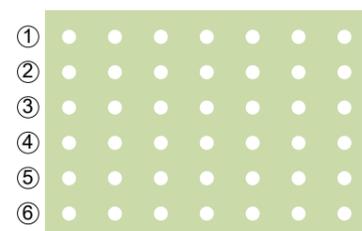
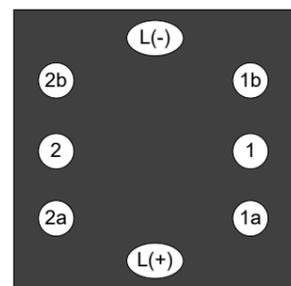


Parts & Descriptions

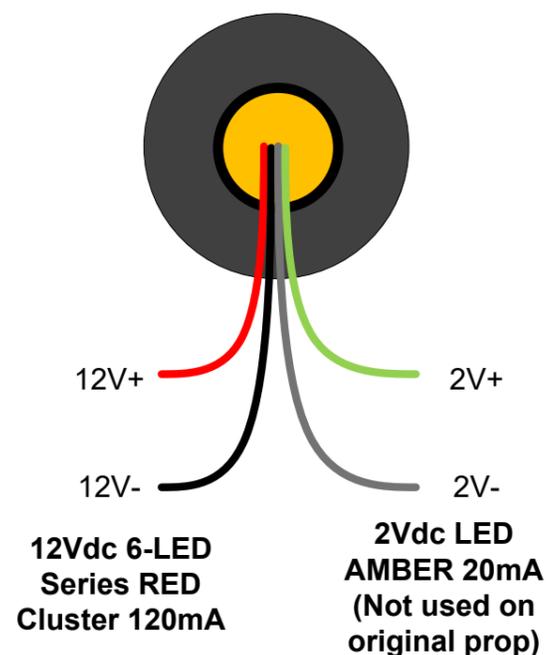
Veroboard



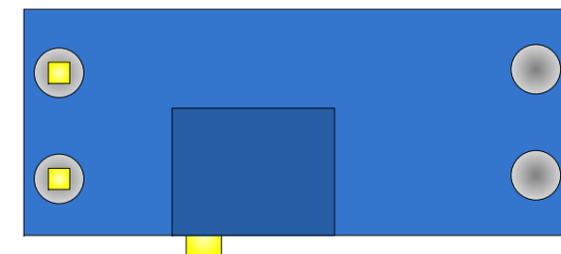
NKK Switch Terminals
TL22DCAW015C



Cluster LED Terminals
NOT INCLUDED IN KIT
(AVAILABLE FOR PURCHASE
SEPARATELY)



VREG



Included:

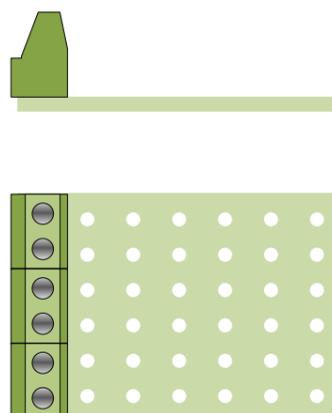
- Various Colour Wire
- Various Colour/Size Heatshrink
- 9V Battery Holder
- DC-DC Voltage Regulator (VREG)
- NKK Switch - TL22DCAW015C
- 560Ohm 1/2W Resistor
- 3 x 2-Terminal Screw Headers

Required Equipment:

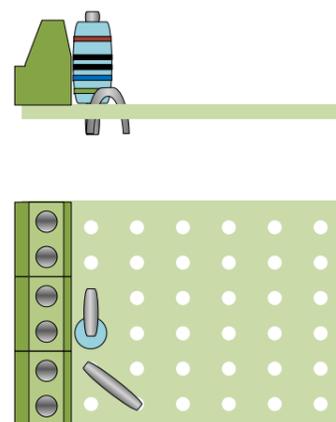
- Original BUND Housing (or replica with Cluster LED)
- Soldering Iron
- Multimeter
- Heat Gun
- Wire Stripers
- Needle Nose Pliers
- Flush Cutters
- Superglue/Enamel Paint

Assembly Instructions

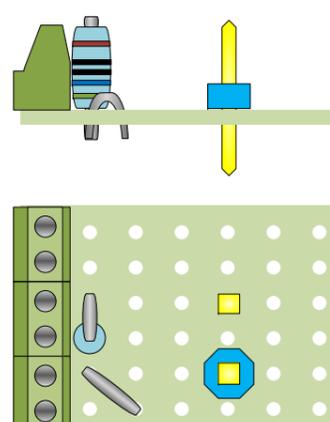
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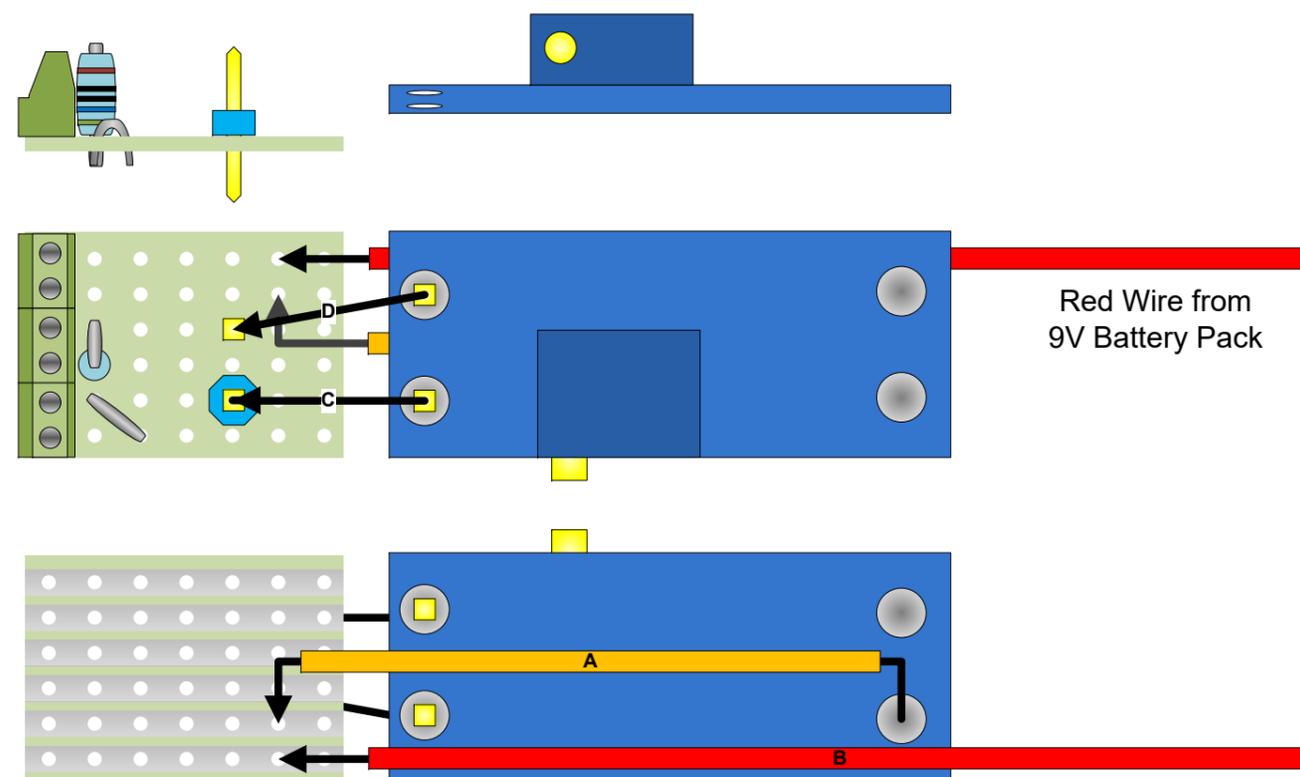
2



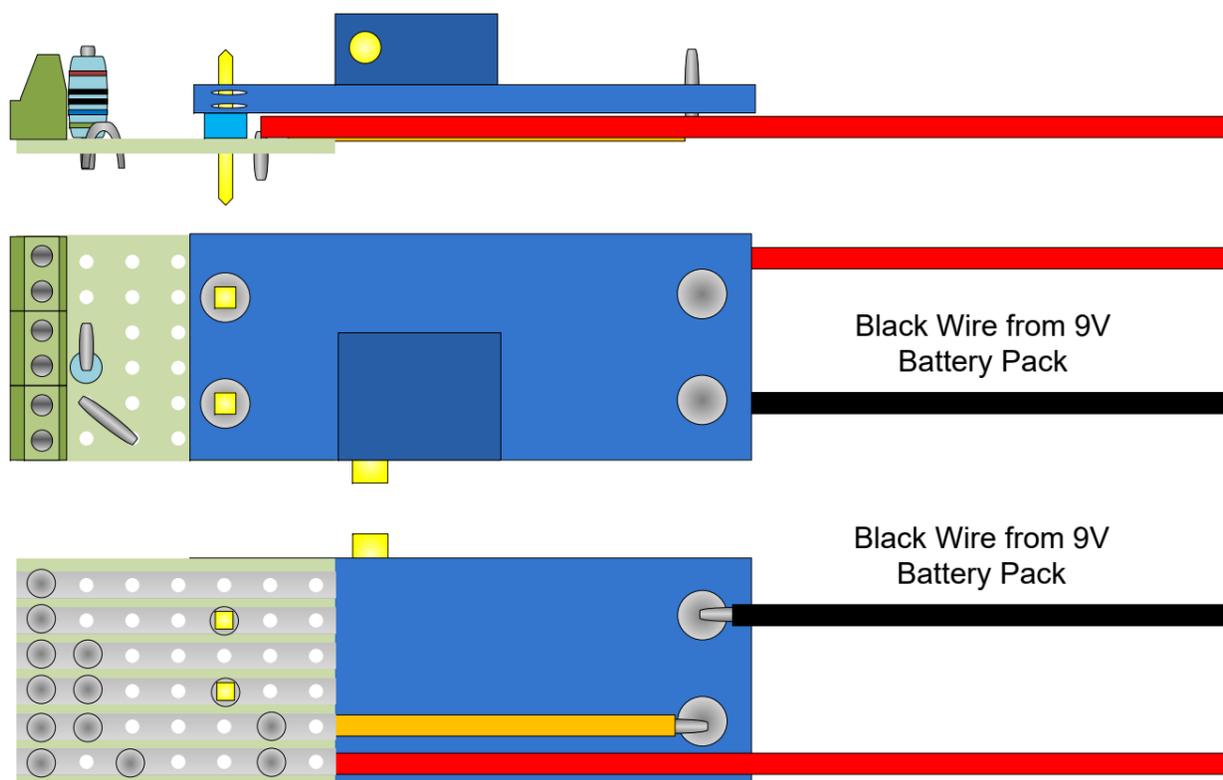
3



4



5



- 1: Insert & Solder 3 x Green headers
- 2: Insert 560k 1/2w Resistor between row 3 and 4, Insert wire offcut (can be from the resistor leg or wire) between row 5 and 6, solder & trim excess
- 3: Insert Single Header pin with spacer into row as shown, insert single header pin without spacer into row 3
- 4: Connect a wire between "VIN+" and Row 2 marked "A" Connect the red wire from the 9V battery pack to Row 1 marked "B" line up the VREG Board over the Veroboard Connection "C" (OUT-) will line up easily however due to the layout you will need to put a small bend in the pin for "D" (Out+) see Reference Photo 1 for further Guidance
- 5: Connect the Black wire from the battery pack to the VREG (VIN-)
- 6: **You now must Bias the Board before wiring to the LEDs, FAILURE TO DO SO WILL RESULT IN DAMAGE!!!!**

Biassing the VREG (Voltage Regulator)

1: Insert 9V battery into battery holder (switched off) & Connect a multimeter between connection 3 (+) and 5 (-) and set to DC Voltage mode

2: Turn the small screw on the VREG board anti-clockwise several times to begin the process

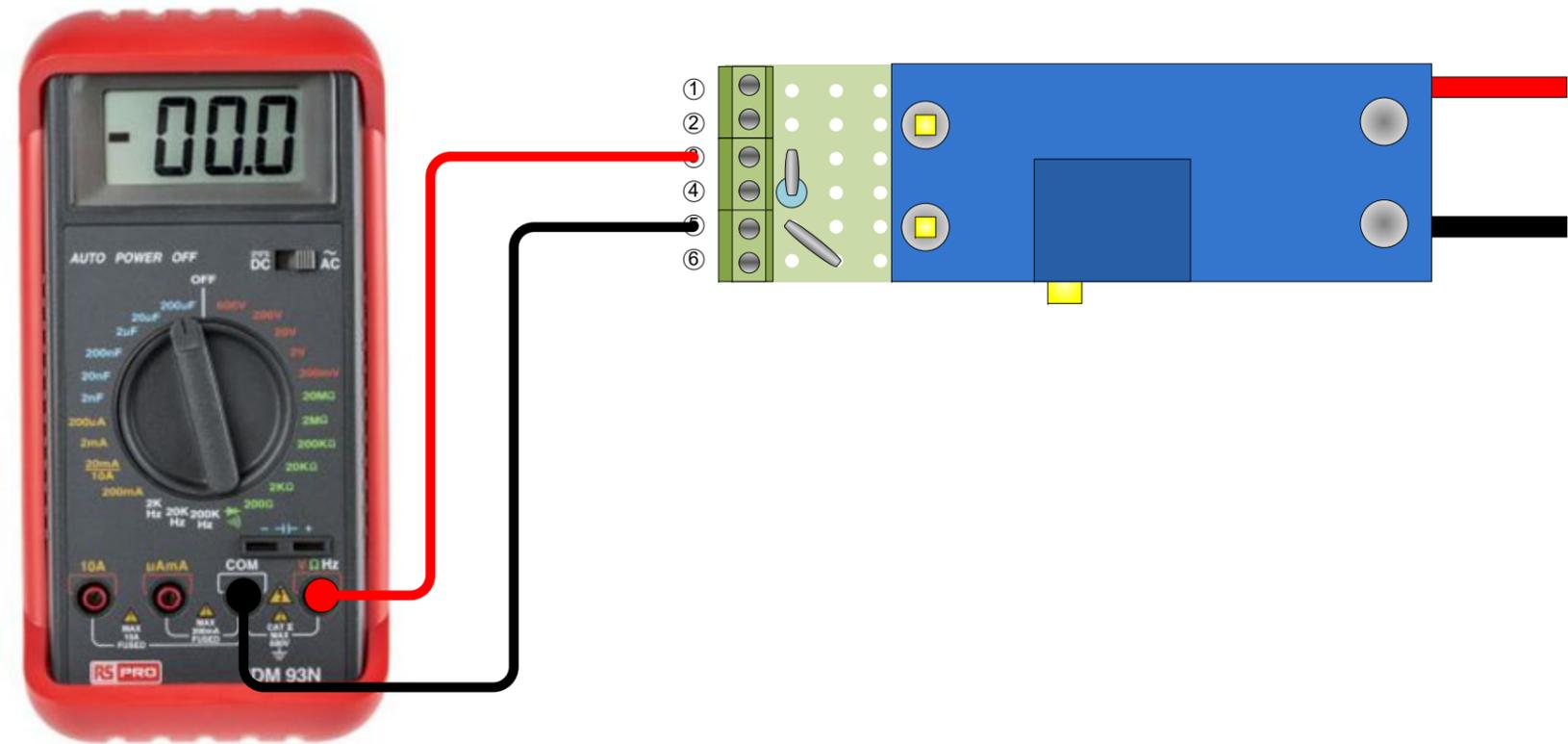
3: turn on the 9V battery pack the multimeter should now read 0.00V

4: slowly turn the screw clockwise until the multi meter reads 11.75V and stop

5: you have now Biassed the VREG, for safety we recommend applying a small dot of glue or hobby enamel paint to the screw to ensure it stays in position

6: you can now wire the board as described below and your set to go!!

7: Use the included Heatshrink to protect your board & contacts from shorting (refer to photos)



- To Pin 2 on Switch (9V+ Out) ①
- To Pin 2b on Switch (9V+ Return) ②
- To Red Wire on Cluster Led (12V+ Out) ③
- To Pin L(+) on Switch (2V+ Out) ④
- To Black Wire on Cluster Led (GND) ⑤
- To Pin L(-) on Switch (GND) ⑥

