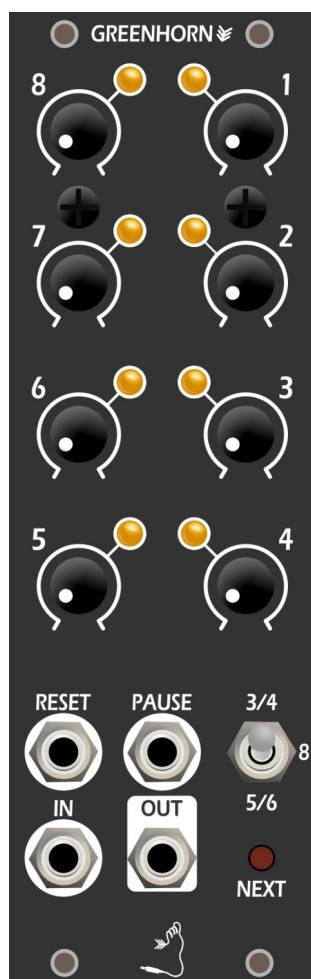


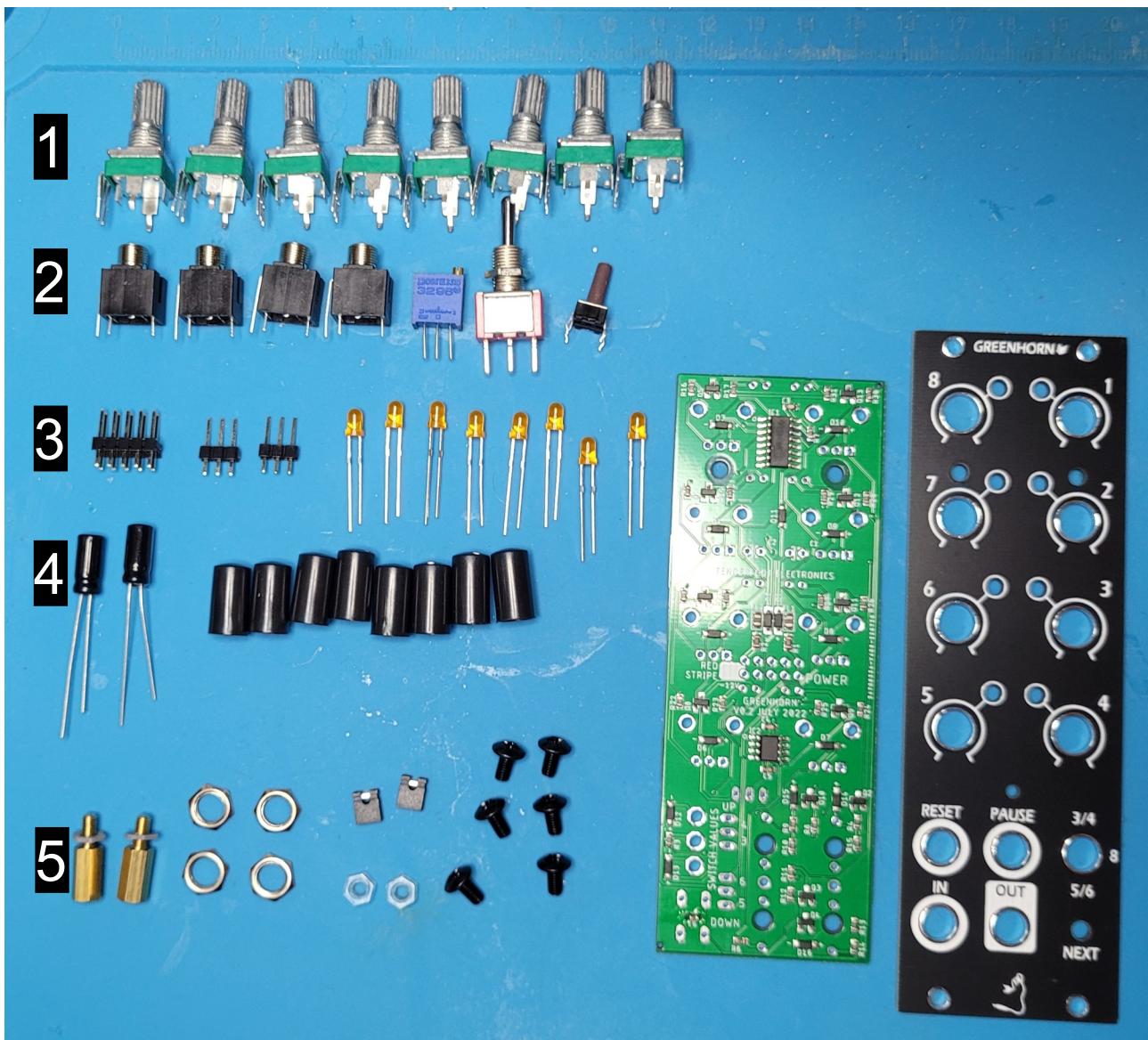
GREENHORN DIY

8-step sequencer



05/09/2022

Kit Contents – check that you have all of these parts



1x PCB
1x Display panel

Row1:
8x 50k potentiometers

Row2:
4x Thonkiconn Jacks 1x trim potentiometer 1x 3-position switch(with nut) 1x tactile switch

Row3:
1x 10-pin power header 2x 3-pin male header 8x amber LED

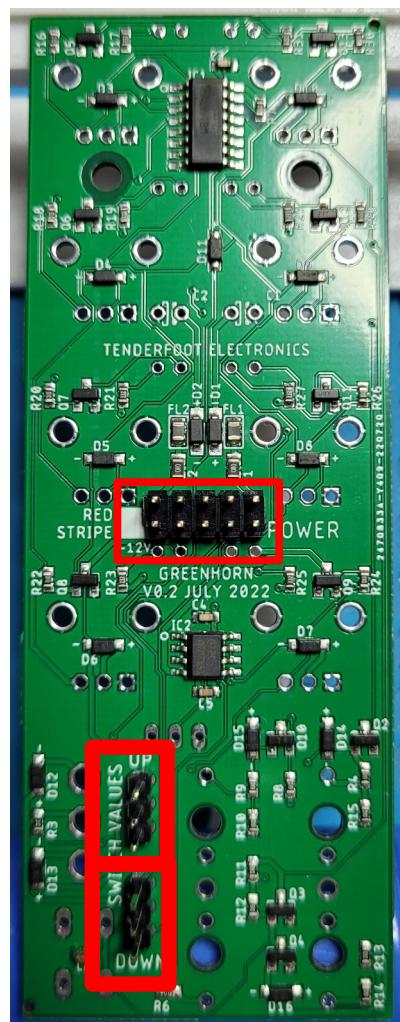
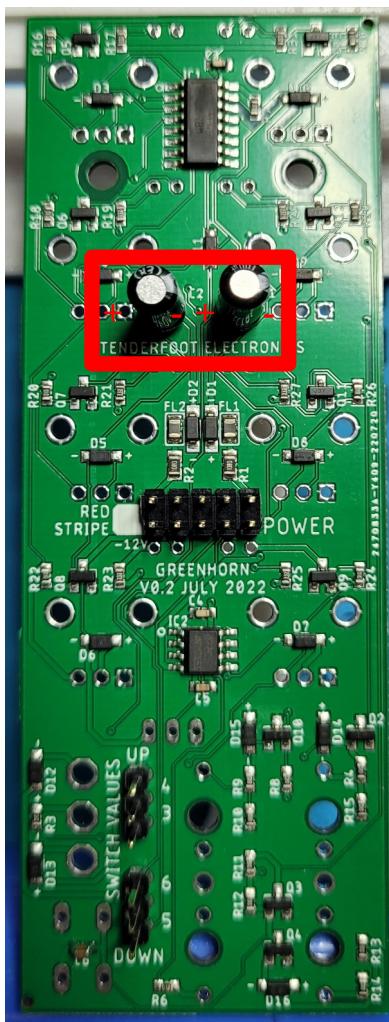
Row 4:
2x electrolytic capacitor 8x 8mm knob

Row 5:
2x 10mm standoff + washer 4x jack nuts 2x jumpers 2x nylon washer 6x m3 machine screws

Step 1

Place the Power header and 2 other 3-pin headers in the bottom-side of the PCB.

Turn the board over and solder these in place, making sure they stay straight.



Step 2

On the back of the PCB, insert the 2 electrolytic capacitors.

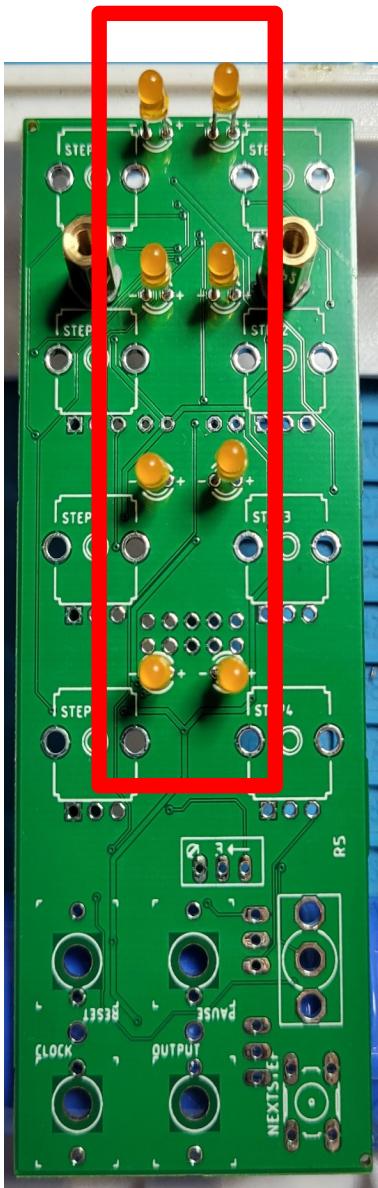
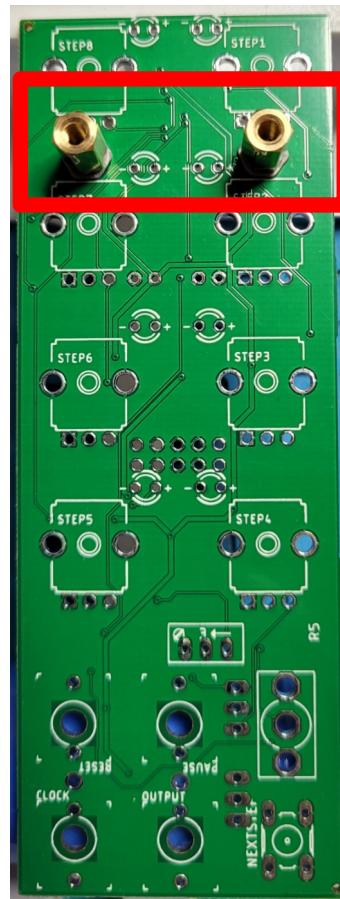
Make sure the positive leg (the longer of the two) is on the left, and the negative leg (marked by the white stripe on the body of the capacitor) is to the right of each capacitor.

Making sure the capacitors are straight and flush with the board, turn the PCB back over and solder them in place.

Cut the remaining leads flush with the PCB.

Step 3

Insert the 2 brass stand-offs into the top of the circuitboard and secure them using the clear plastic nuts.

**Step 4**

Insert all of the LEDs in the marked positions on the top of the PCB

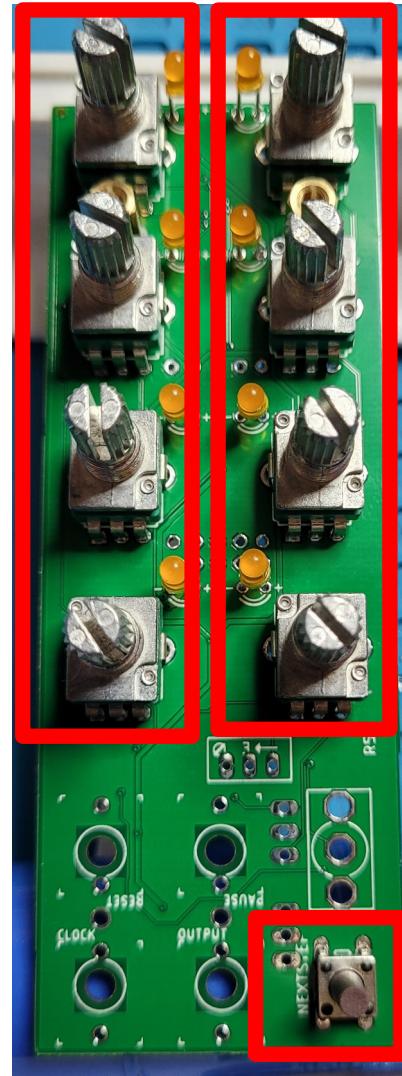
The positive leg (the longer leg) should be aligned with the "+" marked to the right of each LED position on the PCB.

DO NOT SOLDER THE LEDS YET!!!

Step 5

Next, insert the 8 potentiometers and the tactile switch in the positions marked on the PCB

DO NOT SOLDER THEM YET!!!

**Step 6**

Next, insert the blue trim potentiometer and 3-position switch in their marked position.

Make sure the screw shaft of the trimmer is aligned in the top-left as marked on the PCB

Keeping the 3-position switch in the centre position will help with later steps.

DO NOT SOLDER THEM YET!!!

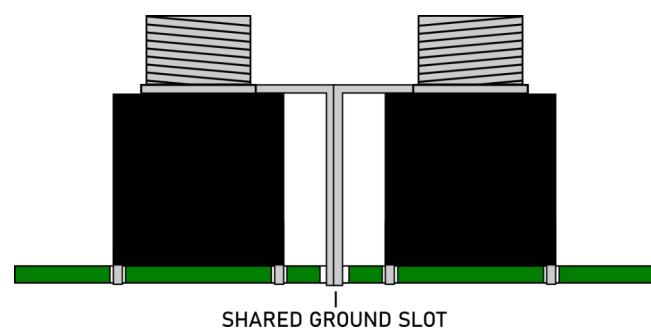
Step 7

Place the 4 thonkiconn 3.5mm jacks in their marked positions on the PCB

The upper 2 jacks are arranged with their ground pin (the exposed pin) pointing towards the bottom, and the lower 2 jacks have their ground pins pointing towards the top of the board.

The ground pin holes are shared between the upper and lower jacks.

DO NOT SOLDER THEM YET!!!



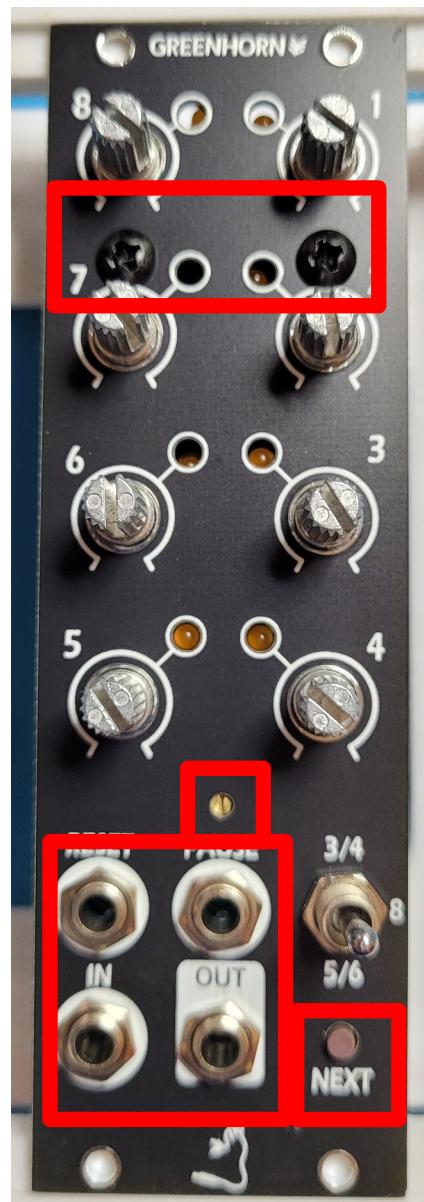
Step 8

Place the panel on the module.

Insert the 2 M3 screws into the brass stand-offs and tighten.

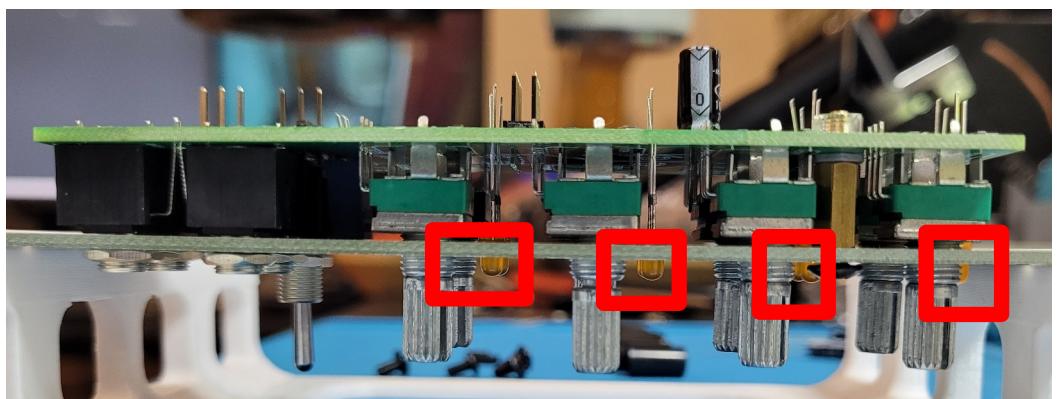
Place the nuts on the jacks and 3-position switch and tighten.

Make sure the screw of the trim potentiometer and the tactile switch are aligned with the holes on the panel.



Step 9

Turn the module so the panel is face-down on the work surface, and make sure all of the LEDs emerge through the holes in the panel.



Step 10

Now is the time to solder all of the panel-side components to the PCB.

SOLDER EVERYTHING!

Step 11

Add one jumper to each of the 3-pin headers to select the sequence length for the up and down switch positions.

Double check all the solder joints, check for cold joints and shorts, attach the power cable, plug it in and test your new sequencer.

Have fun and make cool sounds!

