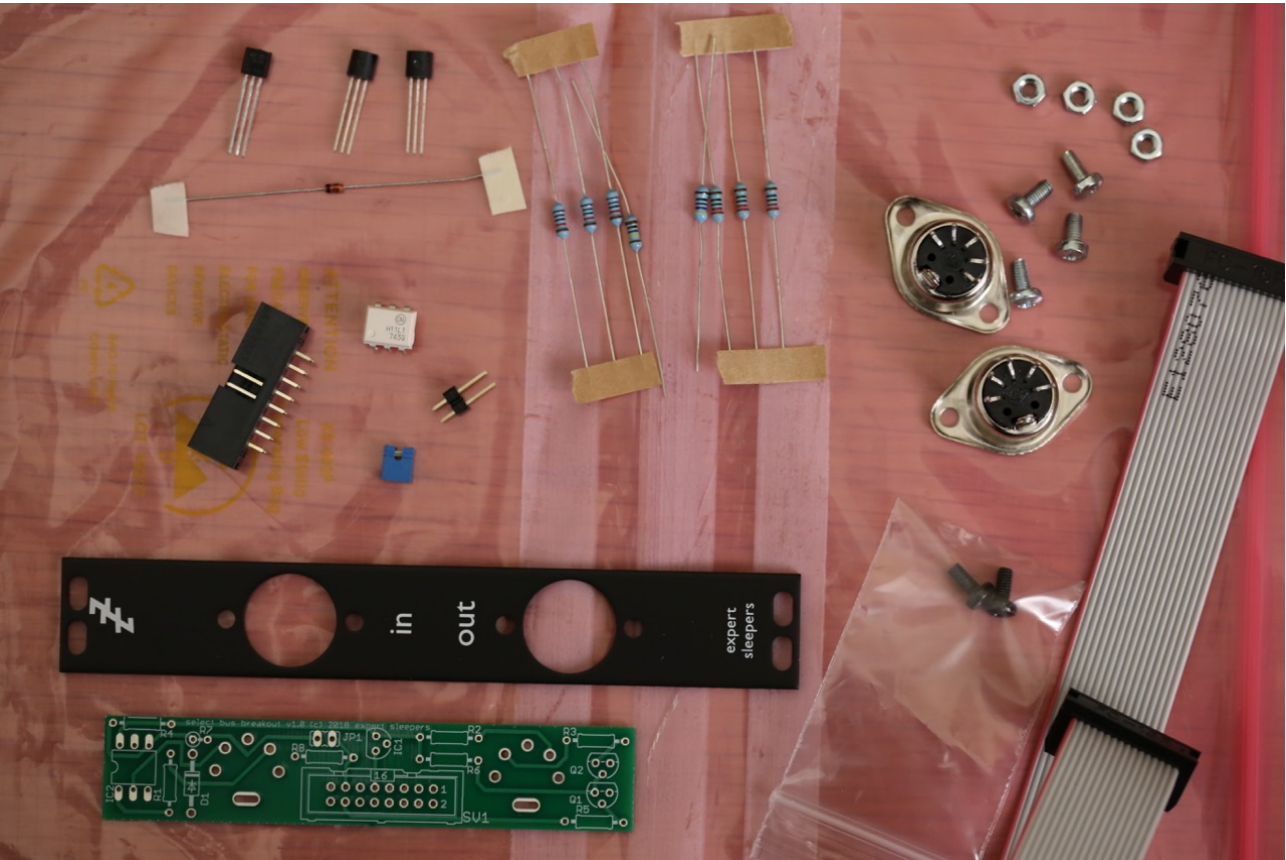


Select Bus breakout

Assembly instructions



1. Check your parts

Part Number	Quantity	Part
IC1	1	L78L05ACZ (5V regulator)
IC2	1	H11L1M (optocoupler)
Q1-2	2	2N7000 (MOSFET transistor)
D1	1	BZX79-C3V3 (3.3V zener diode)
R1-3	3	220R resistor
R4	1	470R resistor
R5-7	3	10K resistor
R8	1	1M resistor
JP1	1	2 pin header
SV1	1	16 pin boxed header
JK1-2	2	5-pin DIN socket
	1	PCB
	1	Front panel
	1	Power cable (16 way IDC)
	1	Jumper link
	4	M3 6mm machine screw
	4	M3 nut

2. Attach the DIN sockets to front panel

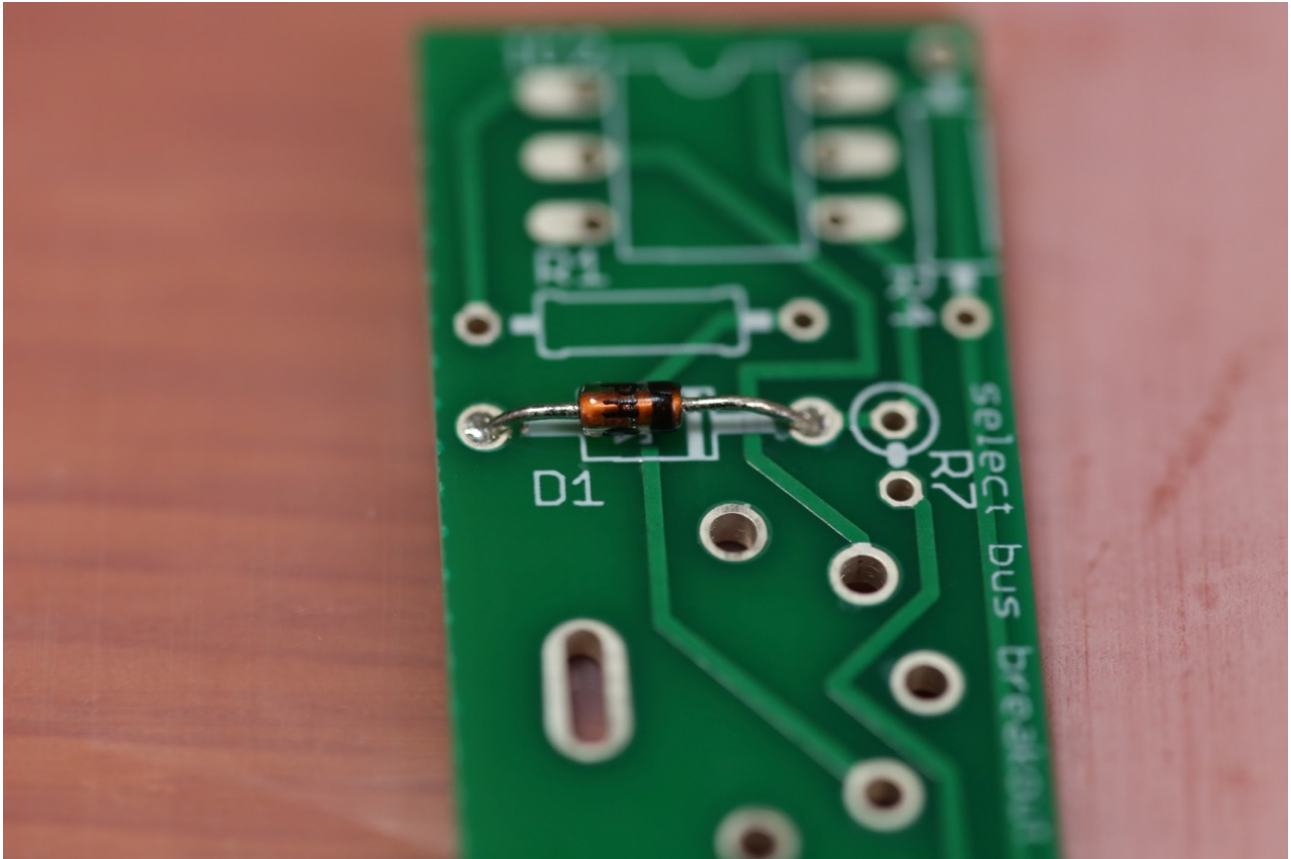
Use the M3 nuts and machine screws to attach the sockets to the panel.

Do this now! You won't be able to do it after soldering the sockets to the PCB.
Make sure the sockets are rotated correctly, or they won't match up with the PCB.



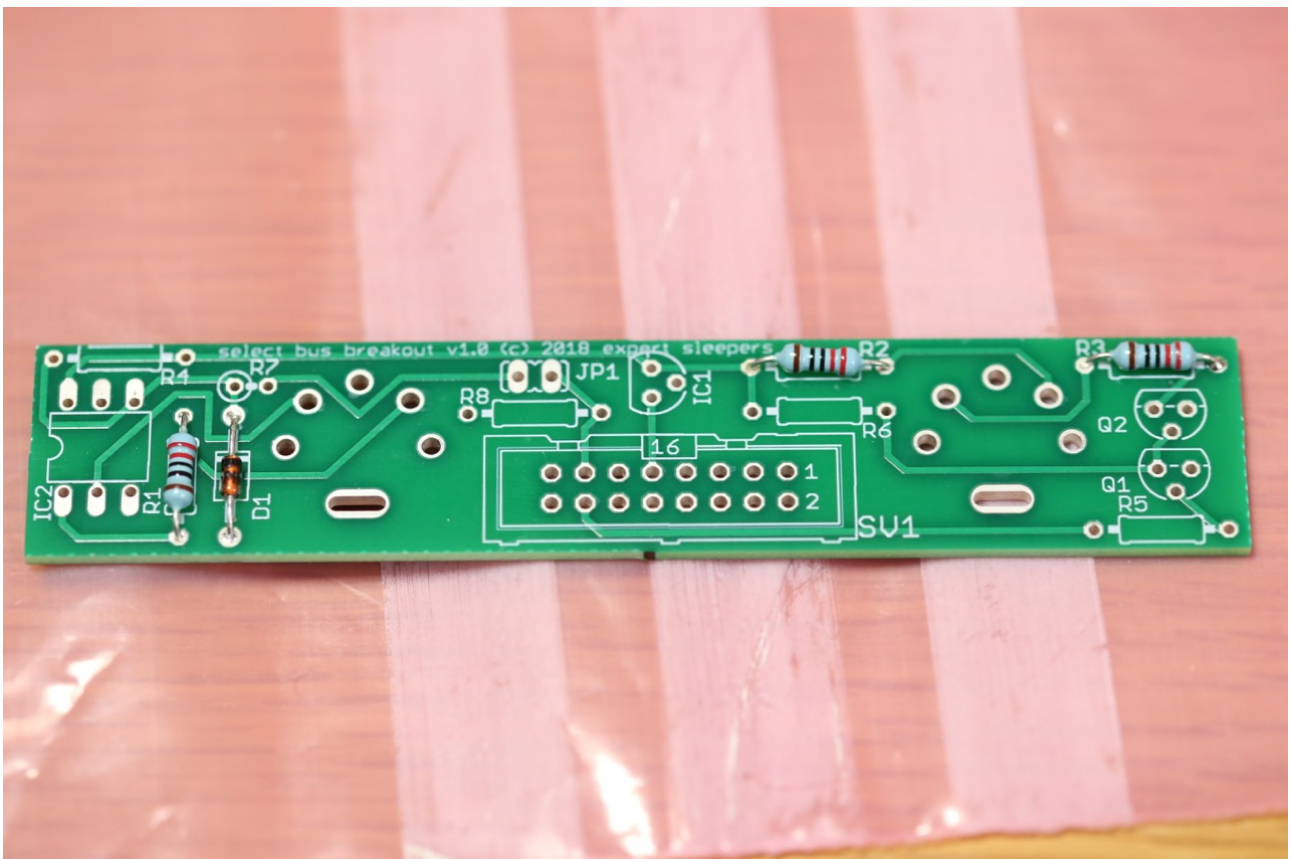
3. Insert and solder D1

Make sure the black band on the diode matches the stripe on the PCB.



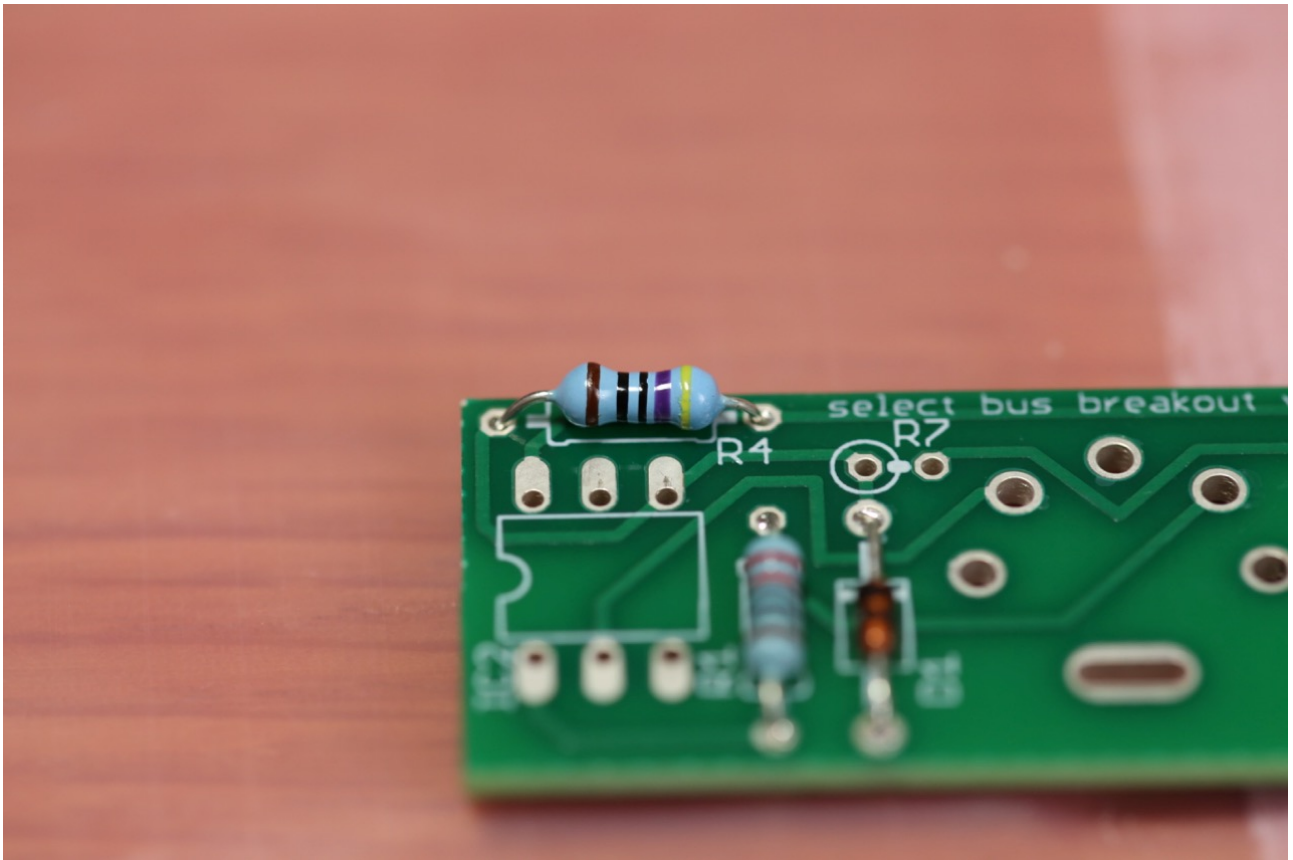
4. Insert and solder R1-3

Insert the three 220R resistors (colour code red-red-black-black).



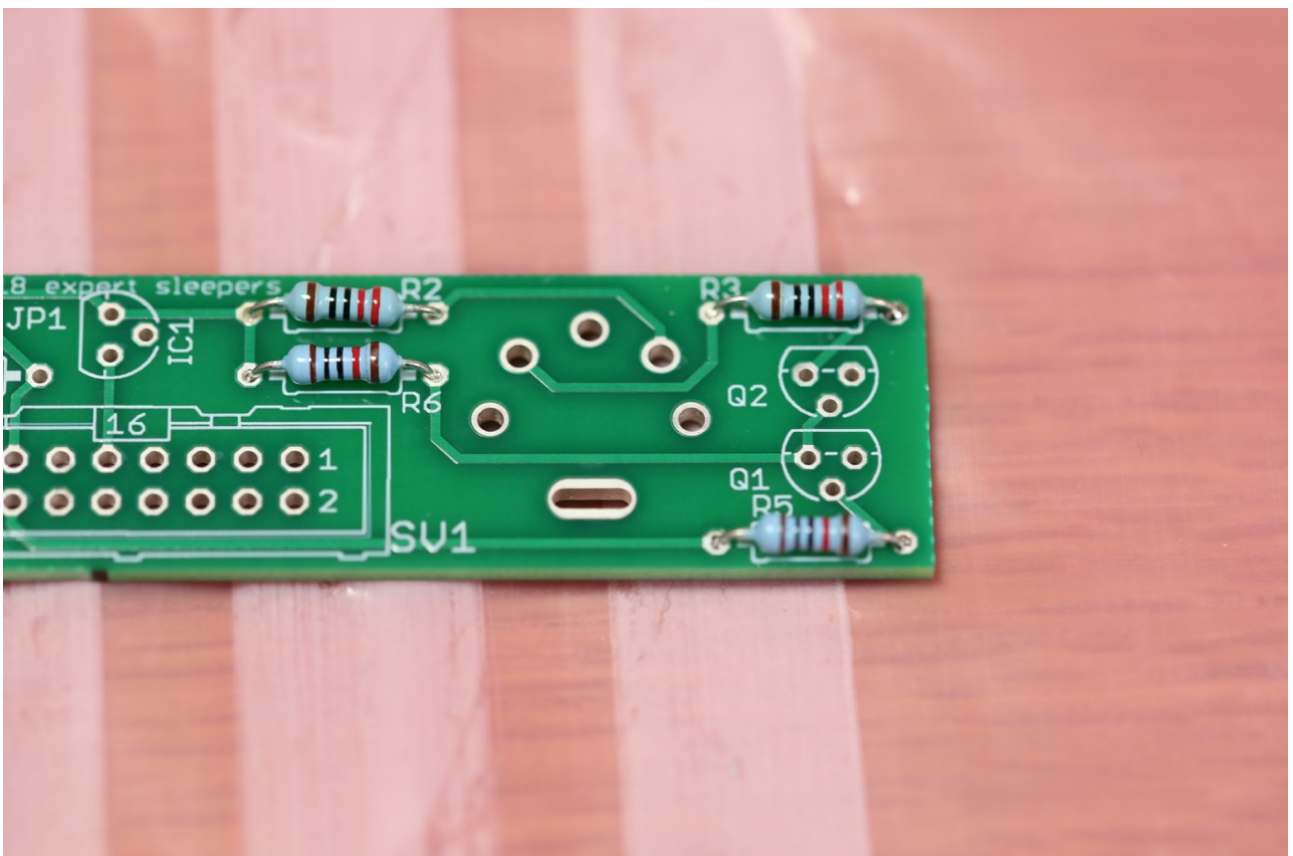
5. Insert and solder R4

Insert the 470R resistor (colour code yellow-purple-black-black).



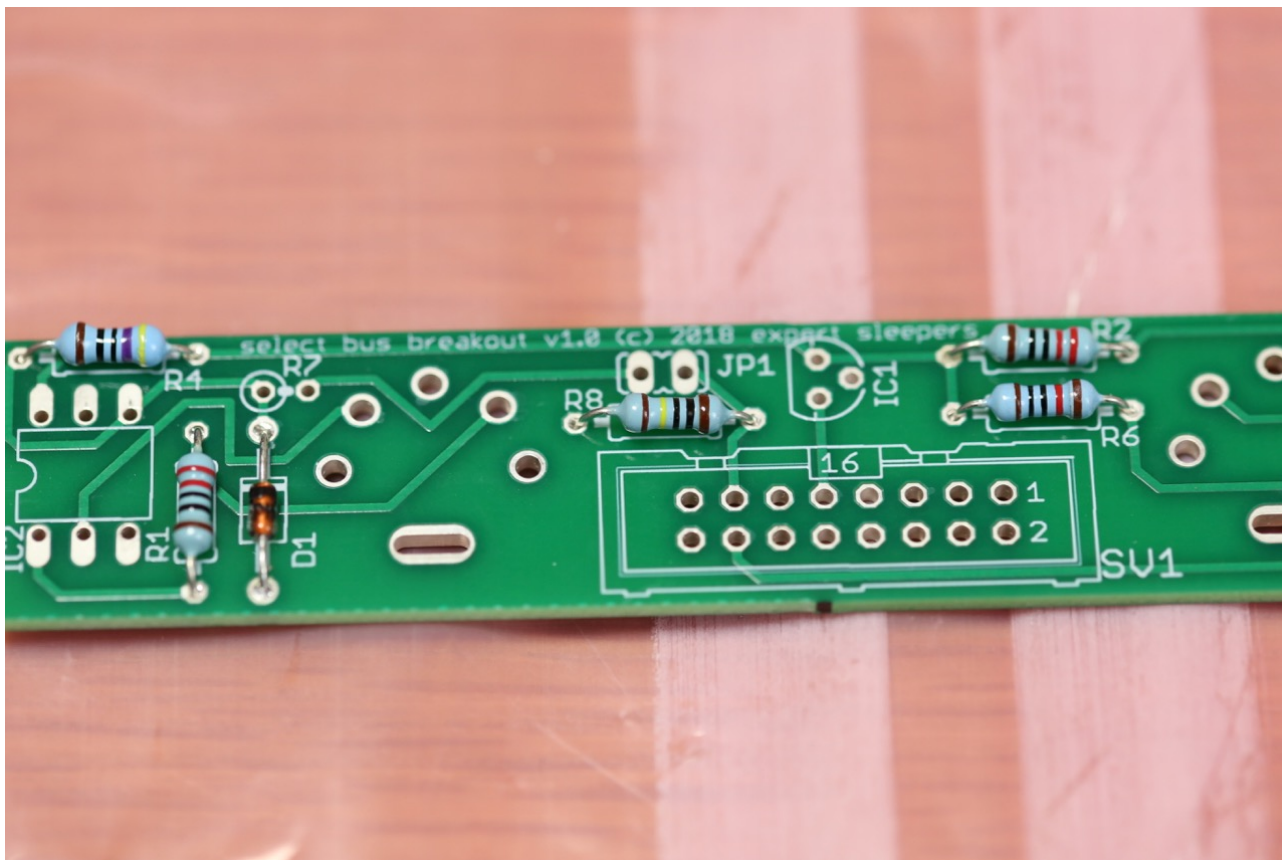
6. Insert and solder R5-6

Insert two of the 10K resistors (colour code brown-black-black-red).



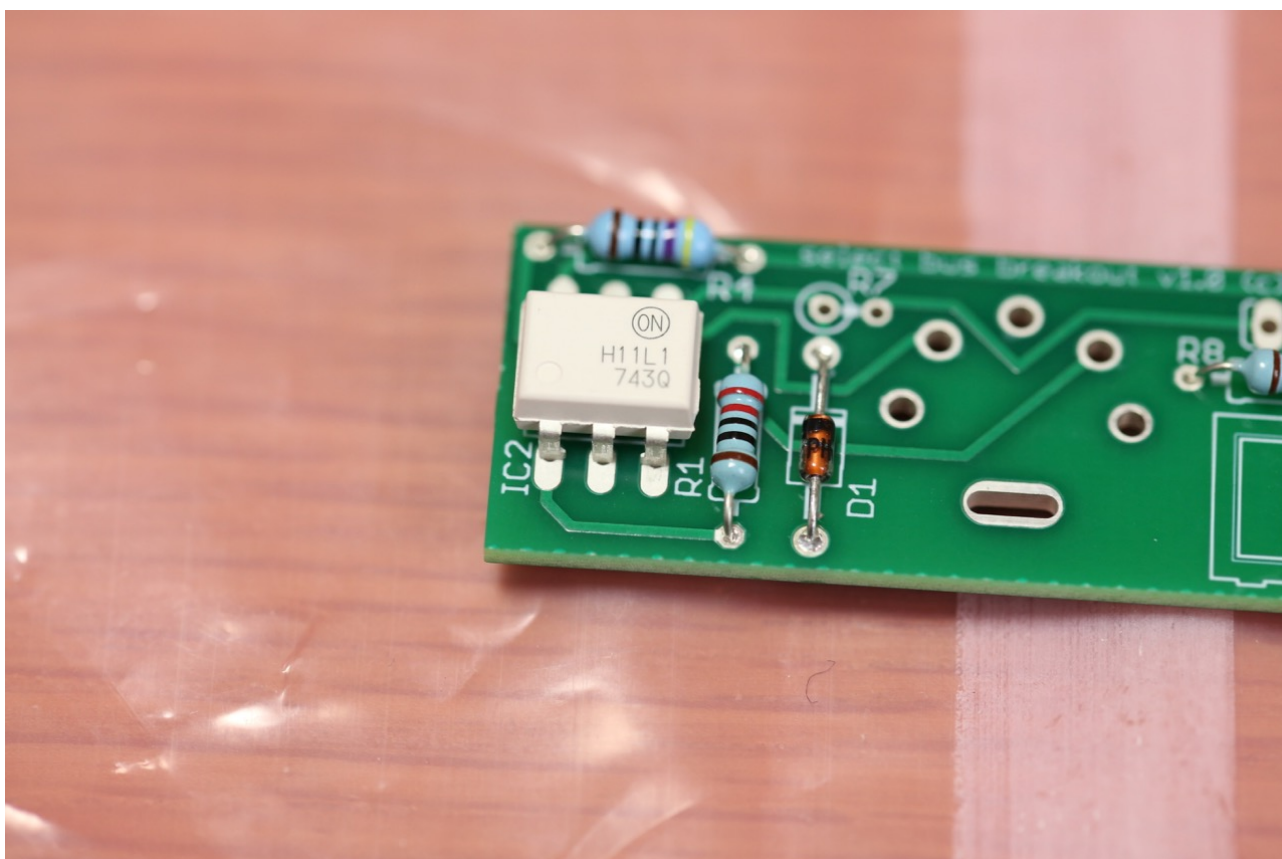
7. Insert and solder R8

Insert the 1M resistor (colour code brown-black-black-yellow).



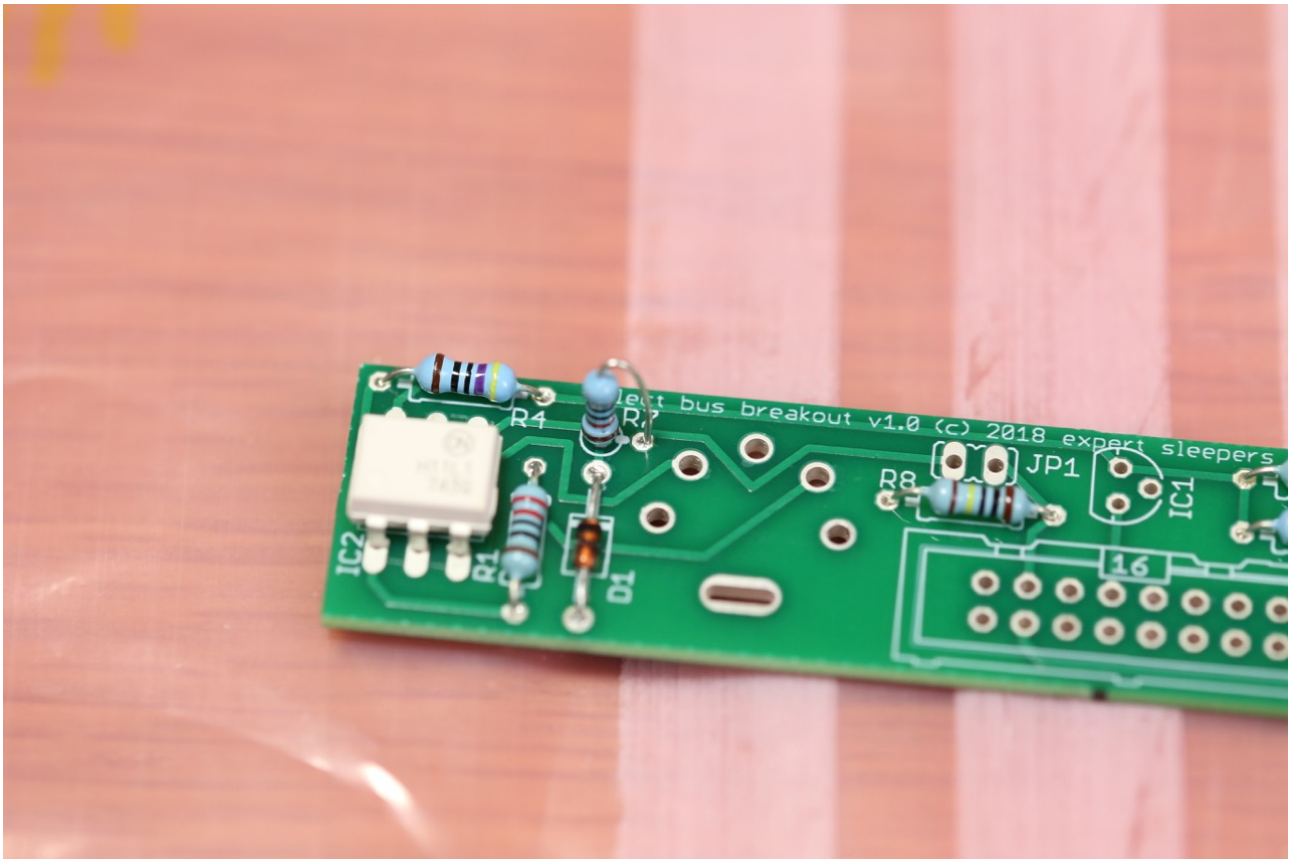
8. Insert and solder IC2

Insert the optocoupler.



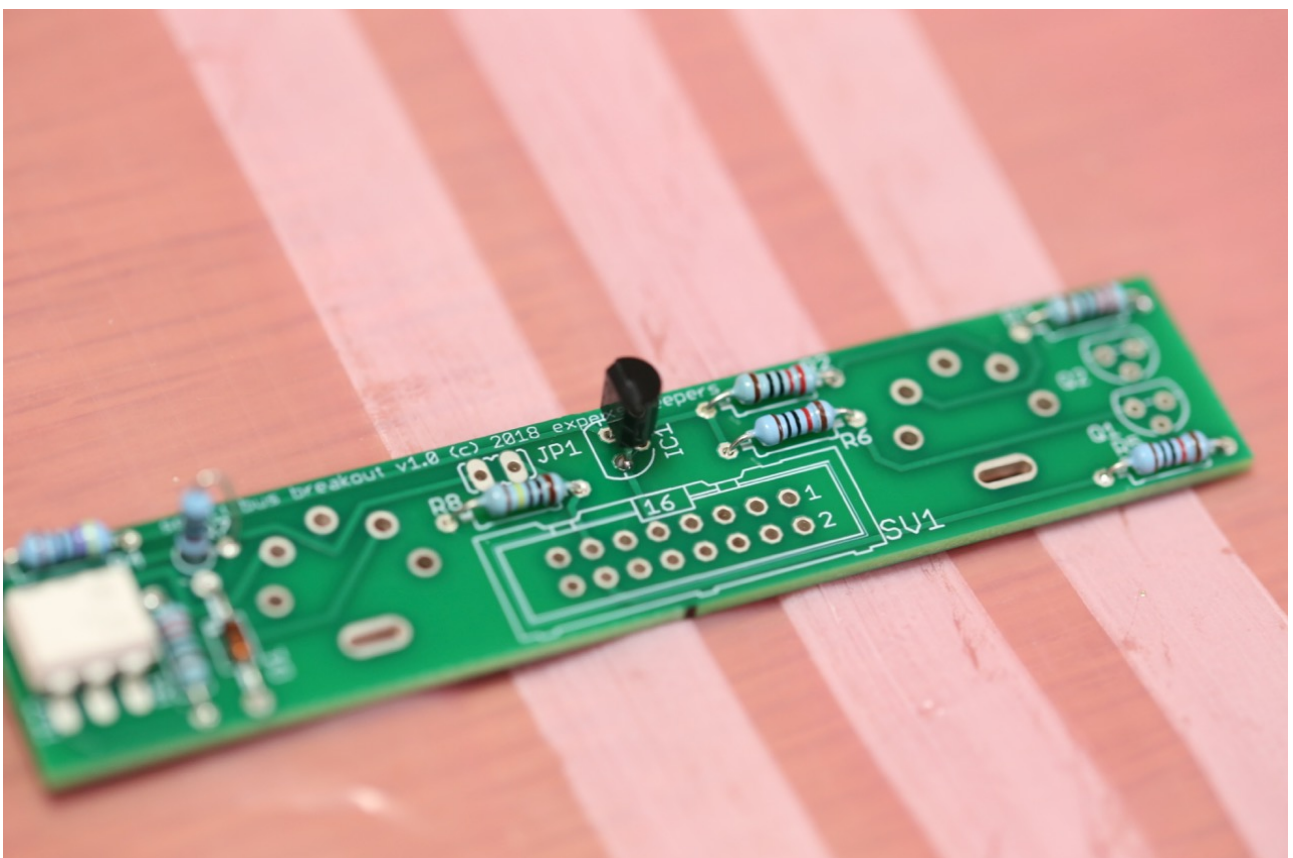
9. Insert and solder R7

Insert the remaining 10K resistor (colour code brown-black-black-red).



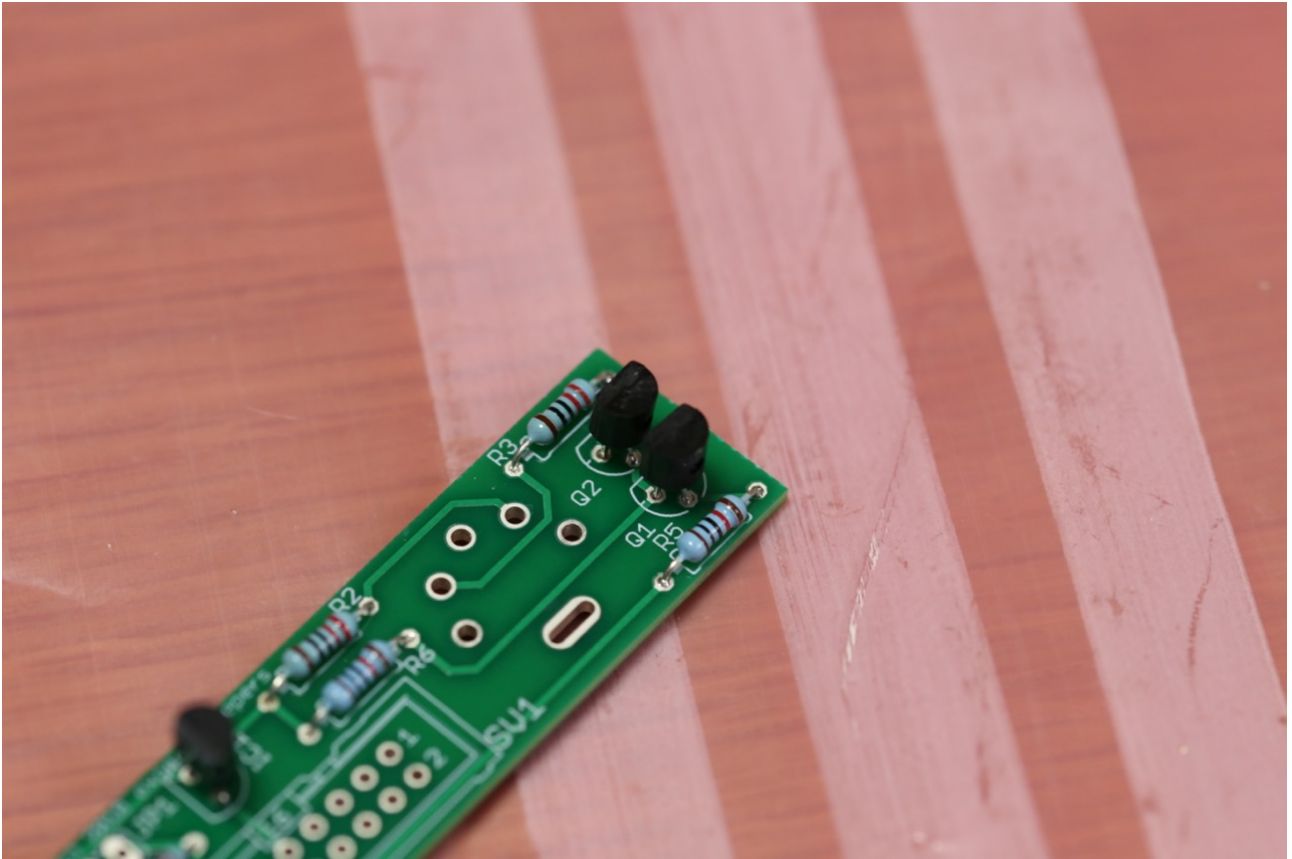
10. Insert and solder IC1

Insert the voltage regulator. Note the flat surface of the case aligns with the shape on the PCB.



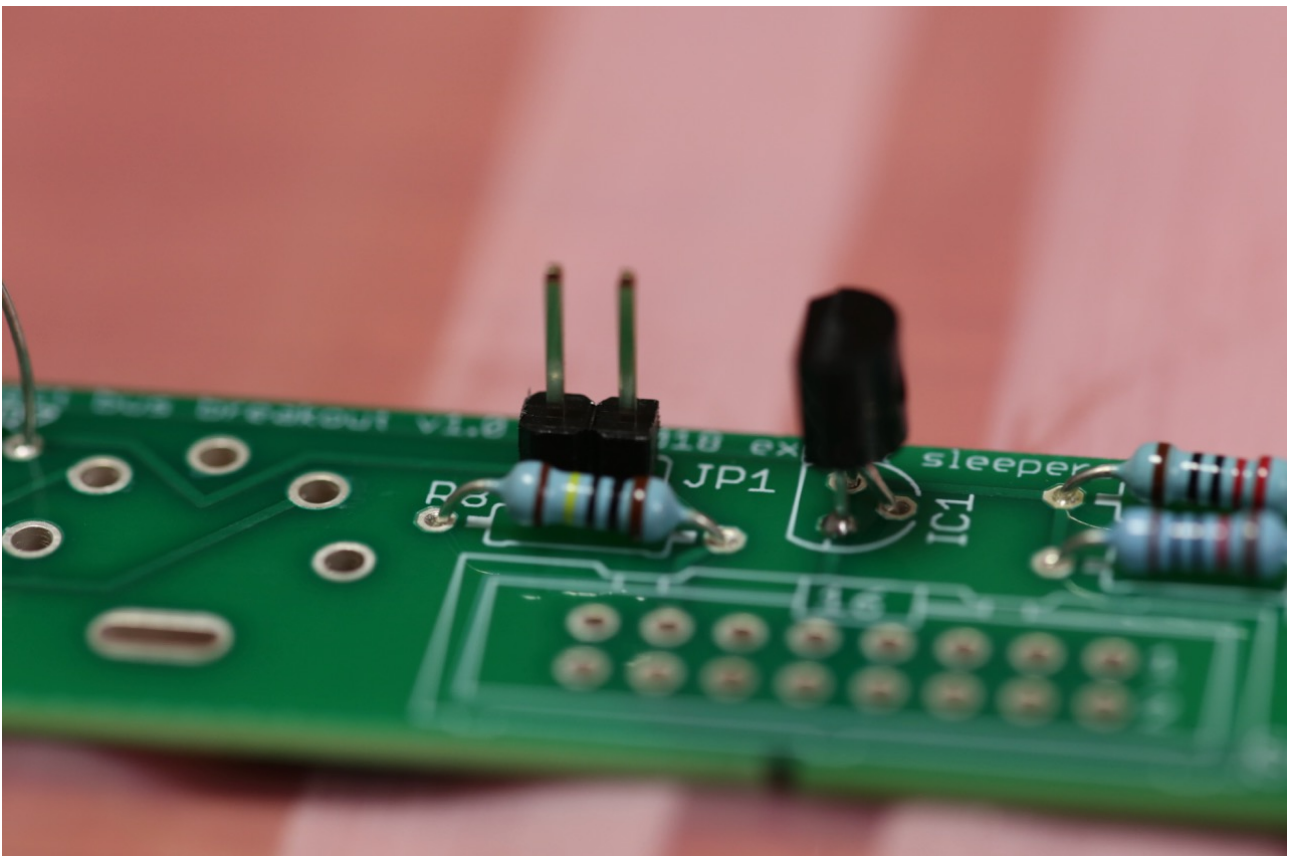
11. Insert and solder Q1-2

Insert the transistors. Note the flat surfaces of the cases align with the shapes on the PCB.



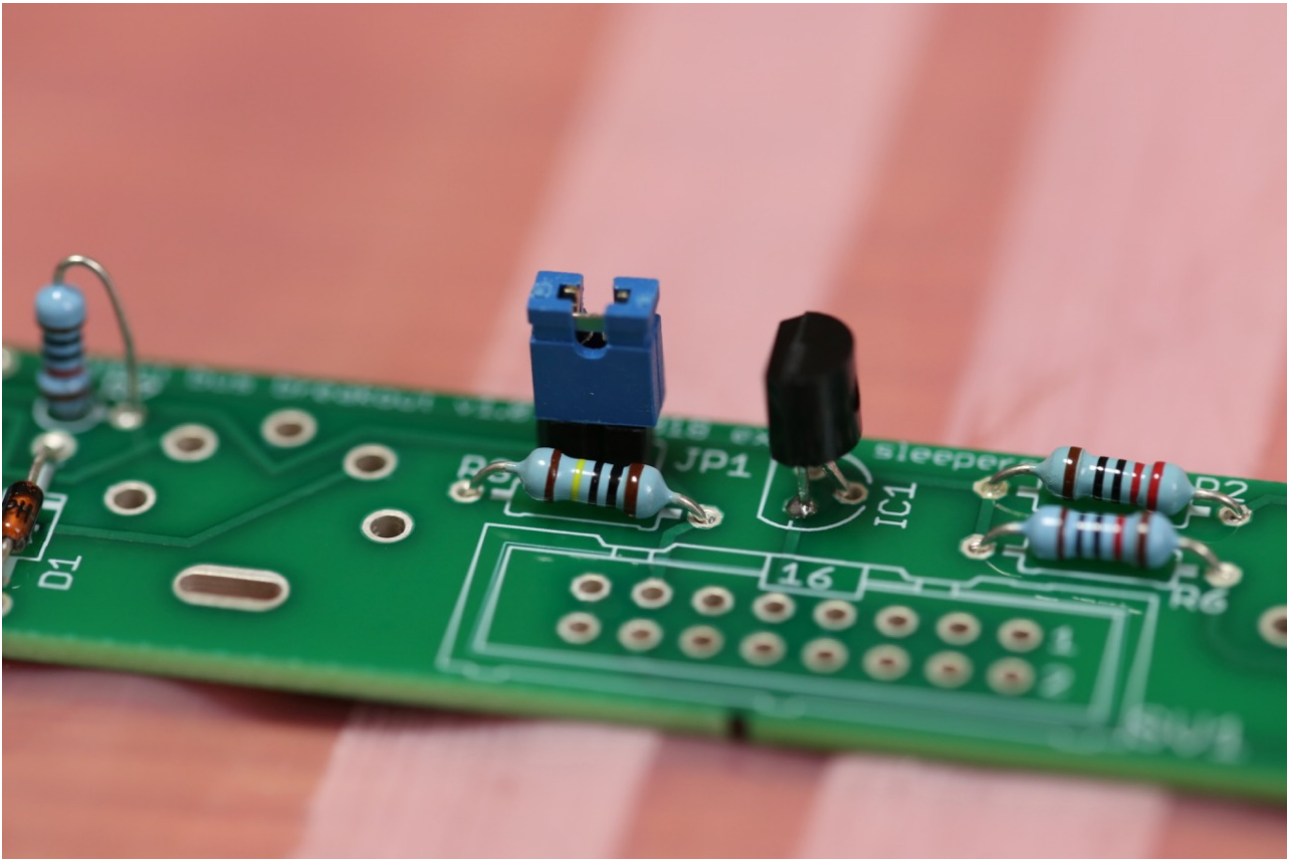
12. Insert and solder JP1.

Insert the 2 pin header.



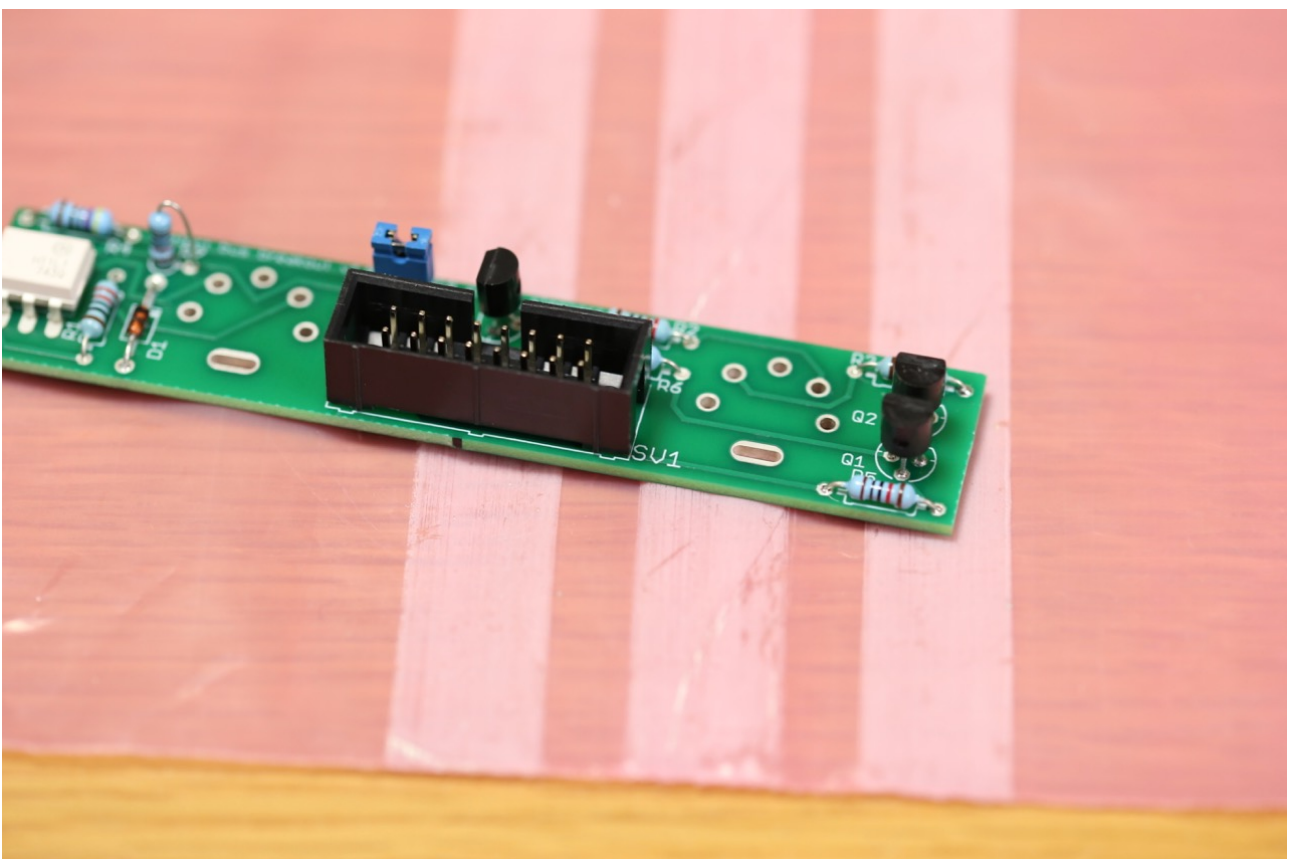
13. Fit the jumper link

Attach the jumper to JP1, if the module is to drive the Select Bus.



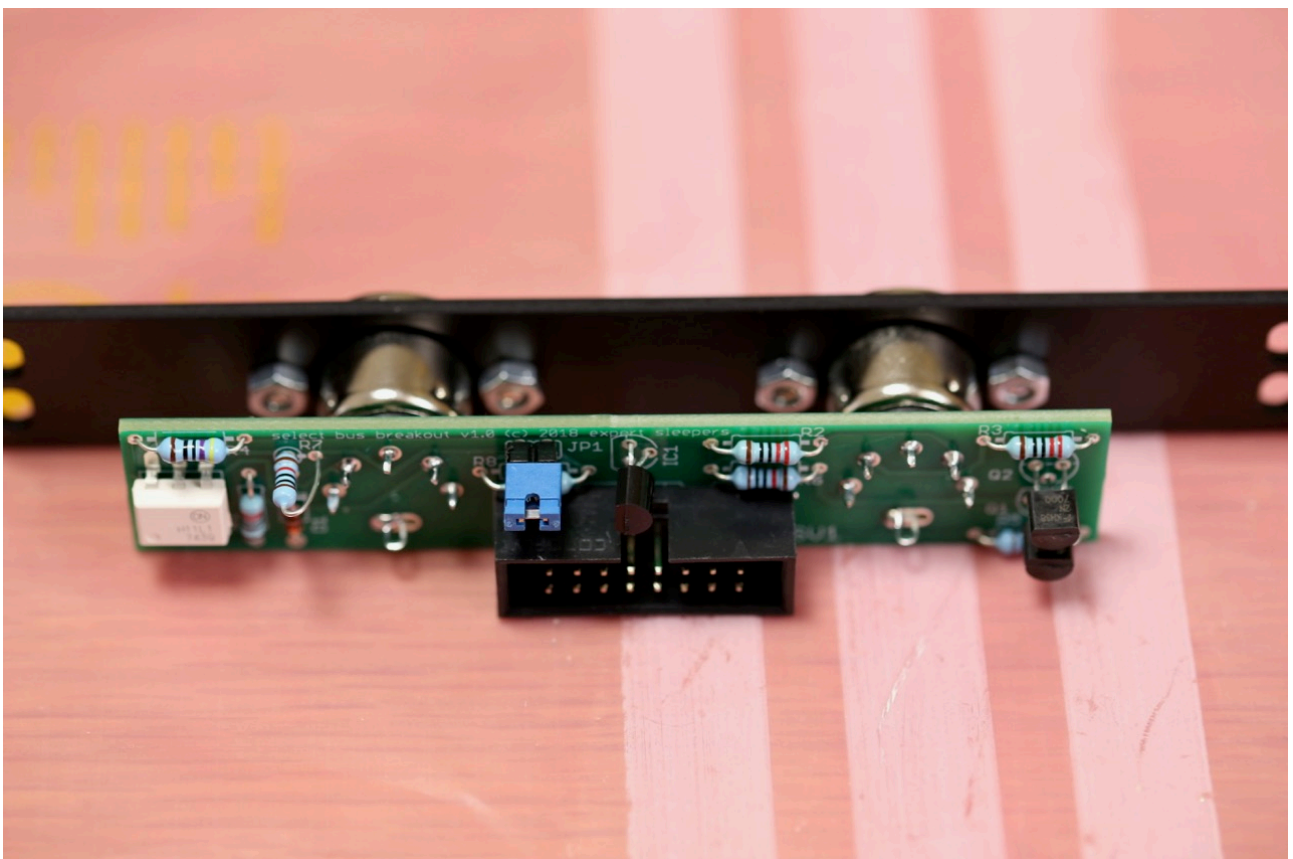
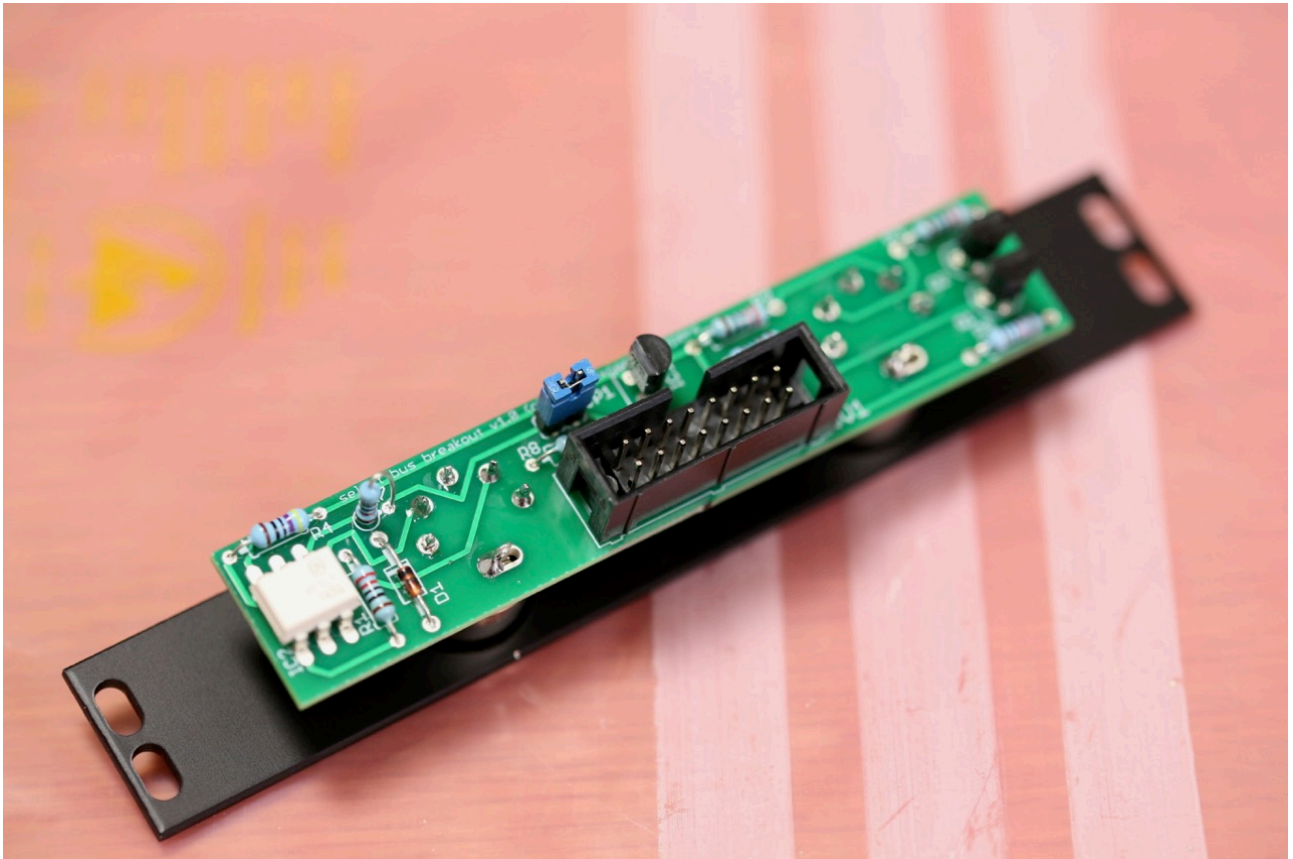
14. Insert and solder SV1

Insert the 16 way header. Note the orientation of the keying hole.



15. Solder the DIN sockets to the PCB

Solder the two DIN sockets to the PCB.



16. You're done!

