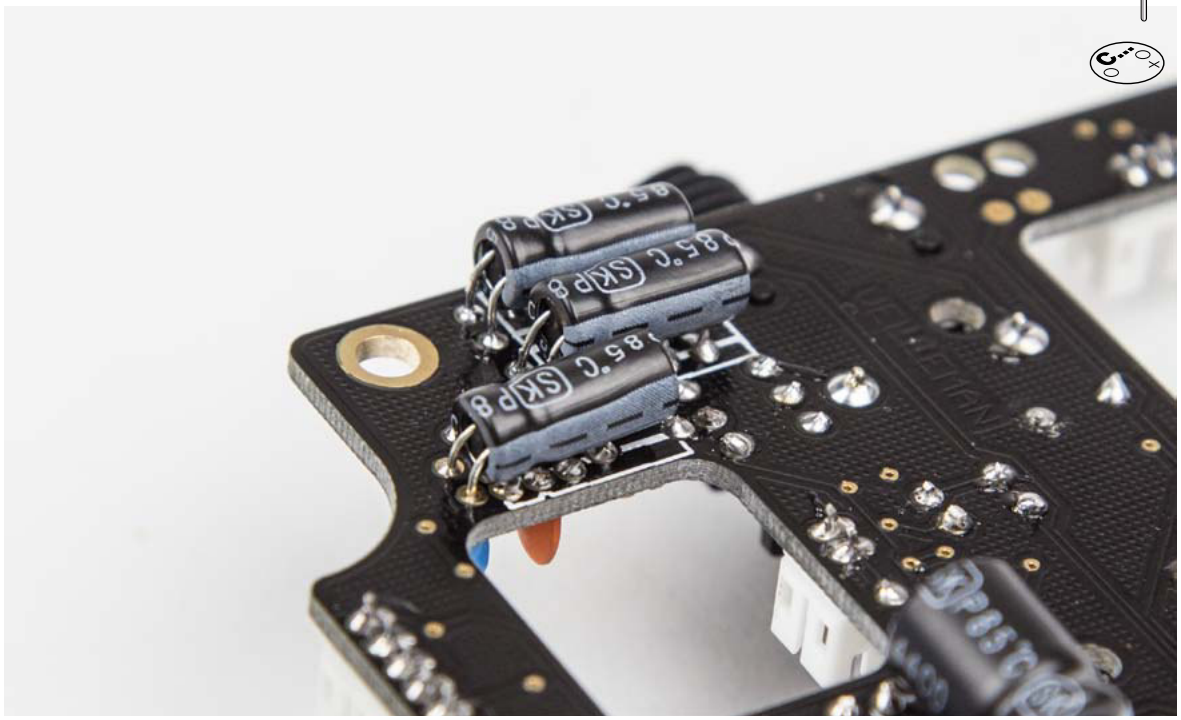


20. **Capacitor 10 µF:** C7, C8 and C12



SOLDER ON BOTTOM SIDE OF PCB!

Note the polarity!

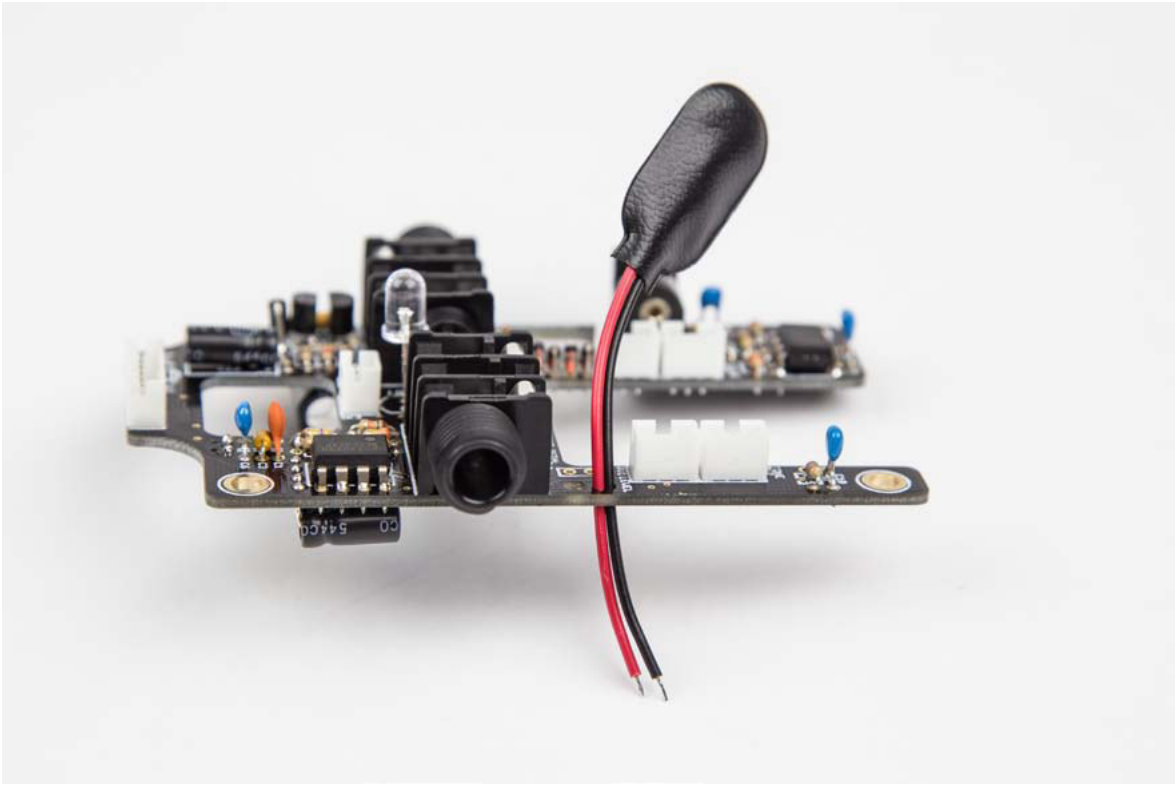


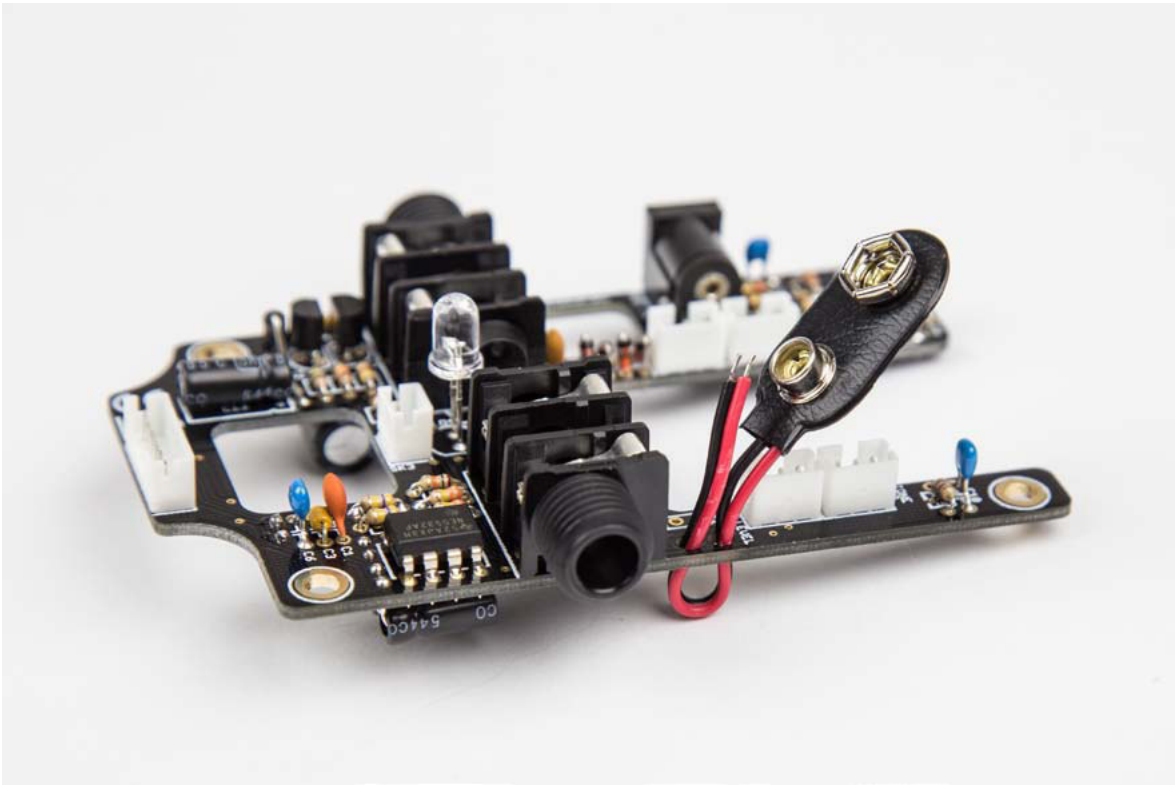
21. Trim the leads on the 9 V snapt to 5 cm.

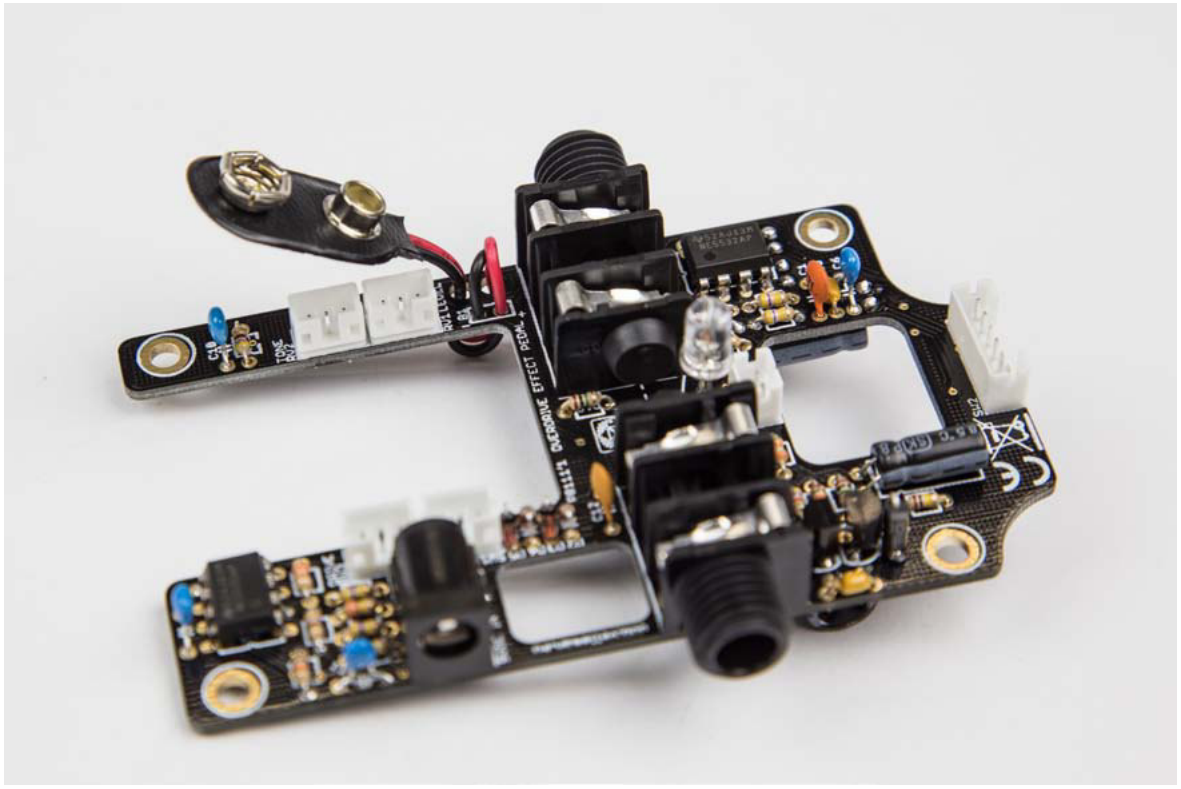
22. Strip and tin both wires

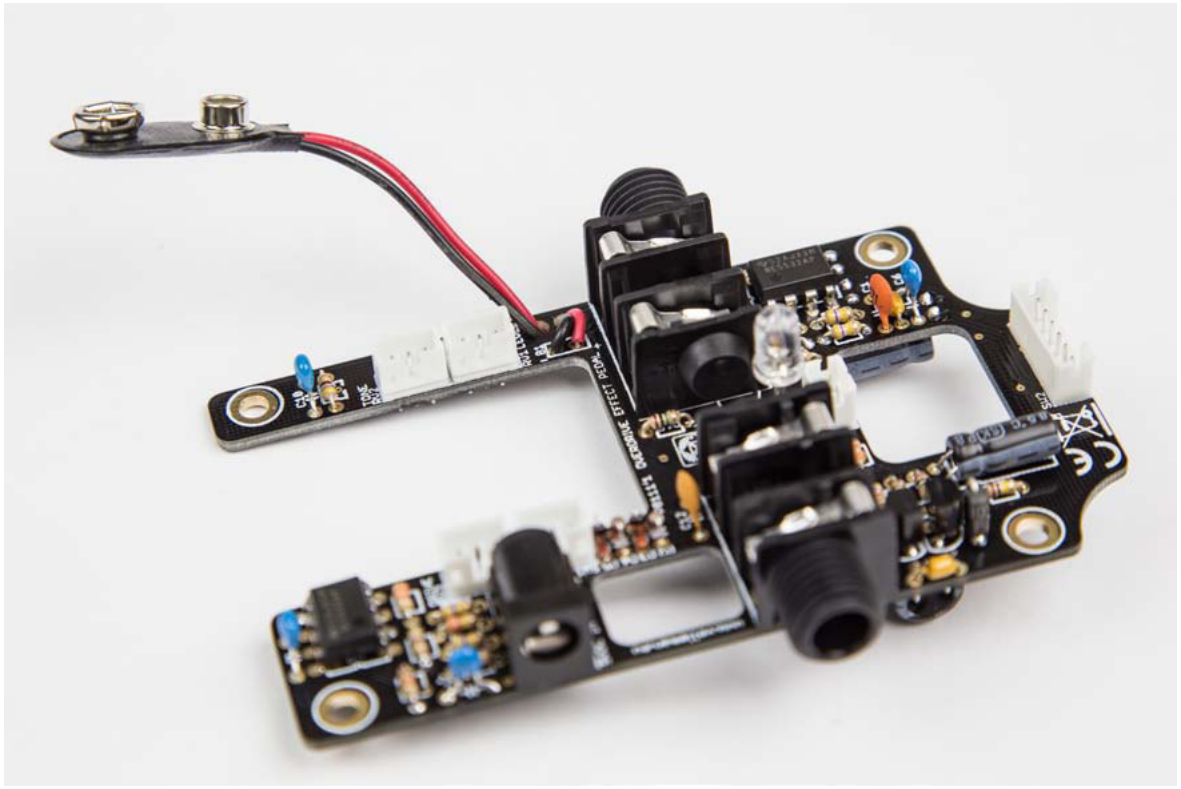
23. Place and solder the 9 V snap to the PCB as shown in the images below.

Note the polarity! RED = +, BLACK = -

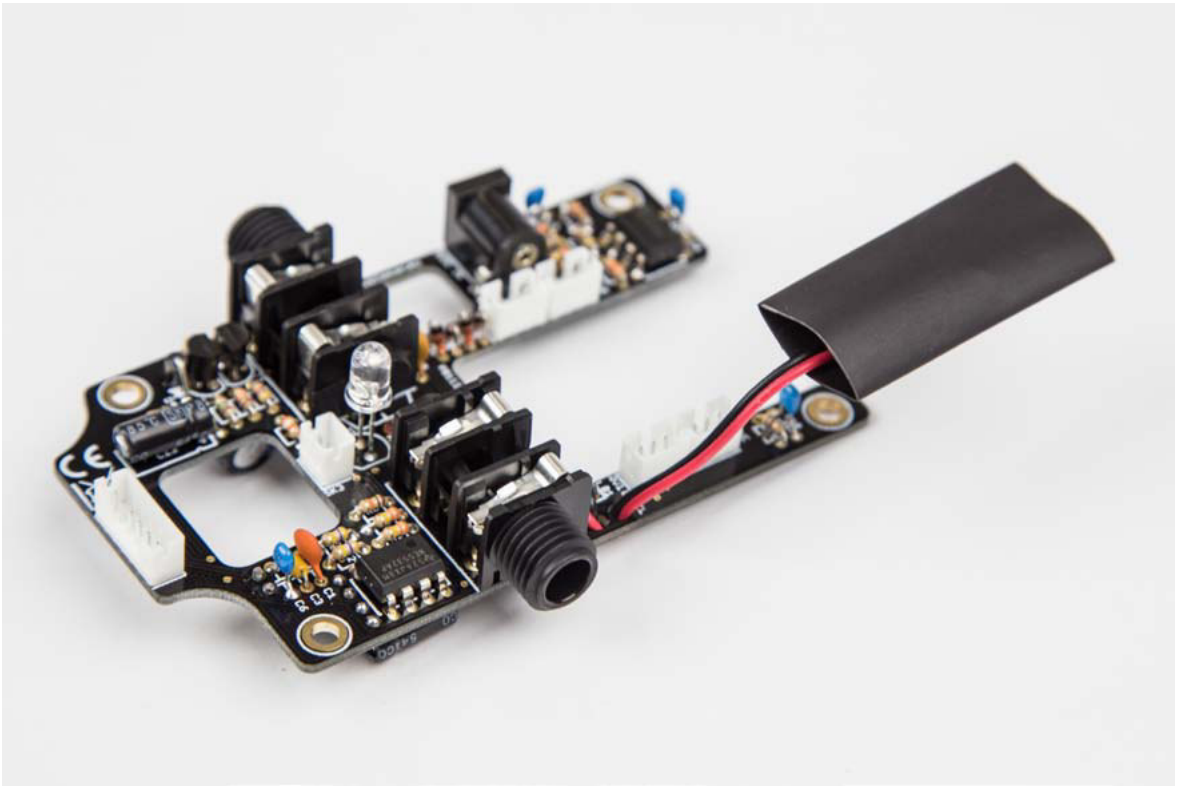


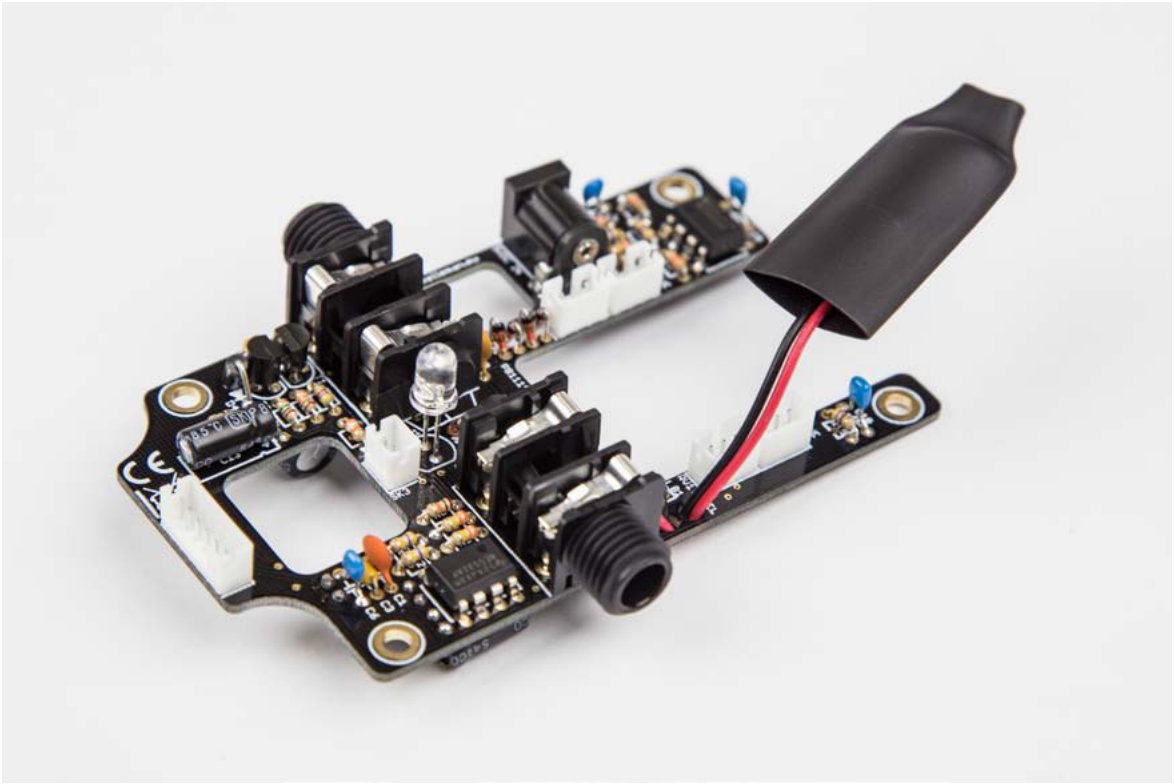






24. Slide 4,5 cm of the biggest shrinktube over the connector. **When no battery is used in the pedal this cover should always be used.**

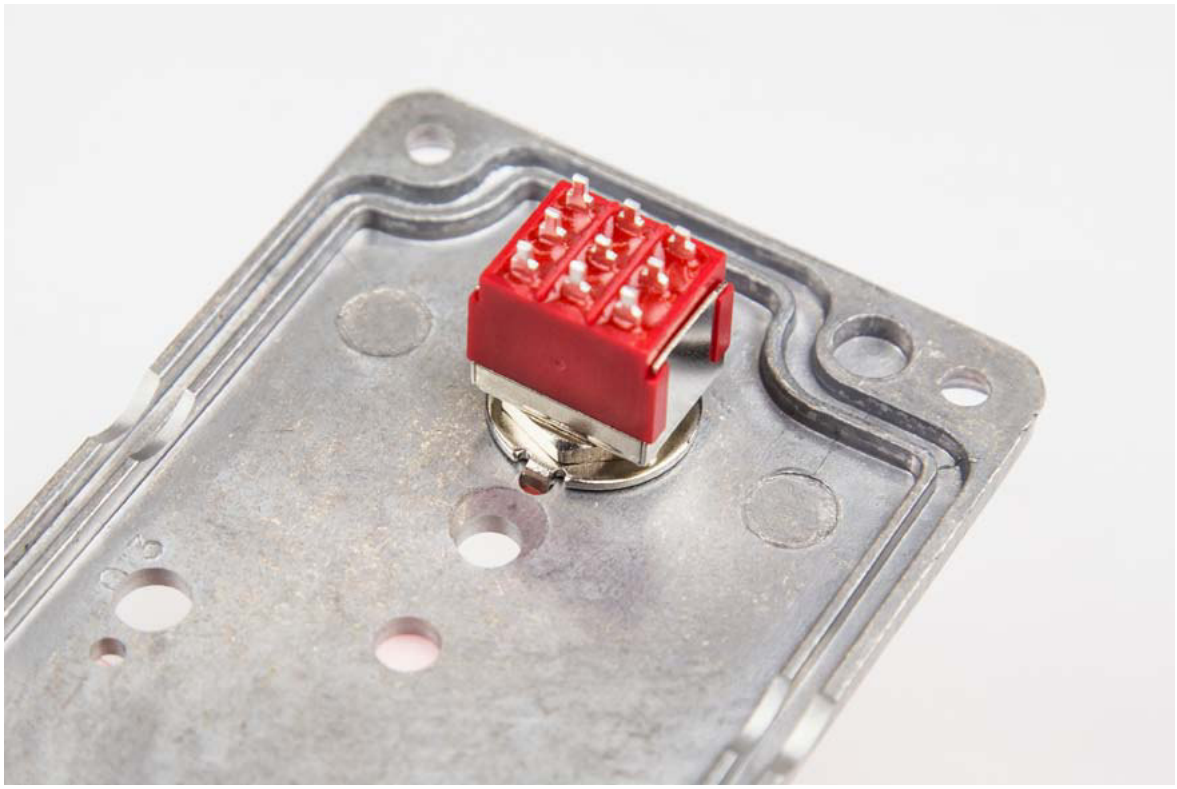




25. Place the finished board into the pedal casing and tighten it down with the supplied screws.

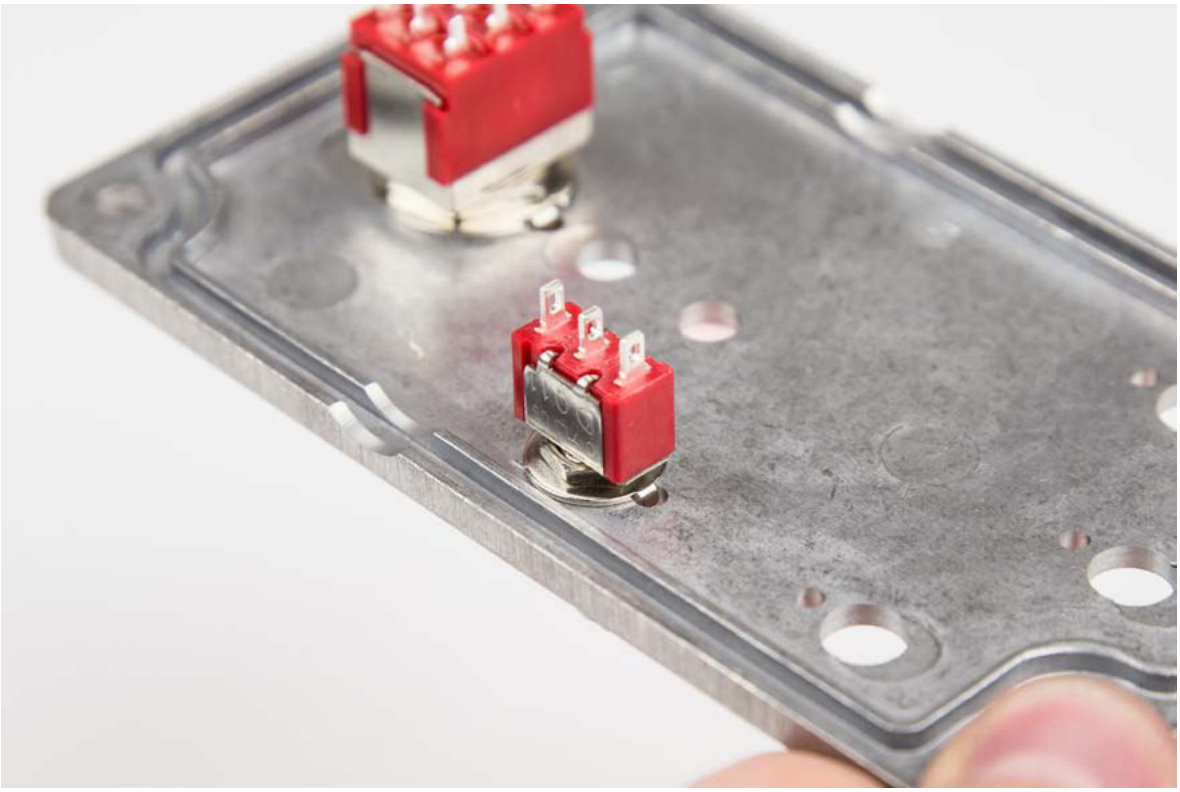
26. Shorten all the pins on the footswitch by 1.5 - 2 mm.

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

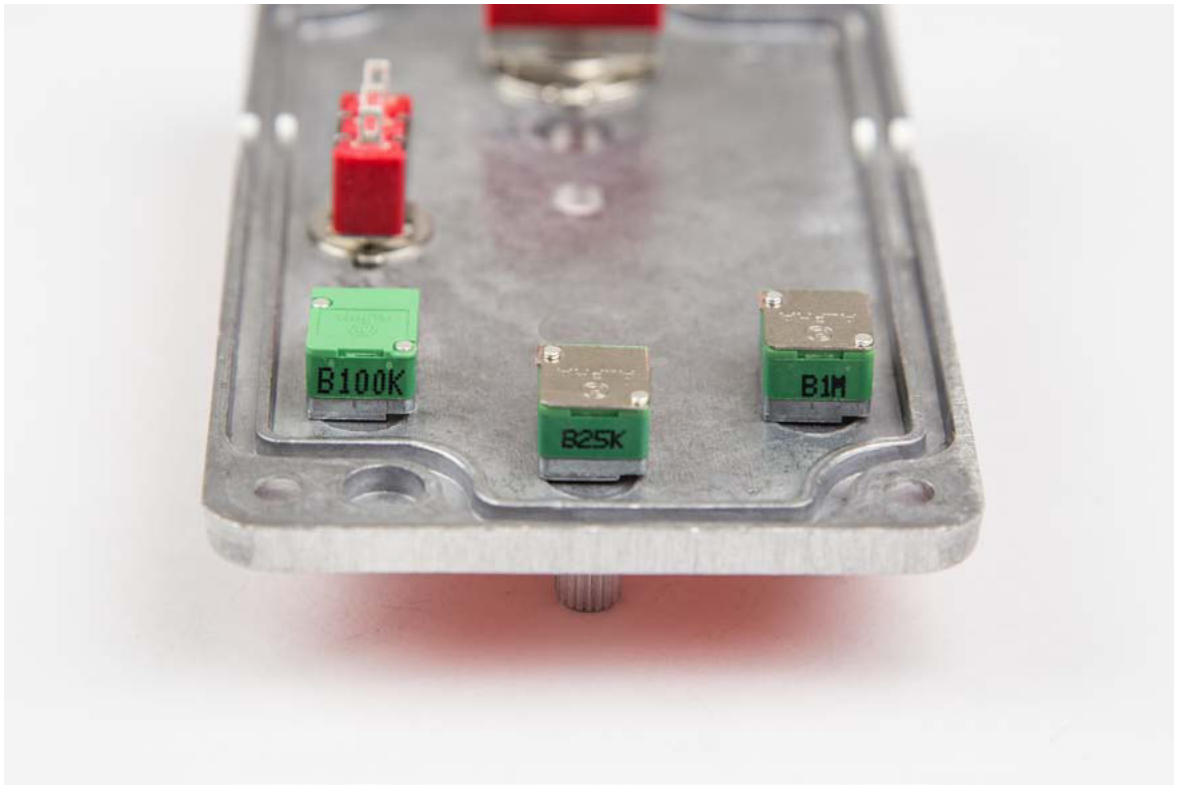



IN
POWER/BATTERY
OUT

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!

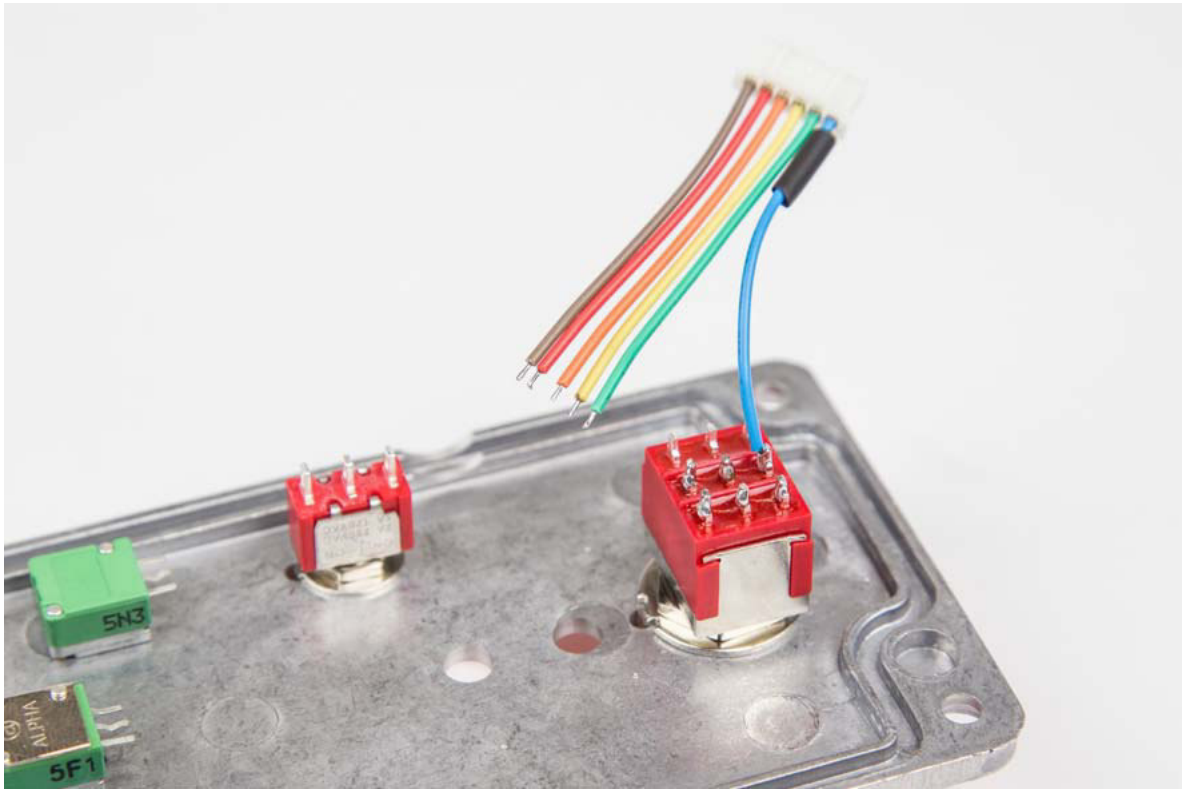


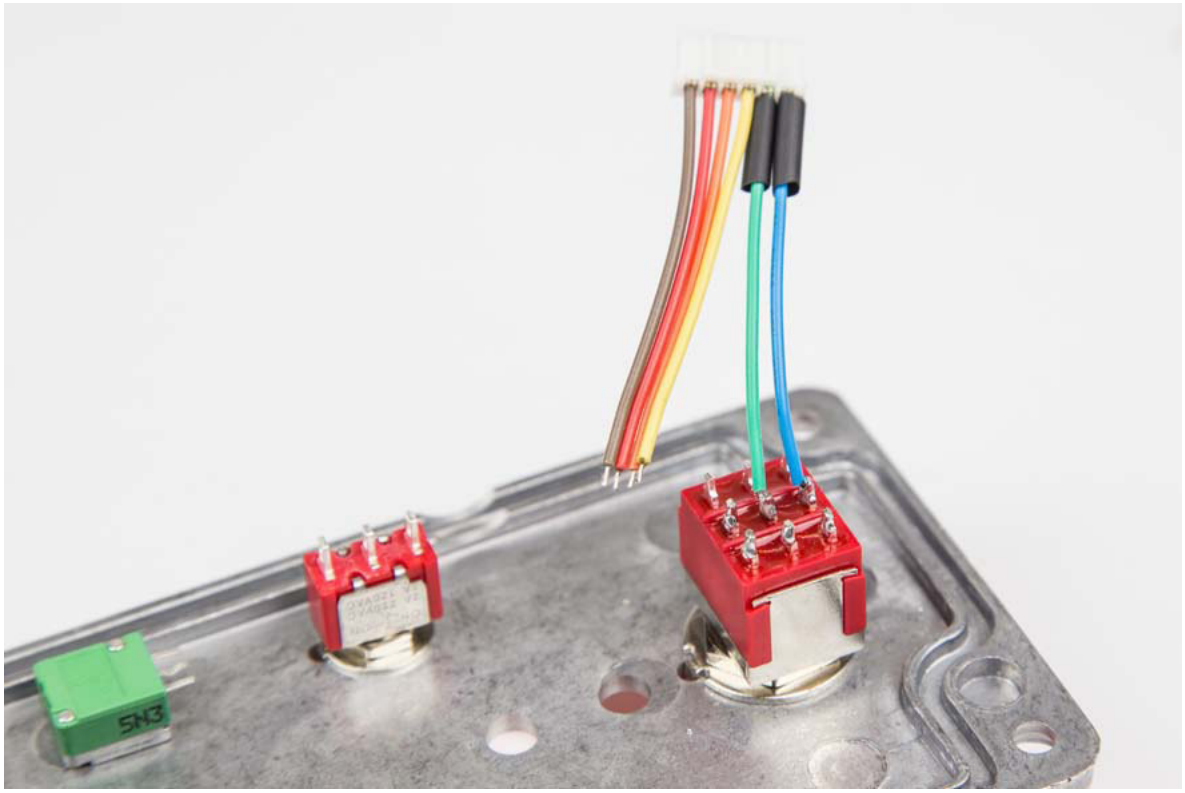
30. Trim the leads of the 6 wire female connector to 4.5 cm.

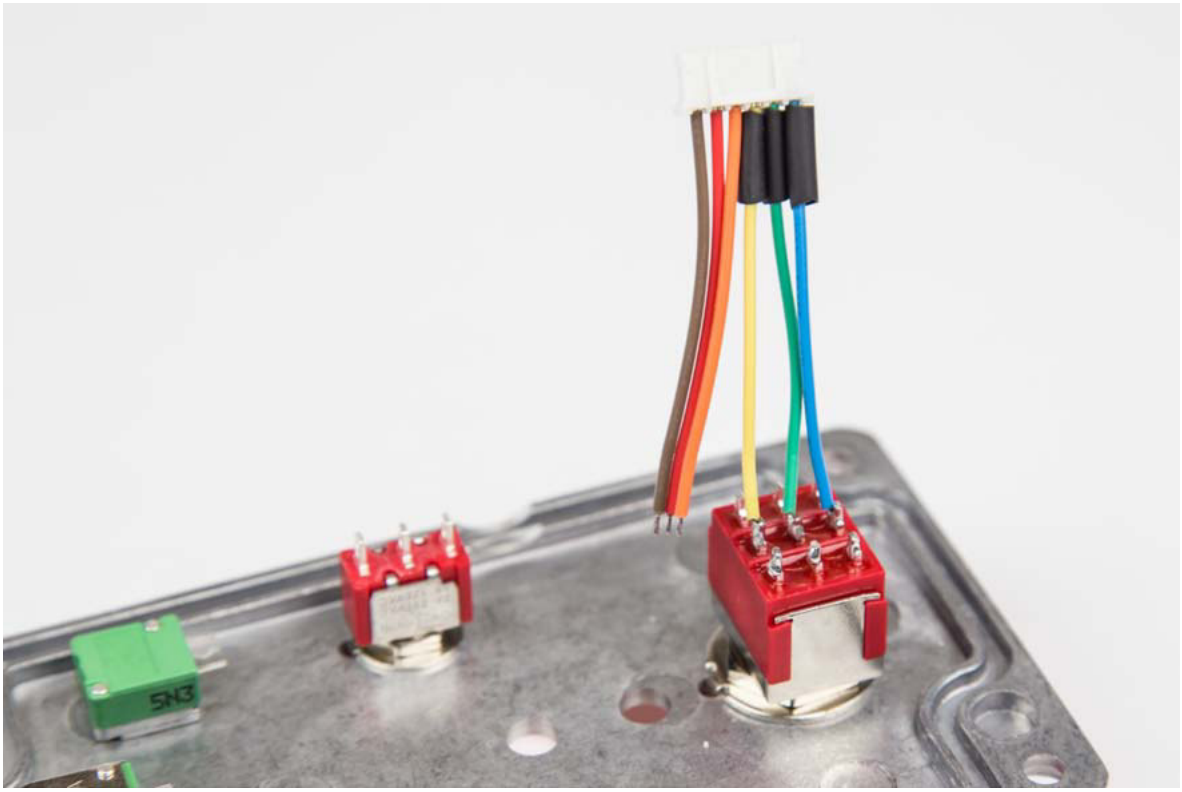
31. Strip and tin the wires.

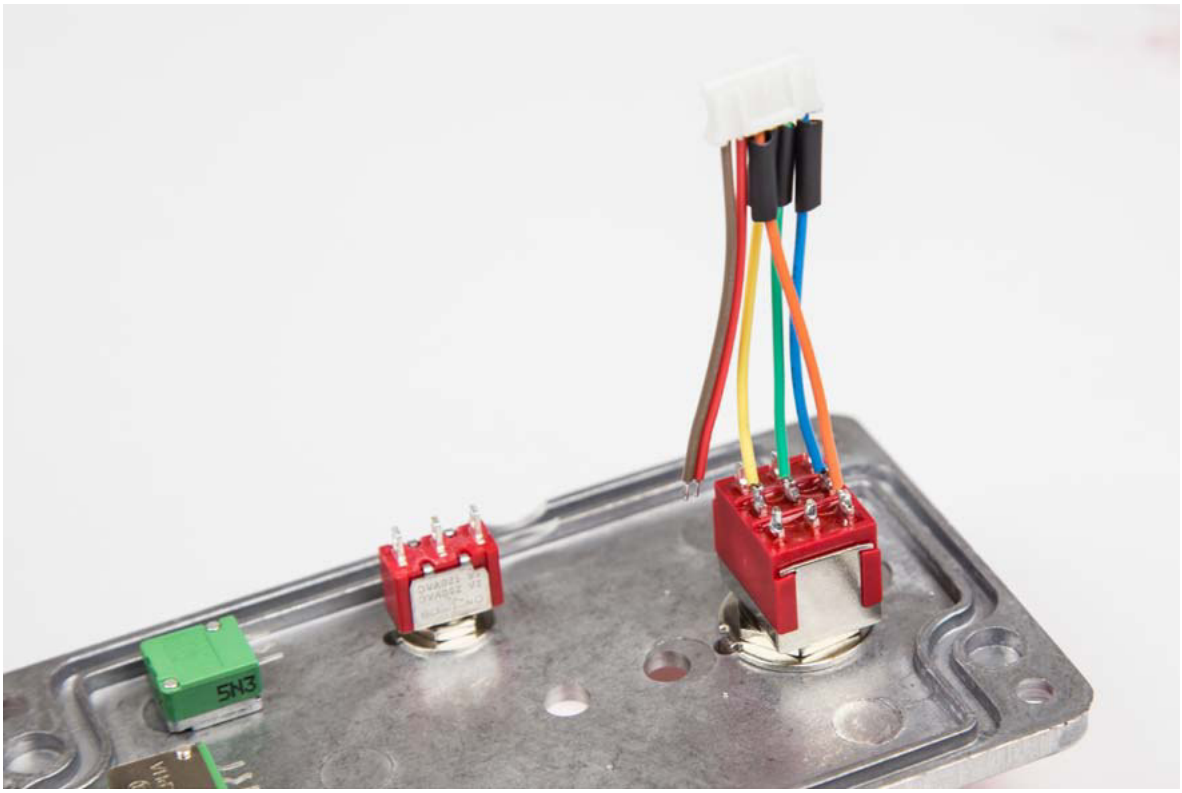
32. Cut 6 x 7 mm pieces of the 2.4 mm shrinktube.

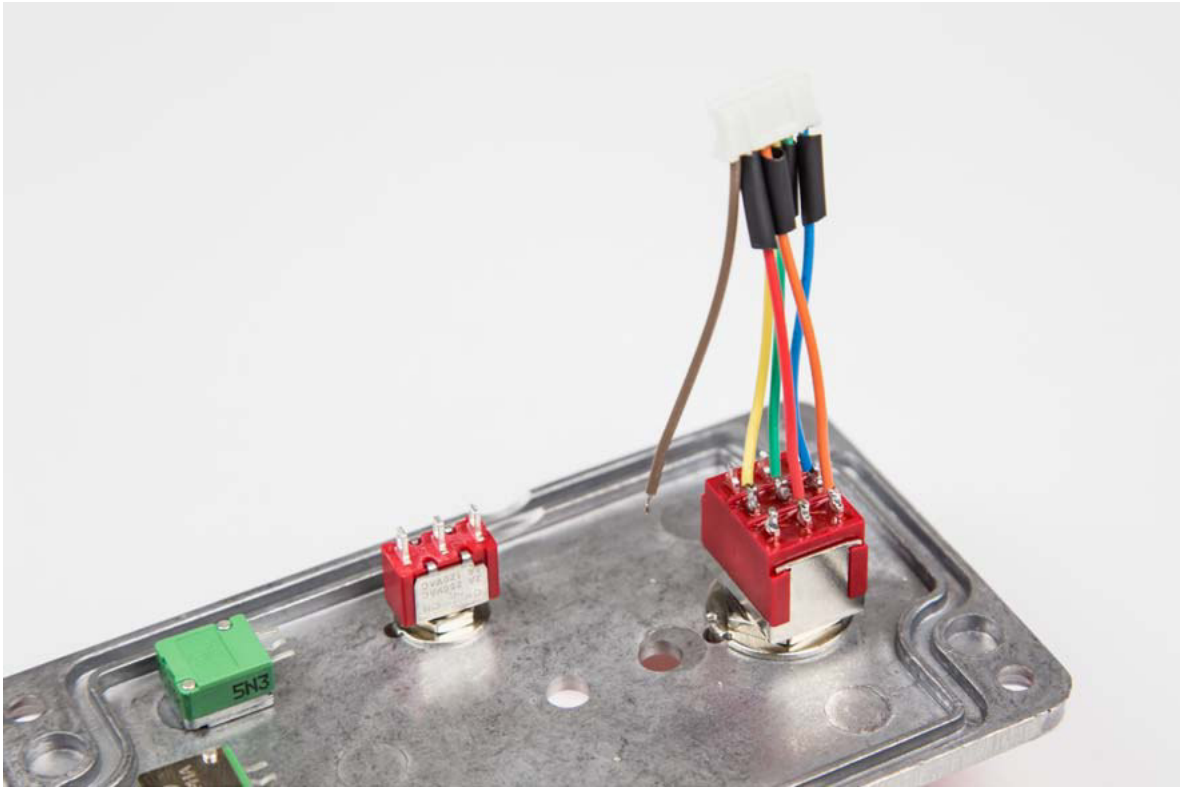
33. Solder the wires to the footswitch as shown below. **Do not forget the shrinktube pieces and note the colors.**

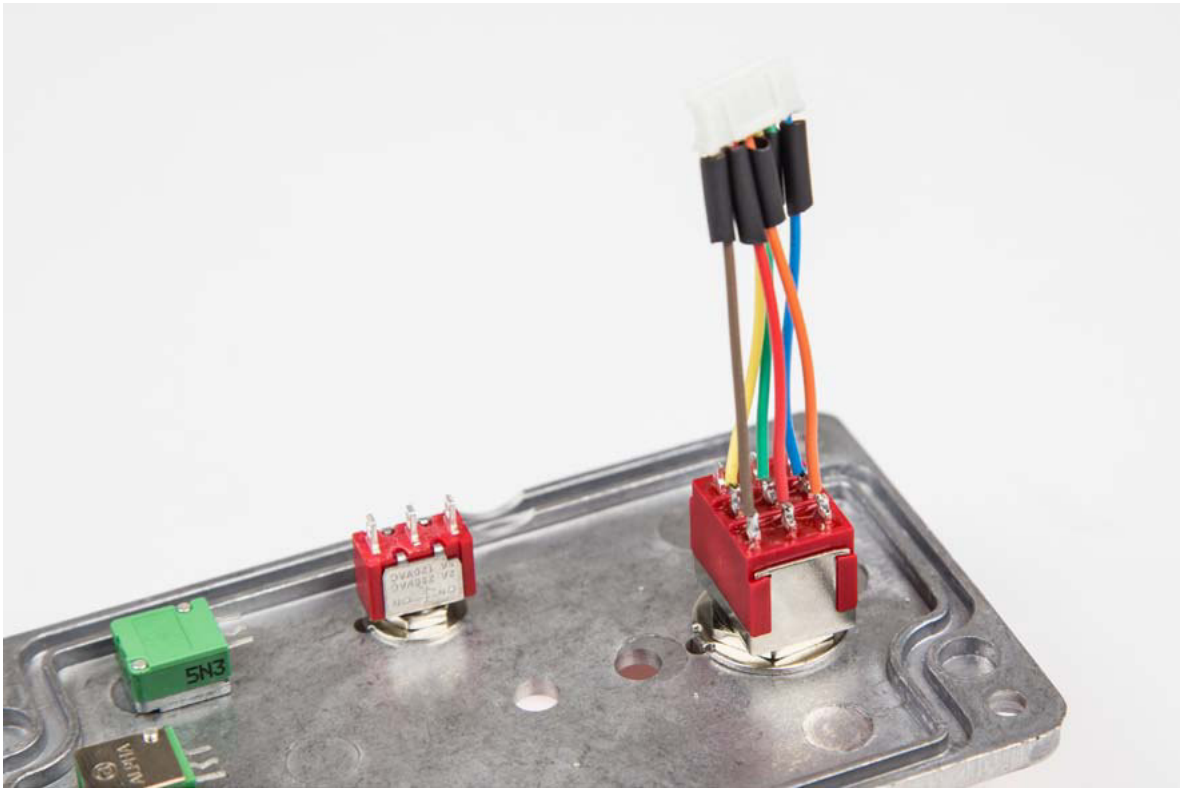


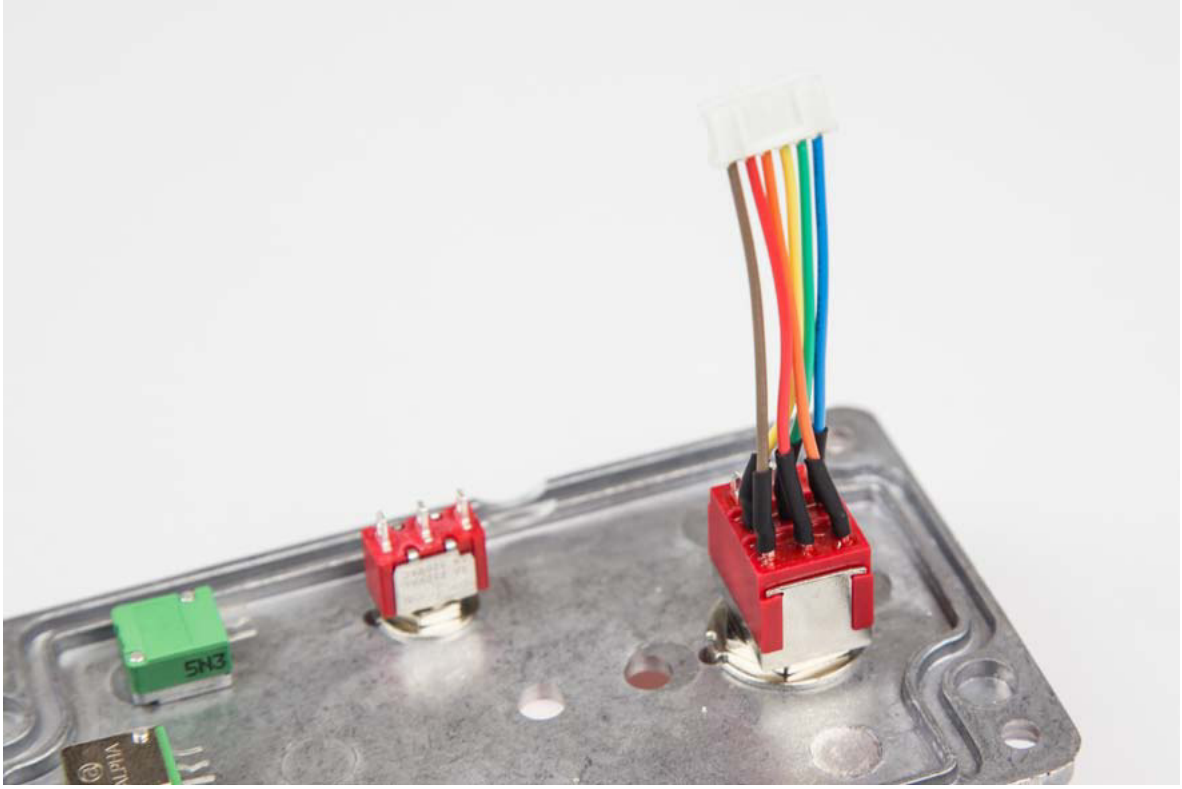



5N3

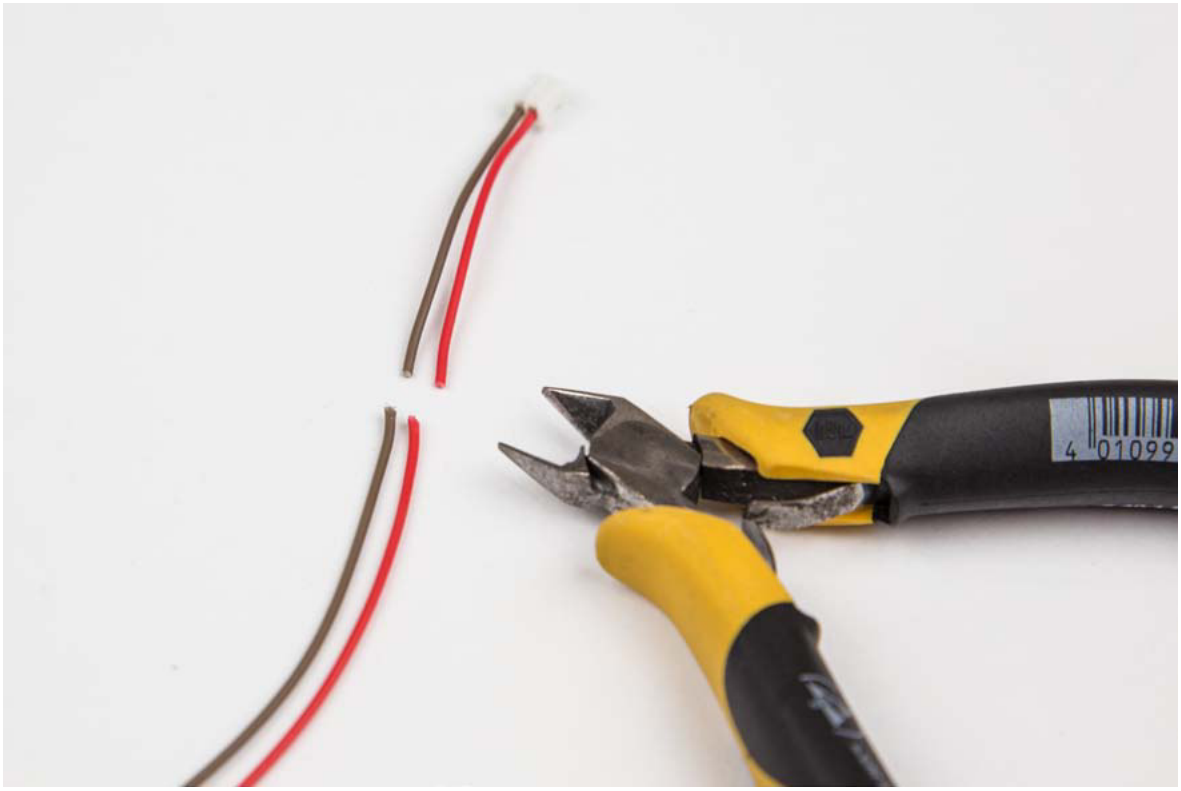

5N3


5N3


5N3



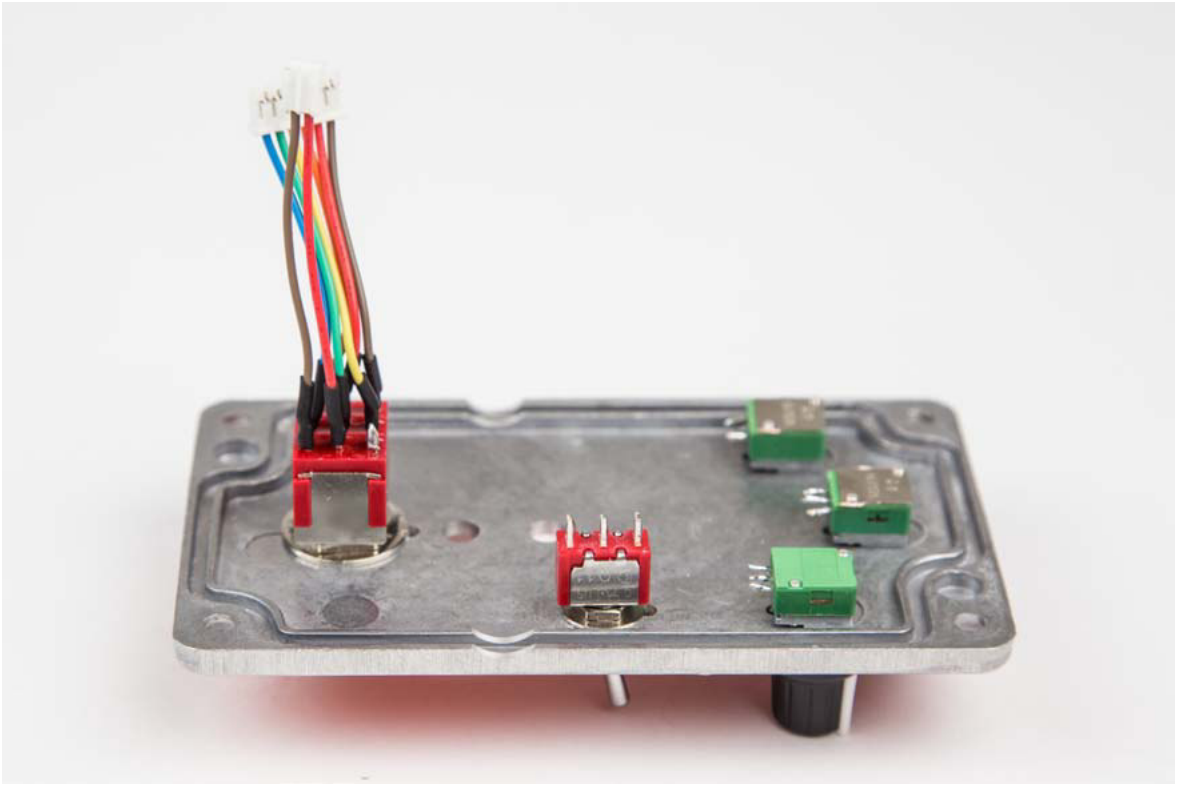
34. Trim the leads of the 2 wire female connector to 4.5 cm.



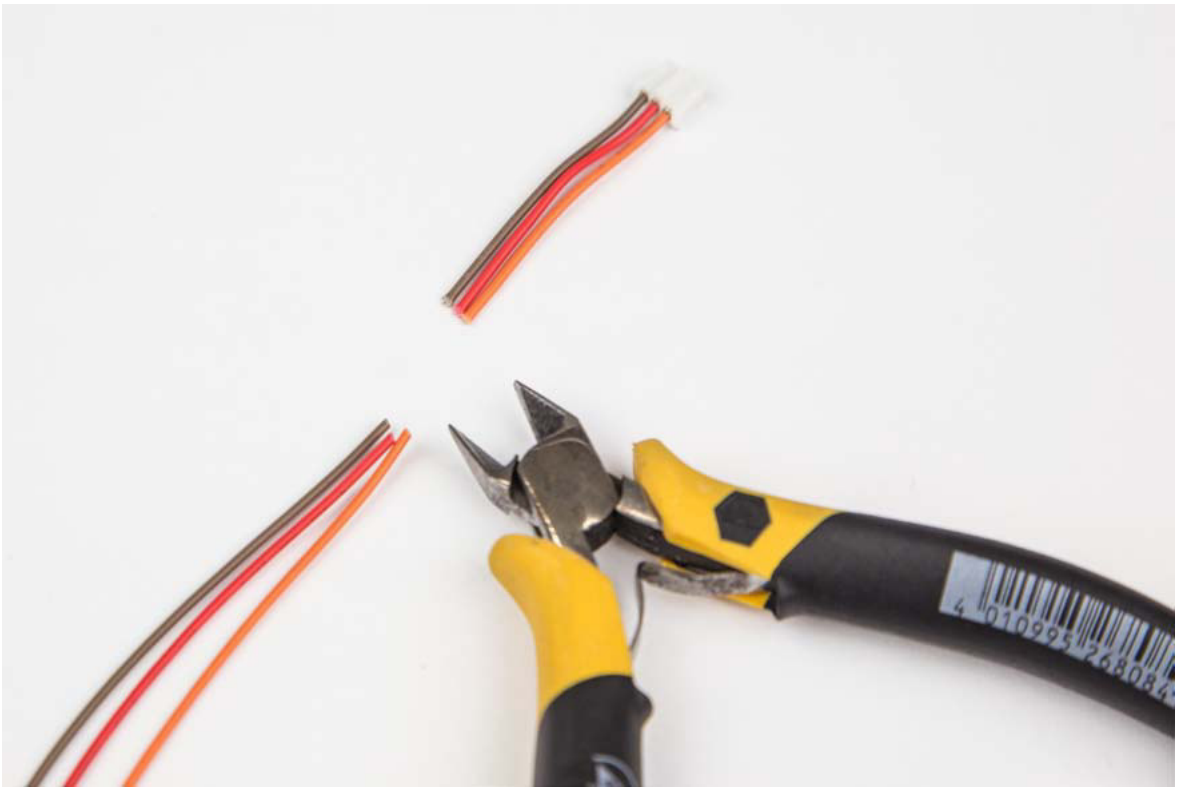
35. Strip and tin the wires.

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.**



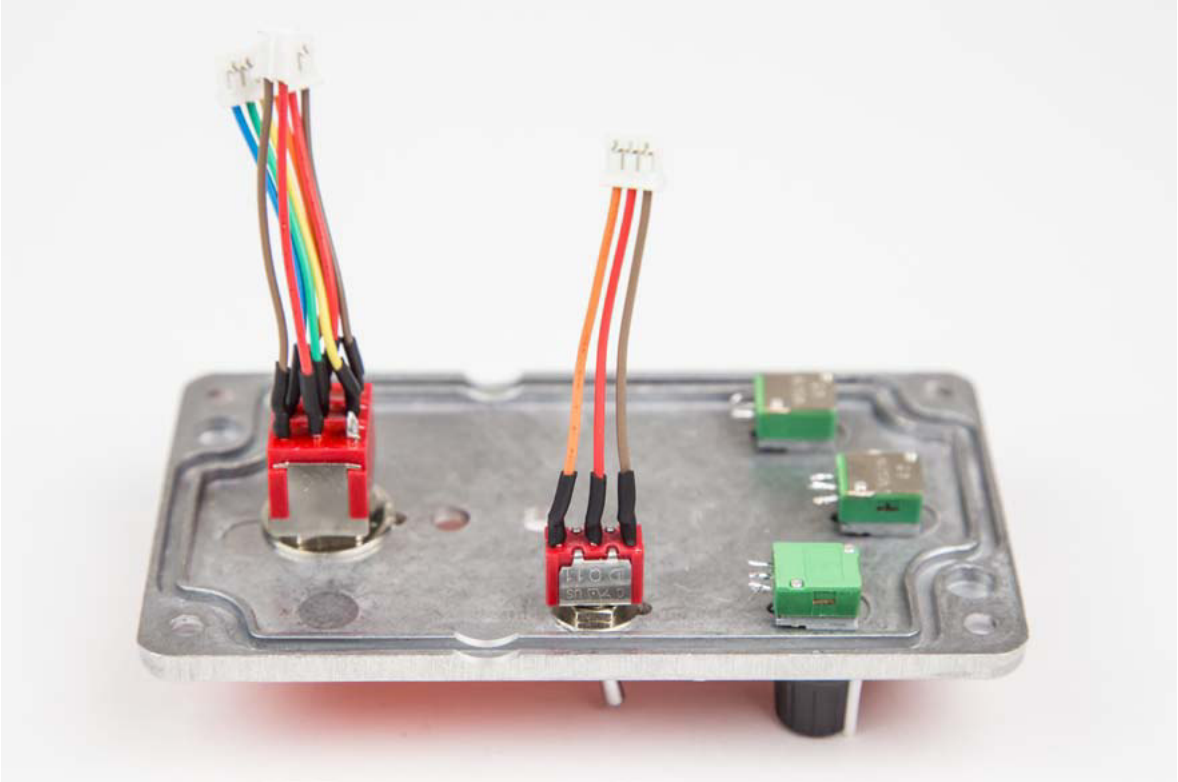
38. Trim the leads of one of the 3 wire female connector to 4.5 cm.



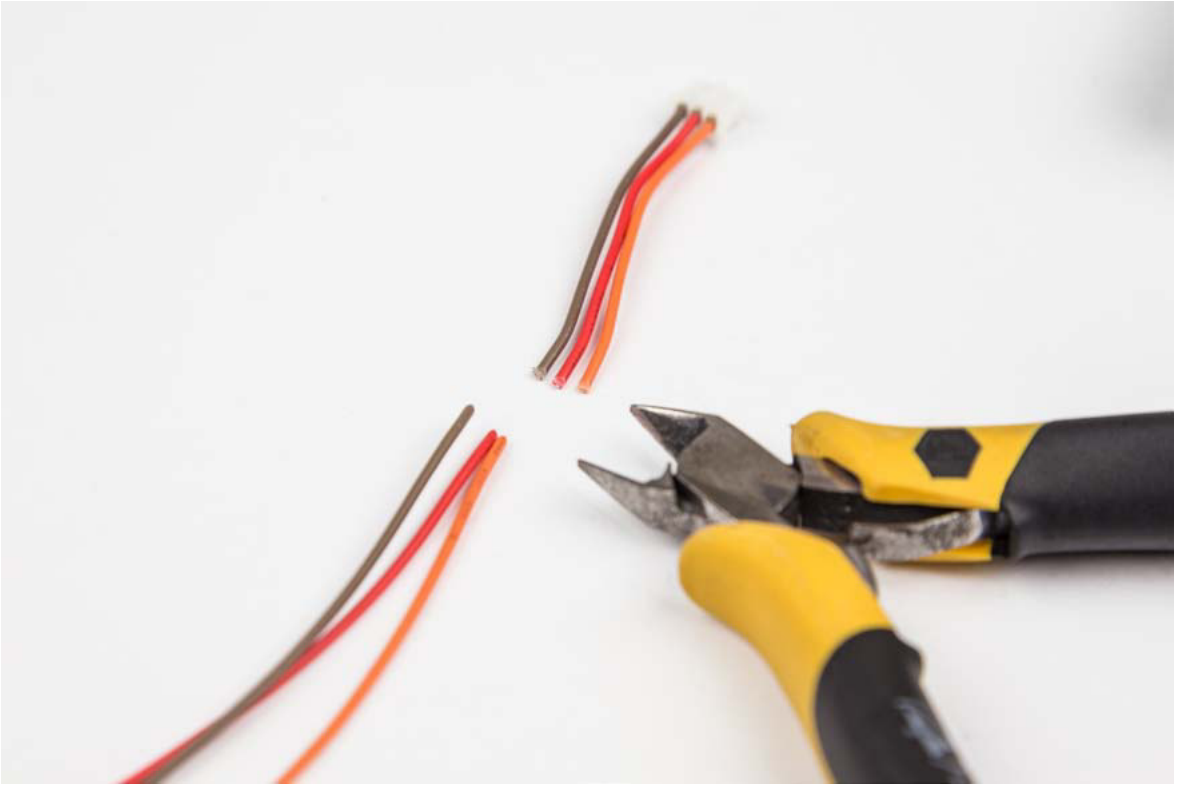
39. Strip and tin the wires.

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.**



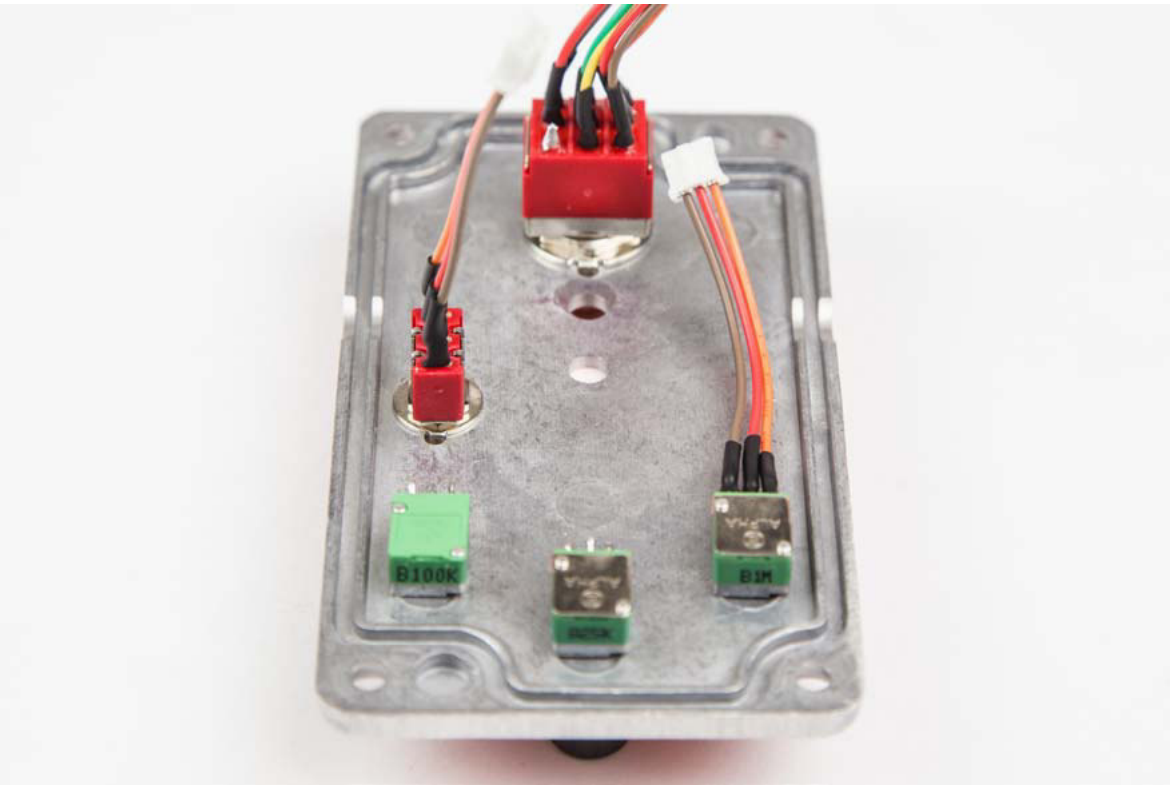
42. Trim the leads of two of the 3 wire female connector to 5 cm.



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.**

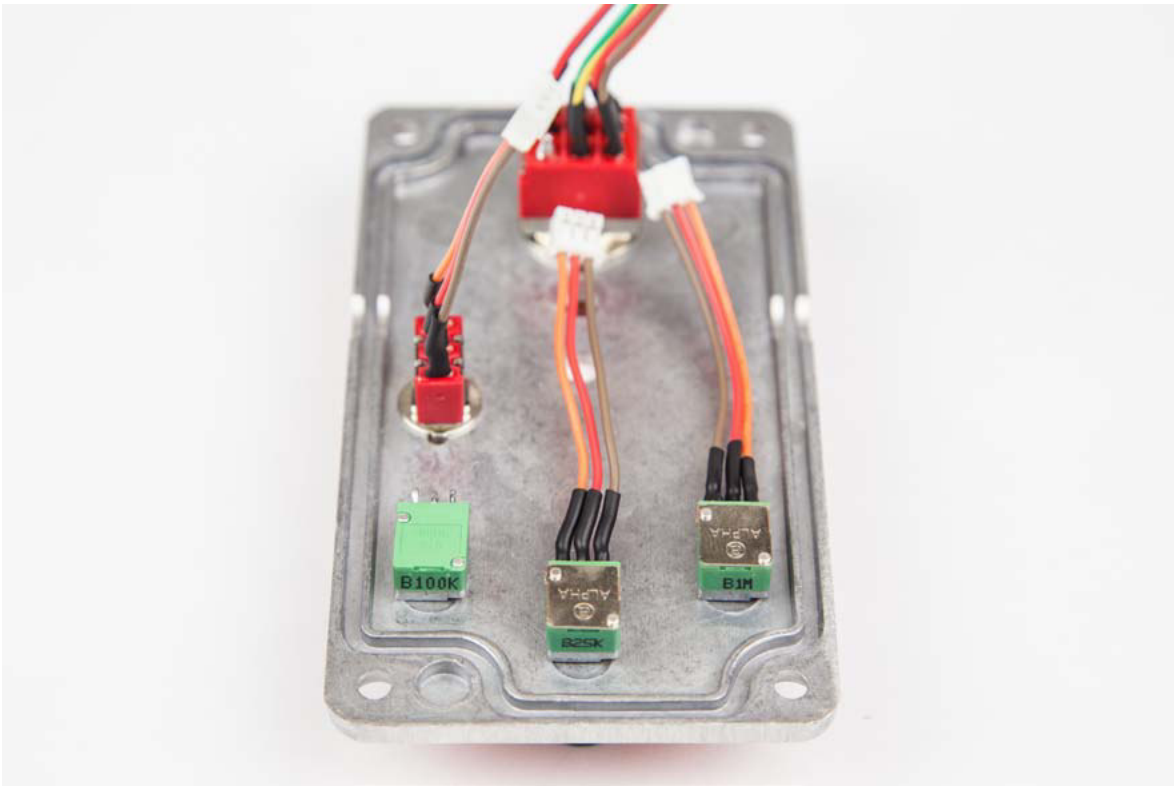


46. Trim the leads of one of the 3 wire female connector to 5 cm.

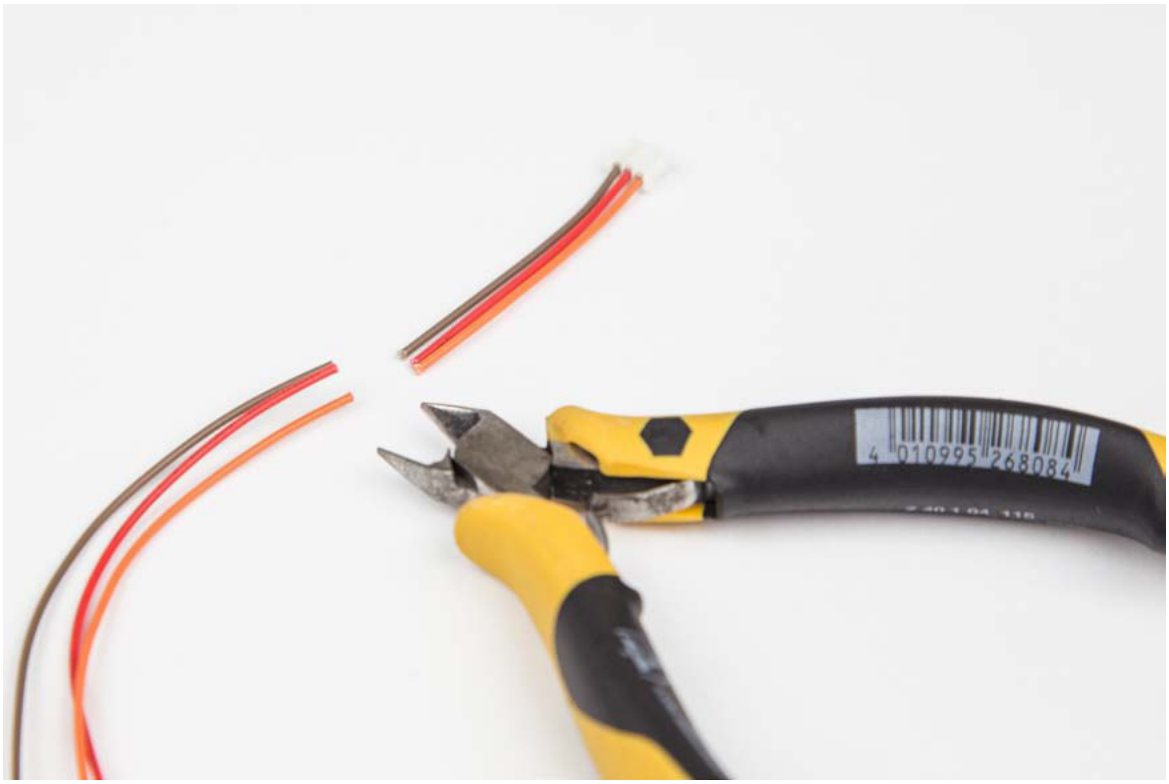
47. Strip and tin the wires of the connector.

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.**



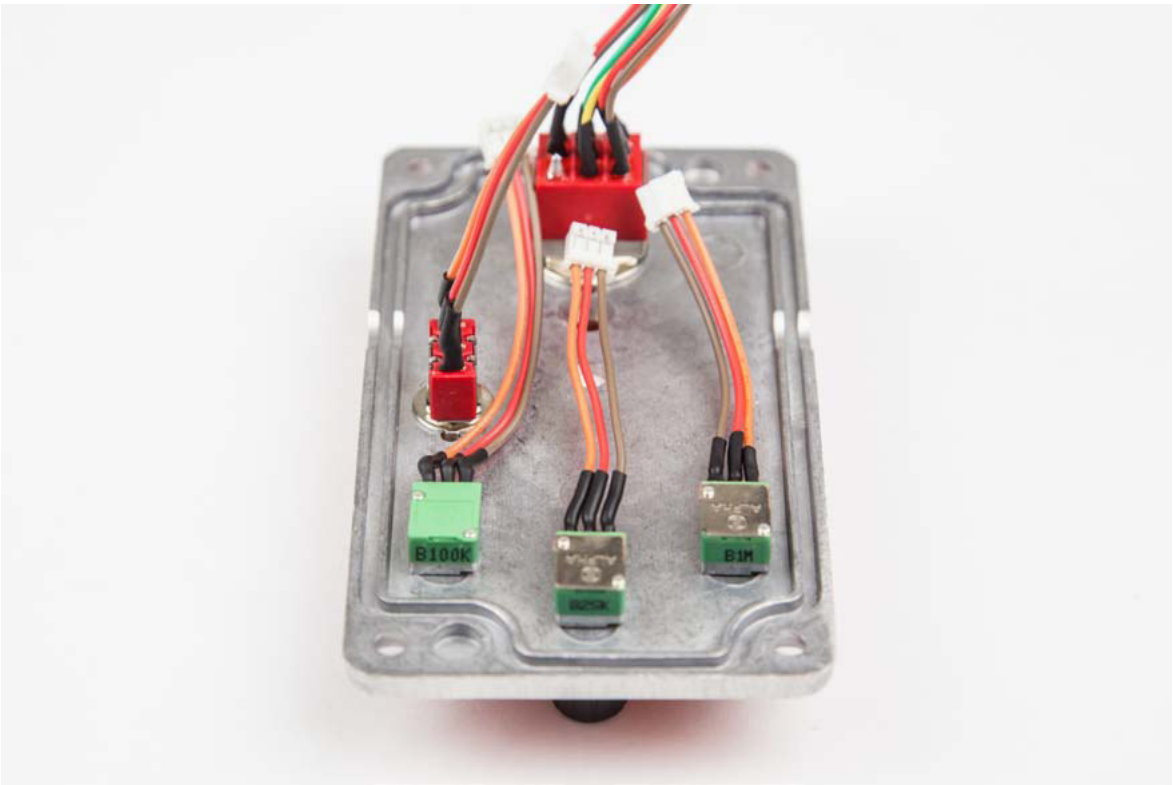
50. Trim the leads of one of the 3 wire female connector to 5 cm.



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.