

## Assembly Guide

# Assembly Guide

With this kit, you can swiftly build your DCSN3 using the provided assembly instructions and all necessary components.

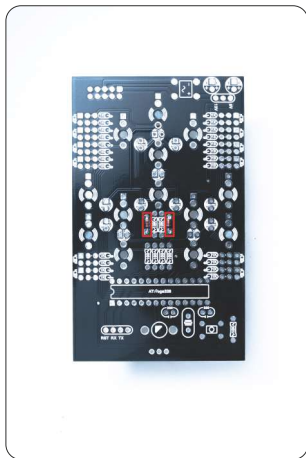
You'll need a soldering iron, wire cutter, solder, desoldering pump, and nut driver. Follow the instructions carefully in the correct order for a successful build.

Robaux wishes you an enjoyable DCSN3 building experience!



## 1 Diodes

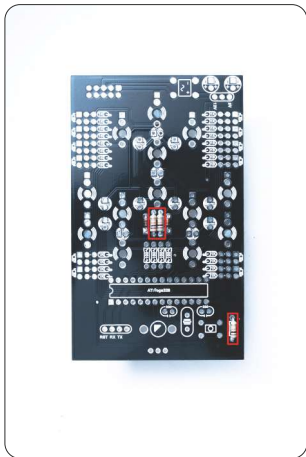
Begin by soldering two diodes to the board as depicted in the picture. Be mindful of the polarity; match the stripe on the printed diode symbol with the black mark on the diode.





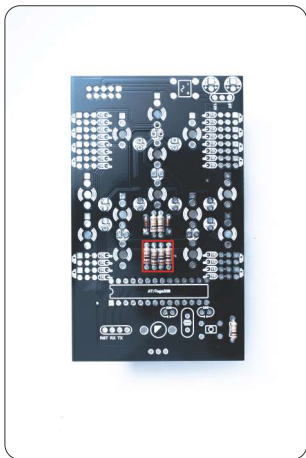
## 2 Resistor 10K

Next, solder the three 10K resistors to the board. Identify them by their color code: brown, black, orange, gold.



## 3 Resistor 100

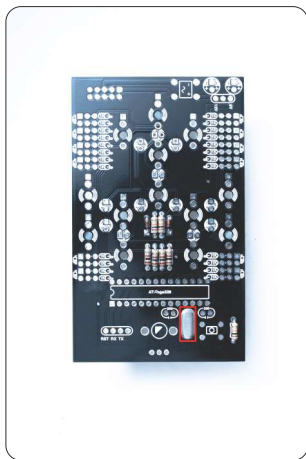
Now, solder the four 100-ohm resistors to the board. Identify them by their color code: brown, black, brown, gold.





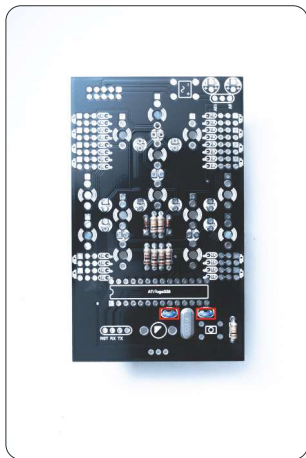
## 4 Crystal

Solder the 16MHz crystal as shown in the picture.



## 5 Capacitor 220

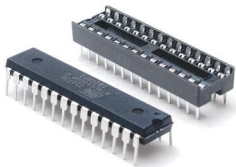
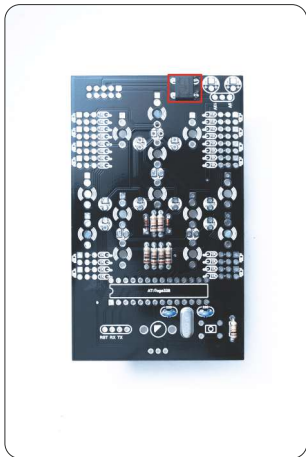
Solder the two 220 capacitors to the board as indicated in the picture.





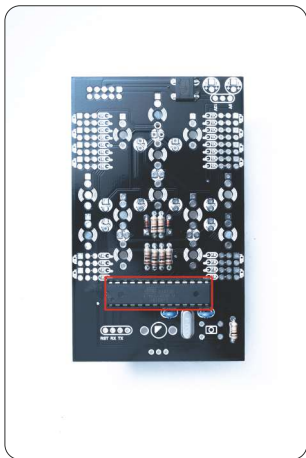
## 6 Rectifier

Now, solder the rectifier to the PCB according to the arrangement displayed in the picture. Ensure that the - and + symbols on the board align with the corresponding symbols on the rectifier.



## 7 Socket and IC

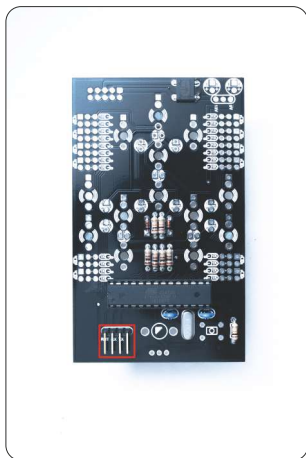
Solder the IC sockets to the board, starting with the outer pins and then the remaining ones. Once done, you can directly install the IC, ensuring that its nose points to the left.





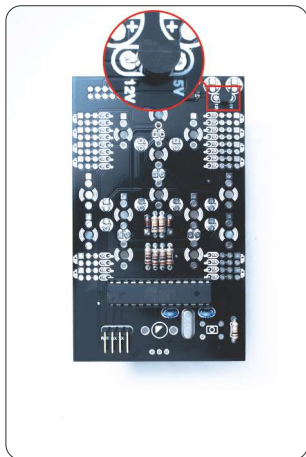
## 8 Pin Header

Place the pin header as shown in the picture. It is the shorter pins of the header that you solder in.



## 9 Voltage regulator

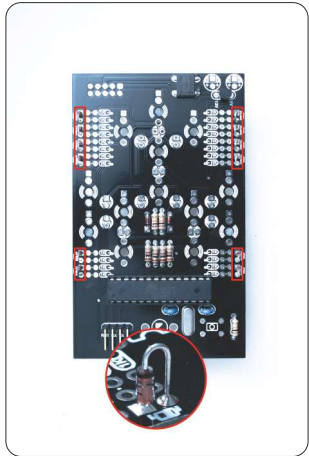
Solder the voltage regulator following the arrangement shown in the picture. Ensure the flat side faces up and the round side faces down.





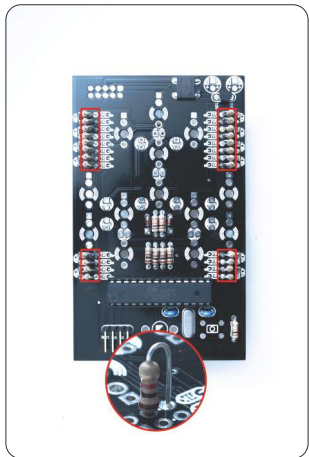
## 10 Diodes

Solder the remaining 12 diodes upright on the board as shown in the picture. Pay attention to the polarity, aligning the stripe on the printed diode symbol with the black mark on the diode.



## 11 Resistor 1K

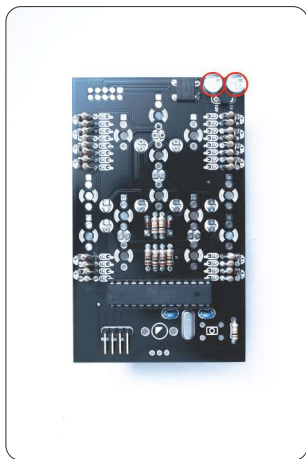
Solder the 1K resistors upright on the board following the arrangement in the picture. Identify the resistors by their color code: brown, black, red, gold.





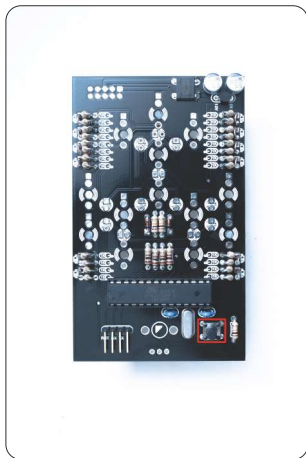
## 12 Capacitors

Solder the two Electrolytic Capacitors to the board following the picture. Pay attention to the Capacitors' polarity, ensuring that the blue mark aligns with the mark on the PCB.



## 13 Tact Switch

Insert the tact switch and solder it directly onto the board. Ensure there is no space between the board and the switch when soldering.

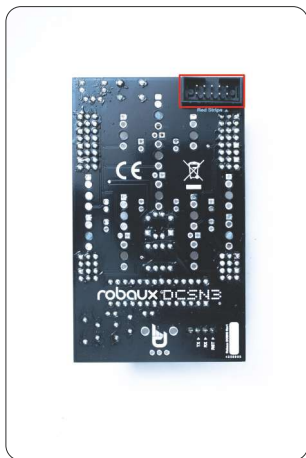






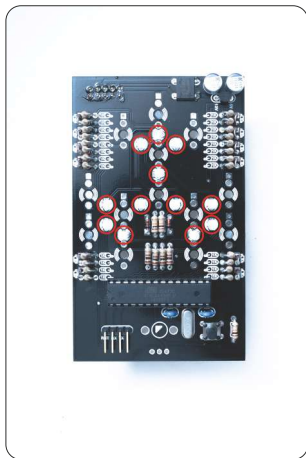
## 14 Power Socket

Flip the board over and solder the power connector onto the other side.



## 15 LEDs

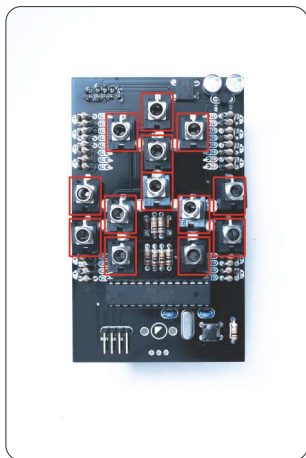
Plug the 12 LEDs into the board according to the picture. **Don't solder them for now.** Double-check and pay attention to the polarity of the LEDs: the long leg should be inserted into the + hole, while the short leg should go into the - hole.





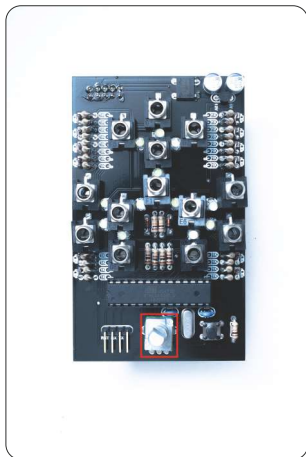
## 16 Thonkiconns

Take the 13 Thonkiconn Jacks and position them on the PCB. **Avoid soldering the jacks at this stage.** For jacks with an LED attached at the upper end, cut off the ground leg. The jacks will still be connected to the ground via the front panel.



## 17 Potentiometer

Insert the potentiometer into the designated location as indicated in the picture. **However, refrain from soldering the potentiometer for now.**





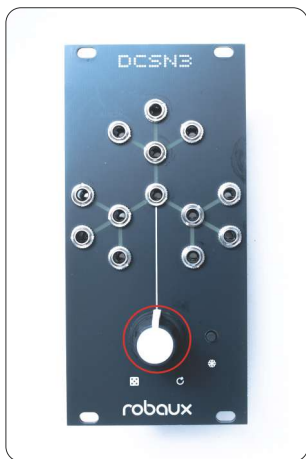
## 18 Nuts

Screw the sockets and the potentiometer to the front panel using nuts. After aligning all components, solder the sockets first, then the potentiometer, and finally the LEDs onto the board.



## 19 Knob

Finally, attach the knob to the potentiometer, and your module is ready to go! Enjoy your creation!



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