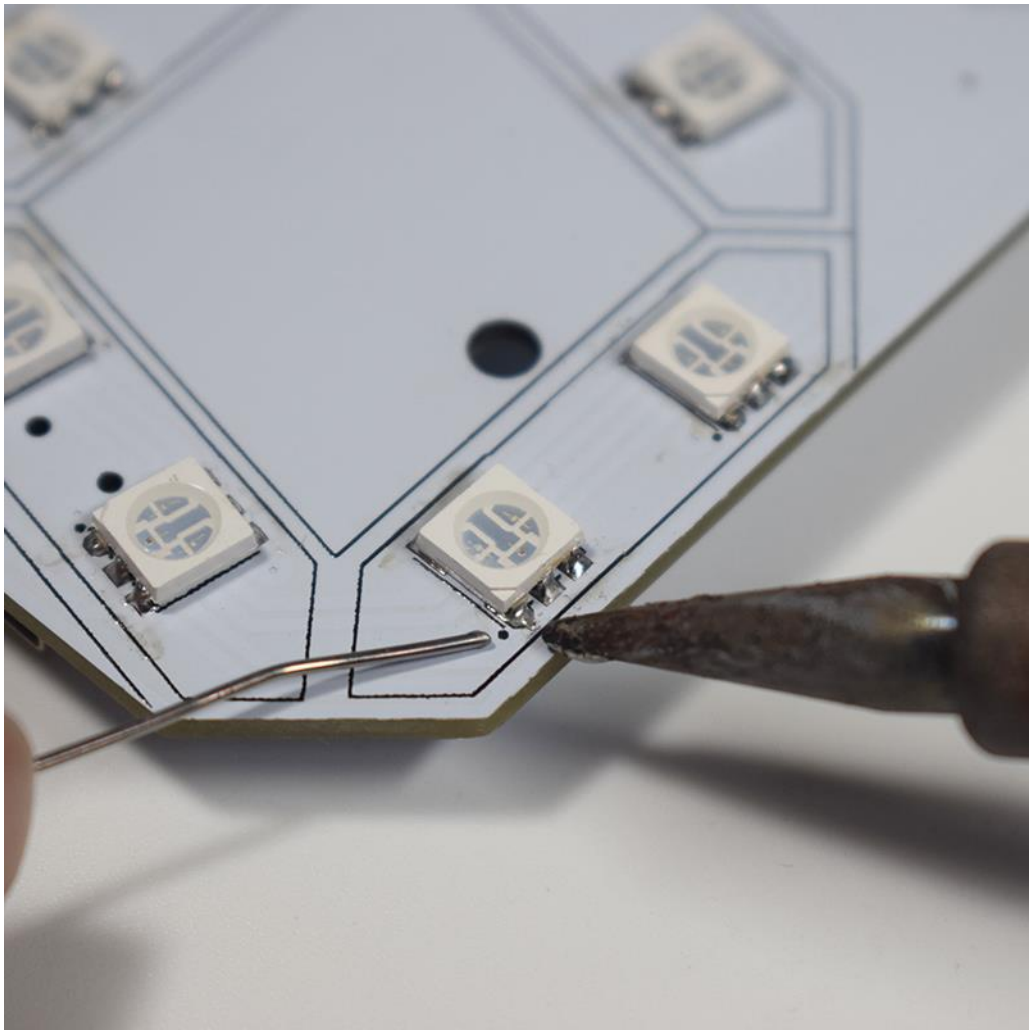
New High-brightness LED Large Size RGB Rainbow Color Digital Tube Clock

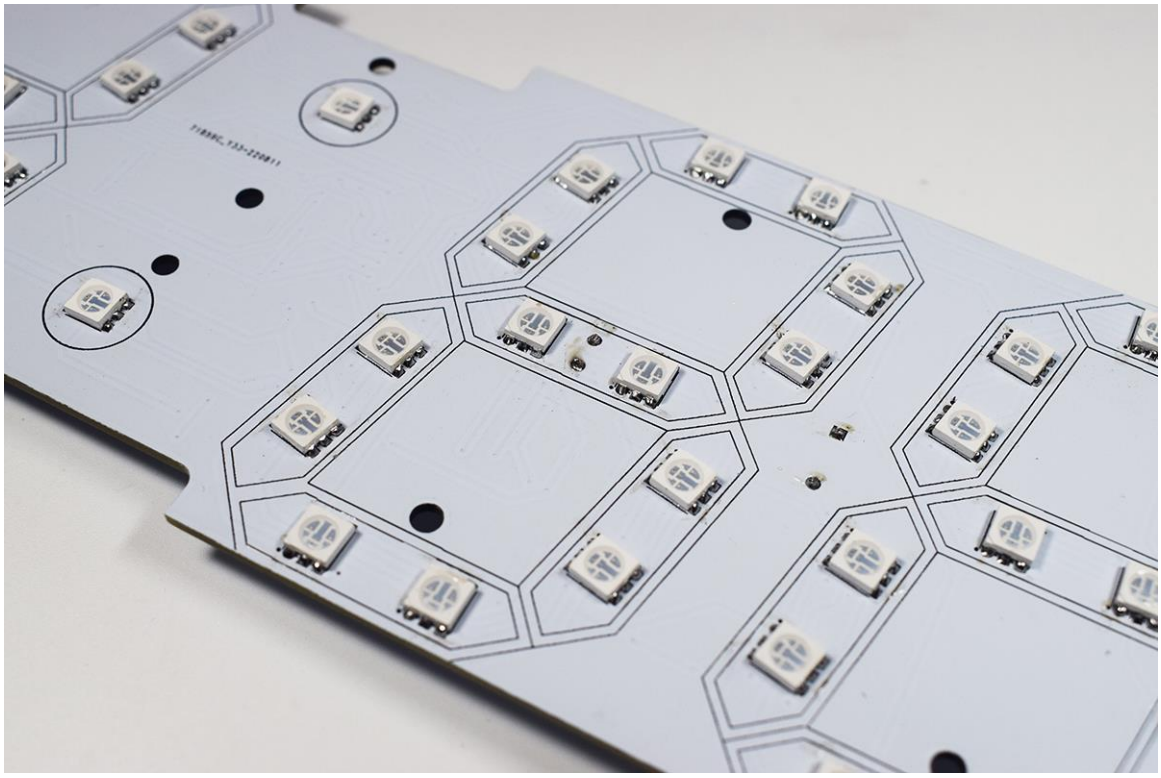
Production Instructions

(If you are buying a **"Already Soldered Version"**, you only need to look at the **"Assembly Part"** below)

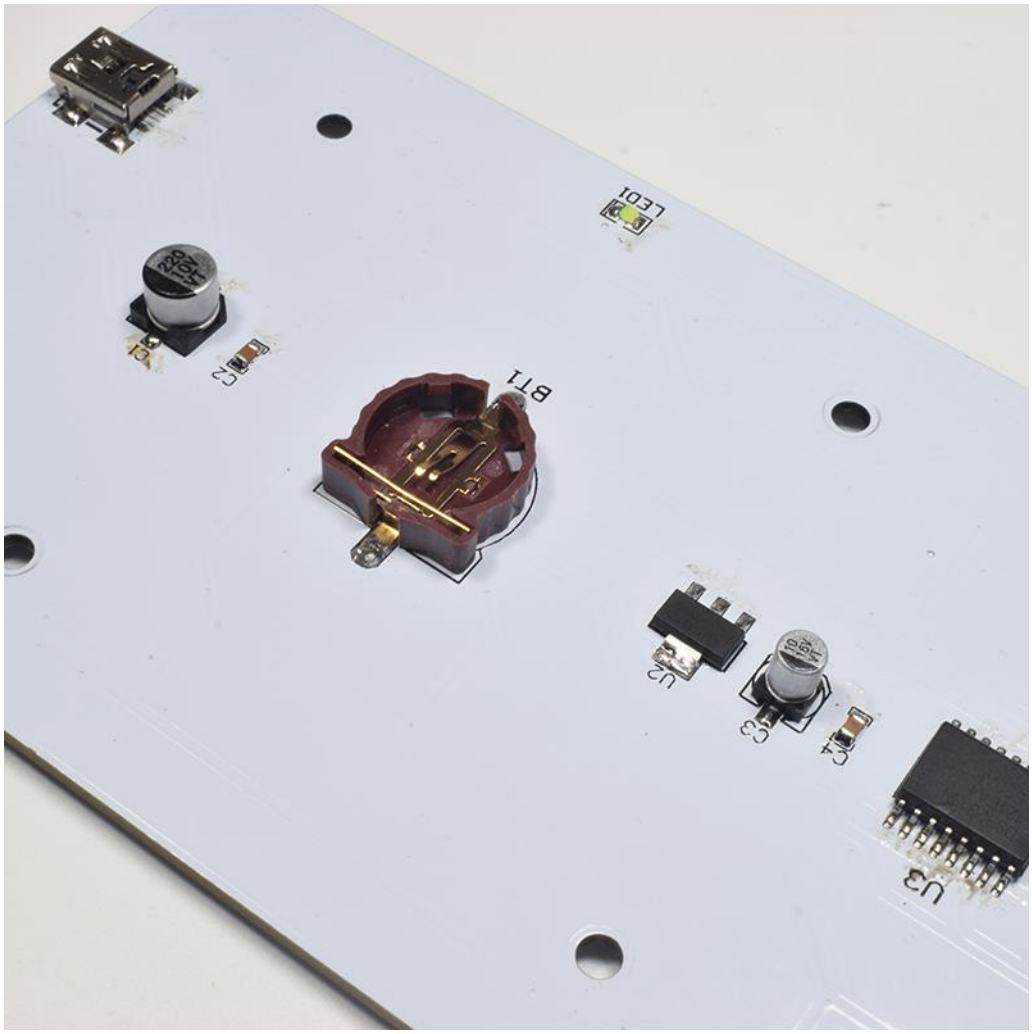
Soldering Part:



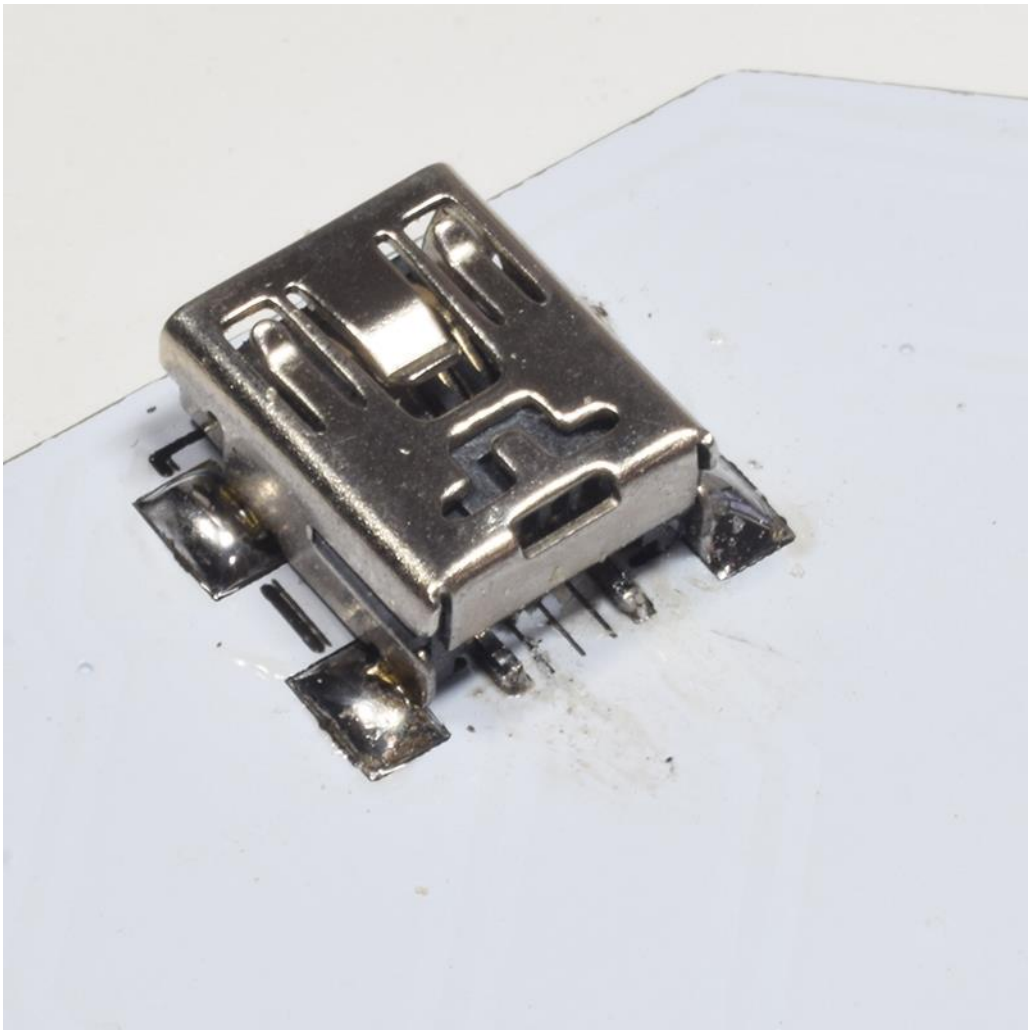
Solder all LEDs on the front of the PCB circuit board first, pay attention to the bevel of the LED corresponding to the pad with black dots, and do not short circuit between each pad.



Check that all LEDs are soldered correctly.

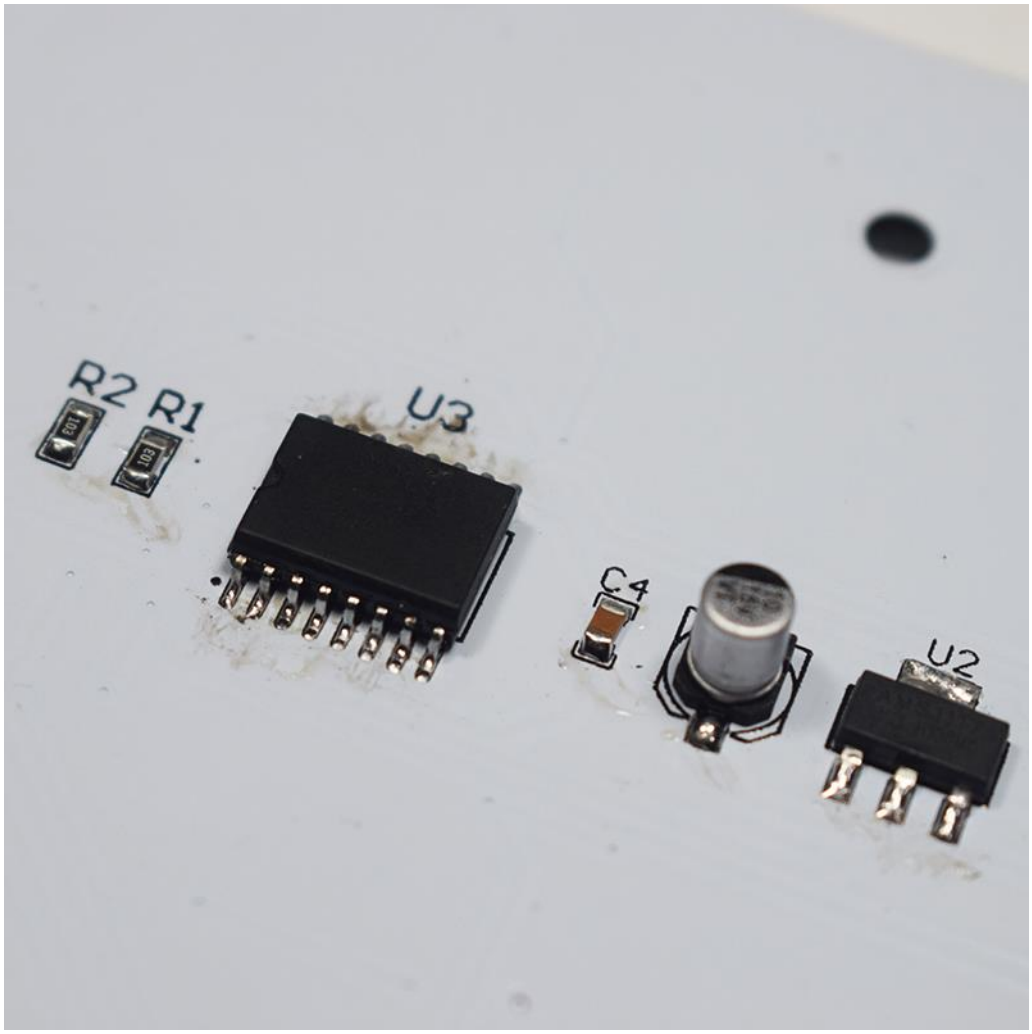


Then solder the components on the back of the PCB board.

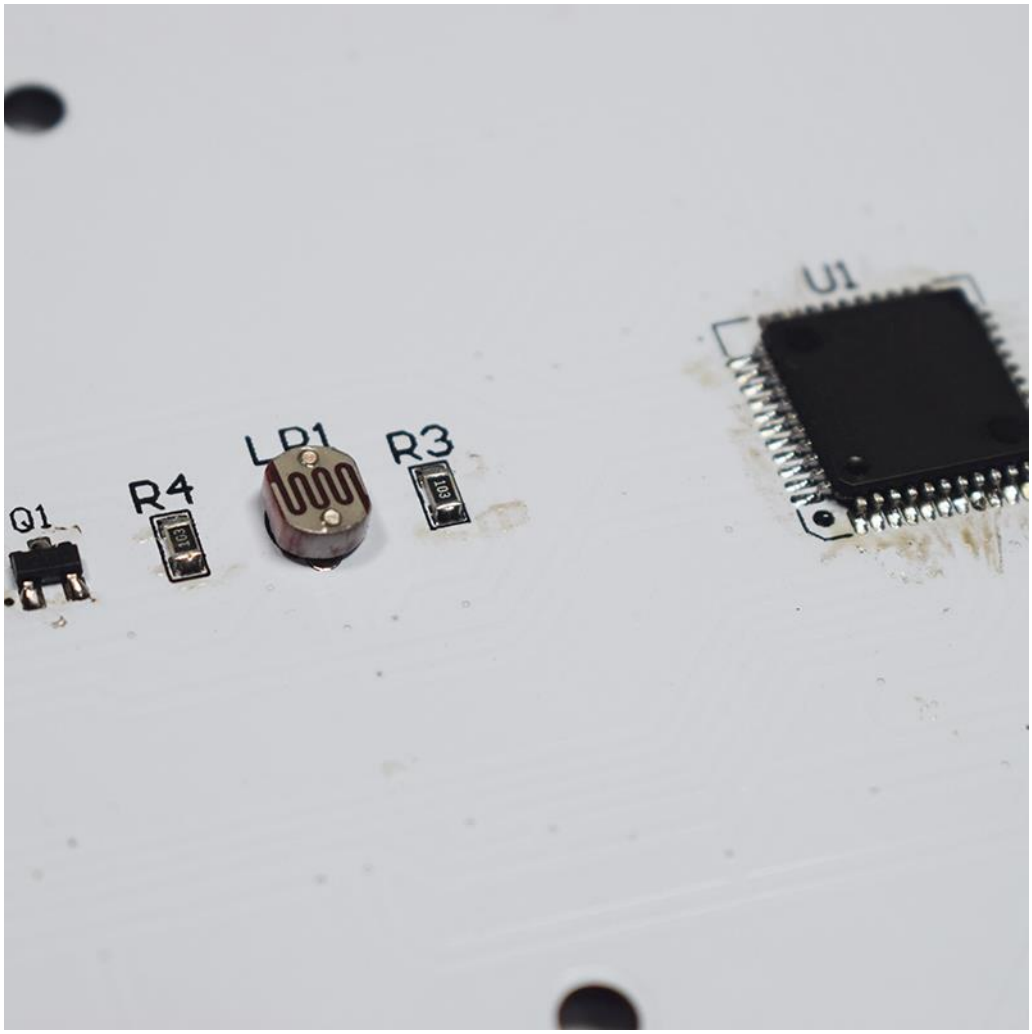


The USB socket only needs to be soldered to the leftmost and rightmost pins (you can cut the middle 3 pins first).

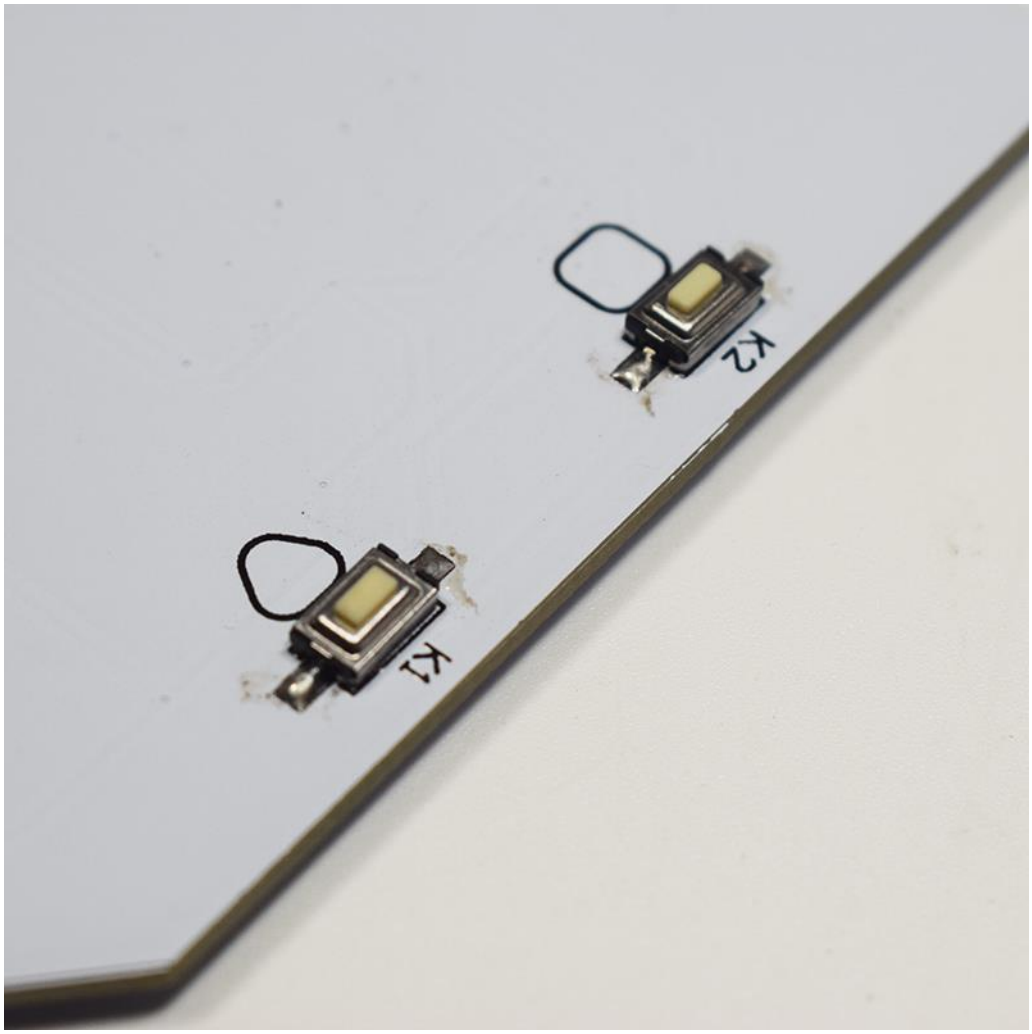
The green dot of this LED corresponds to the pad on the right.



Clock chip part.

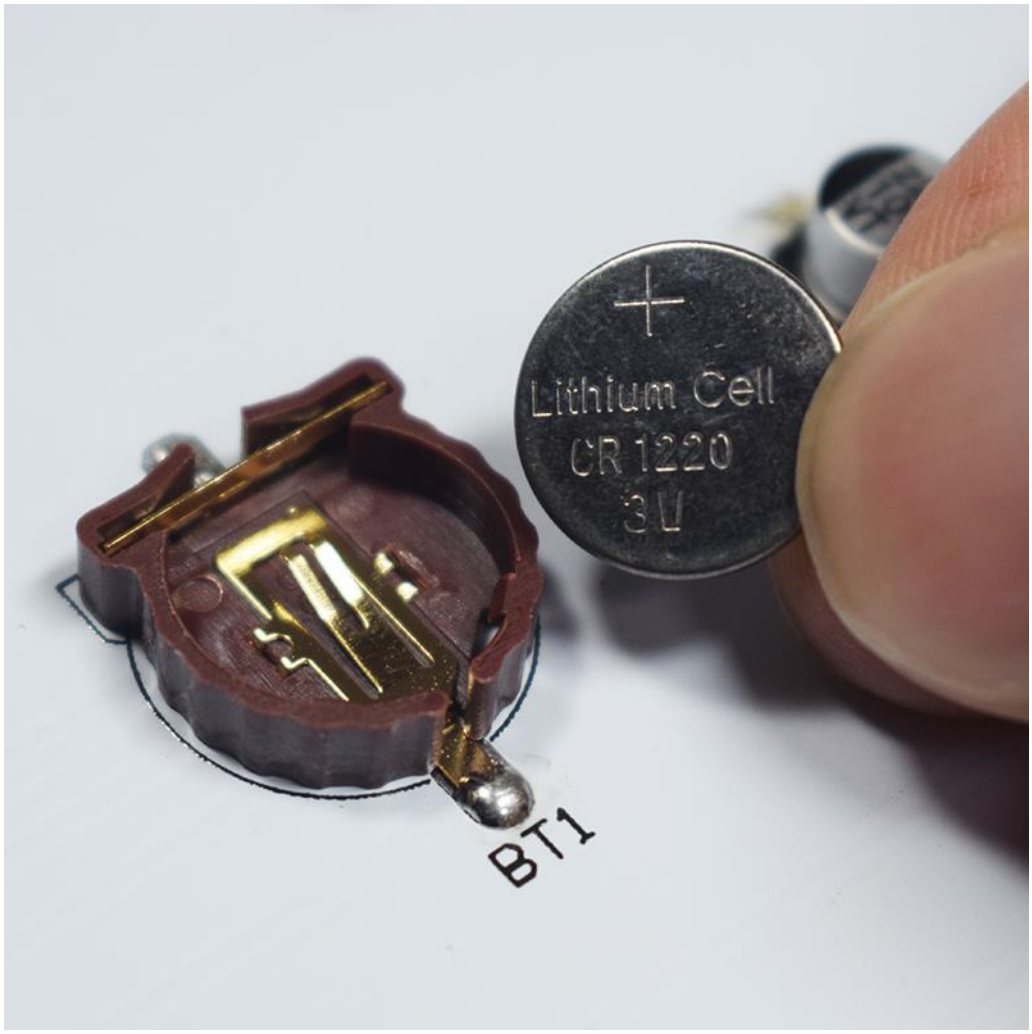


Note that the small dots on the U1 chip correspond to the black dots.



Key section.

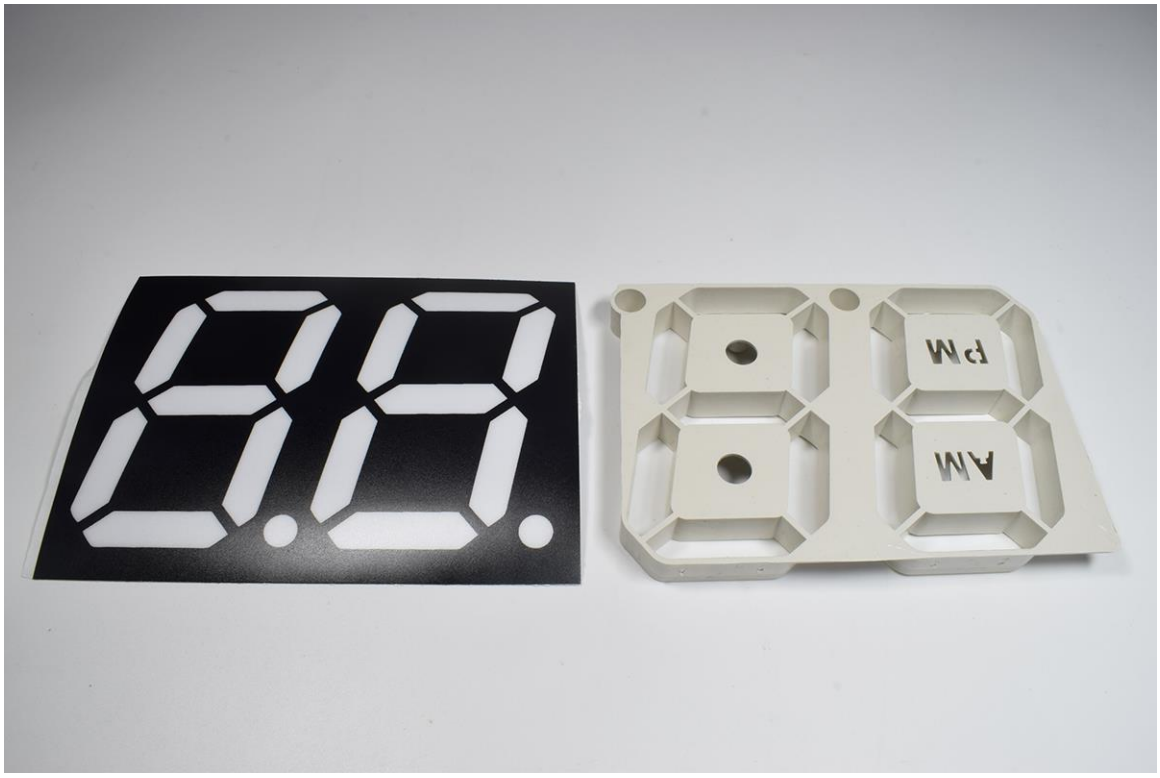
Check all components on the back of the PCB.



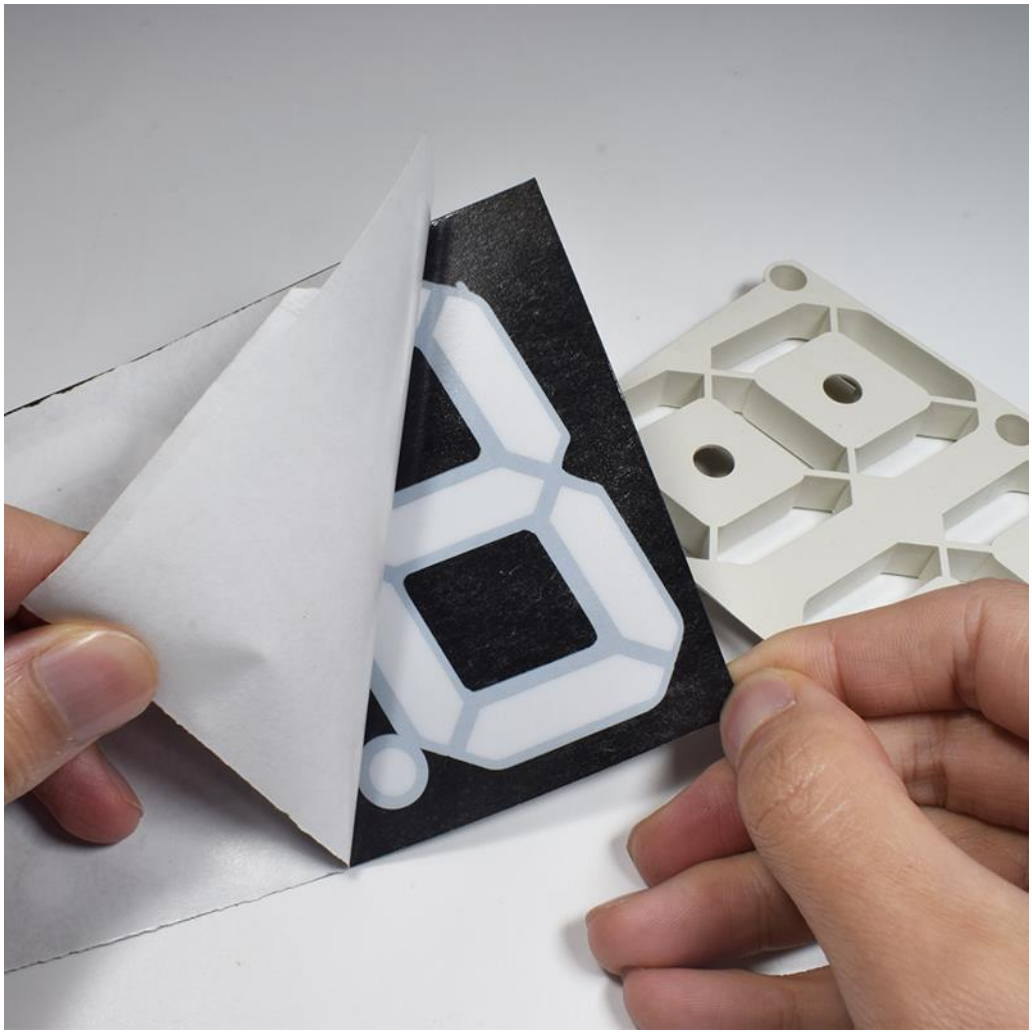
Put in the CR1220 backup battery.

Assembly Part:

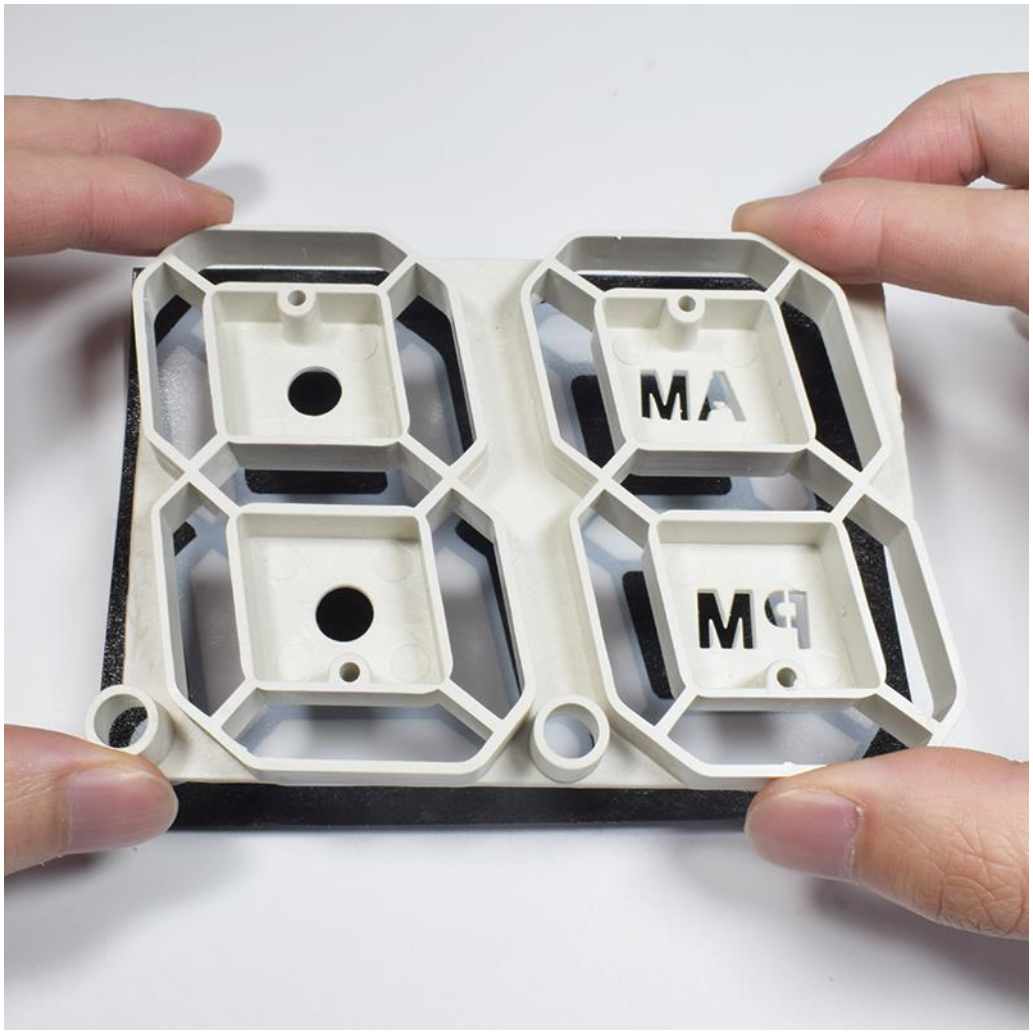
(Before assembly, power on the test circuit board, long press the "Menu key (square pattern)", select "LED menu", and press the "Toggle key (triangle pattern) to see if all LEDs are lit normally")



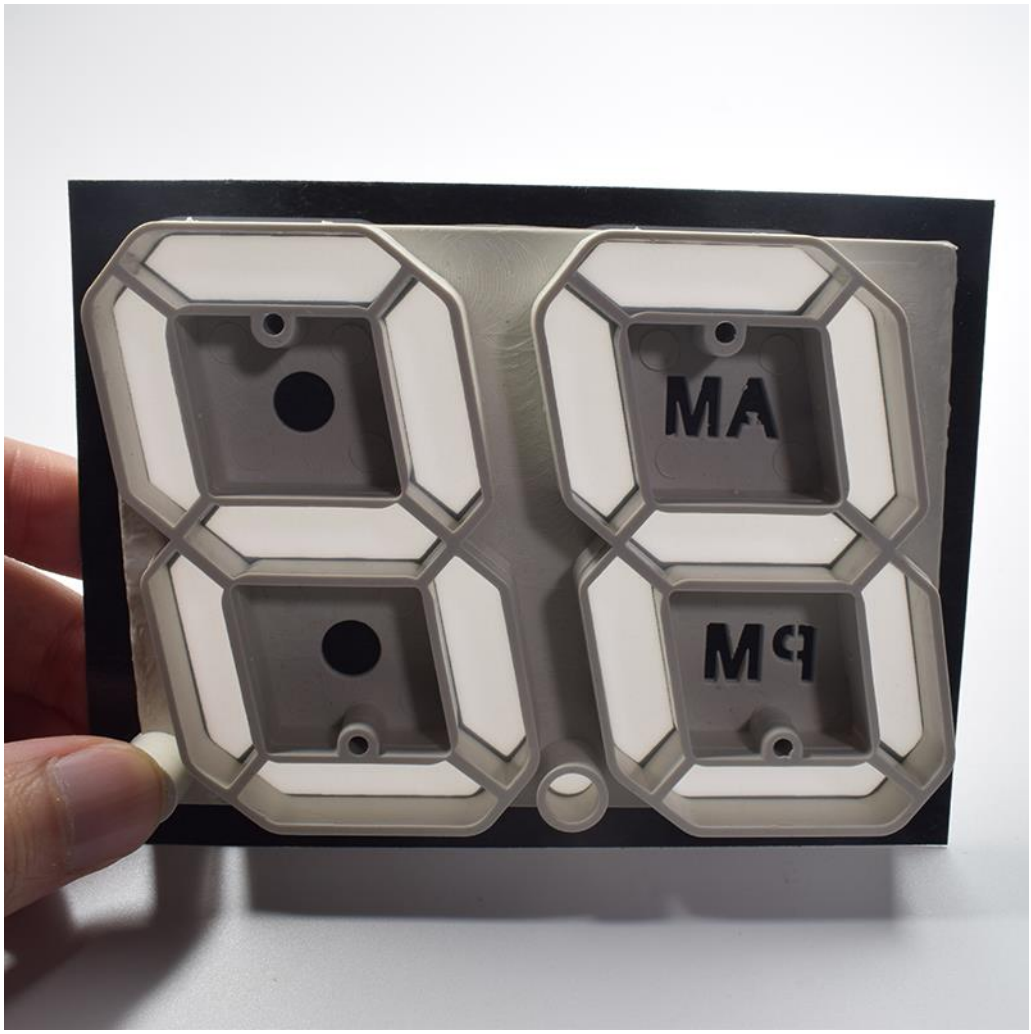
Take out two "figure 8 digital tubes" and the corresponding stickers.



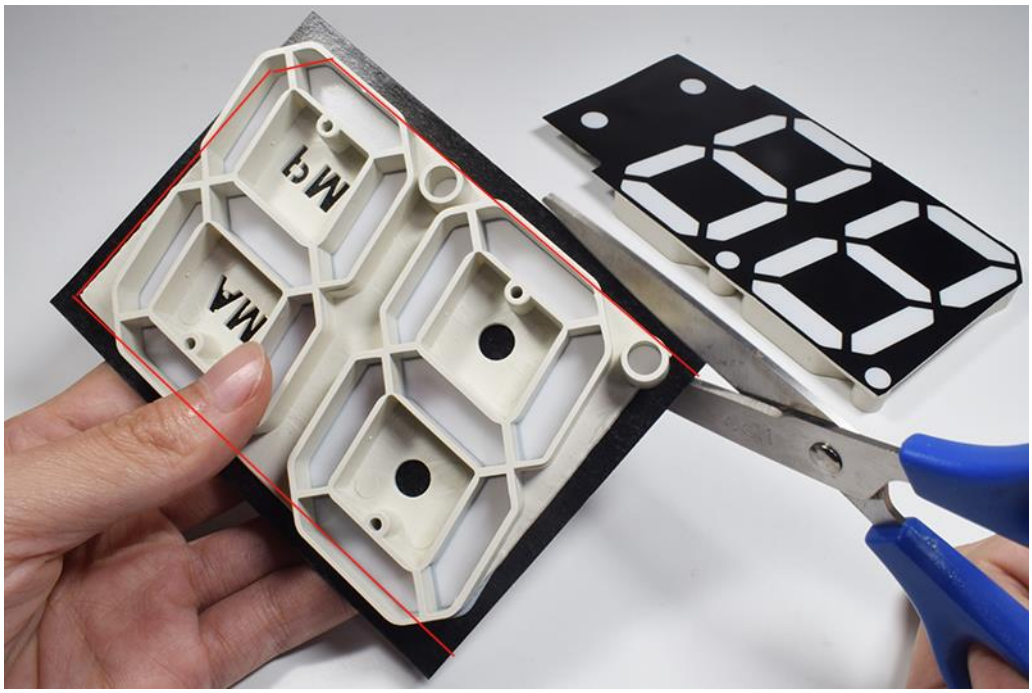
Peel off the bottom sheet.



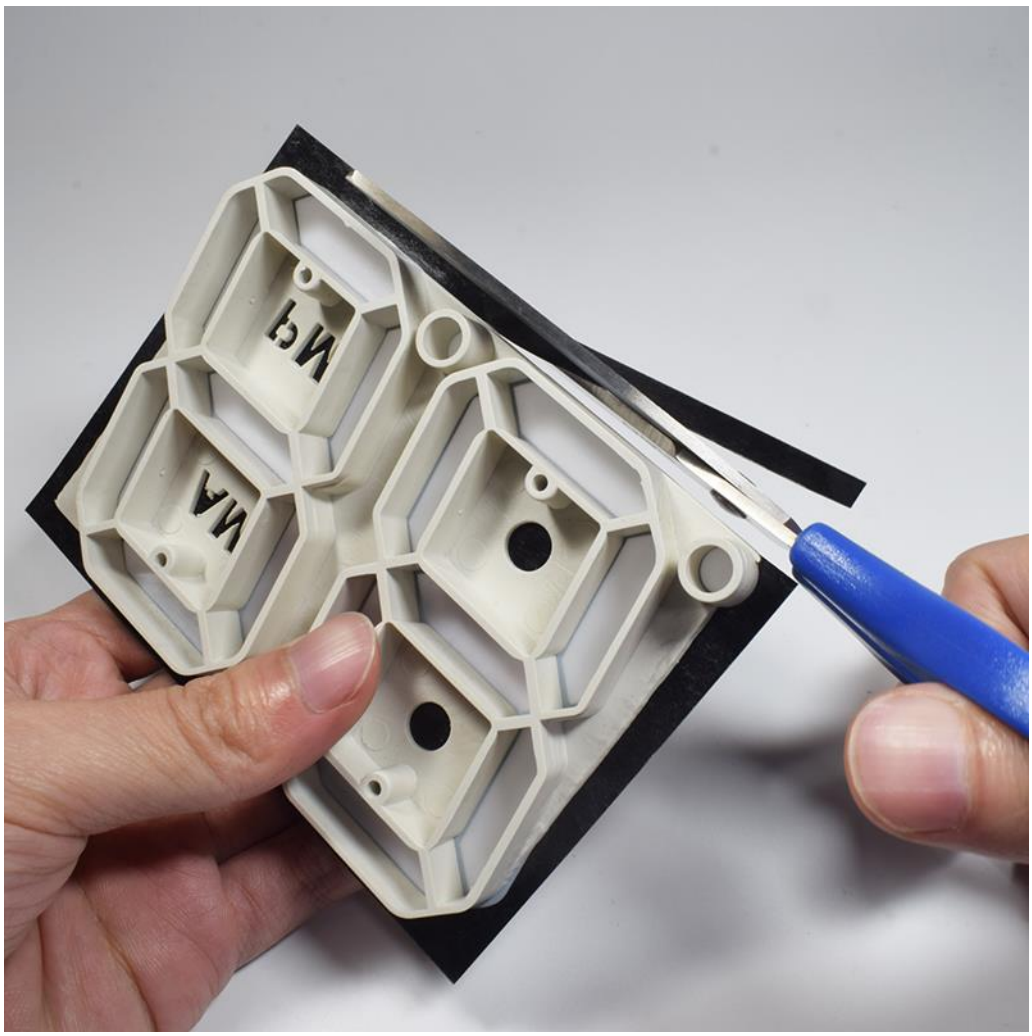
Hold the tube upside down (note the dot position).



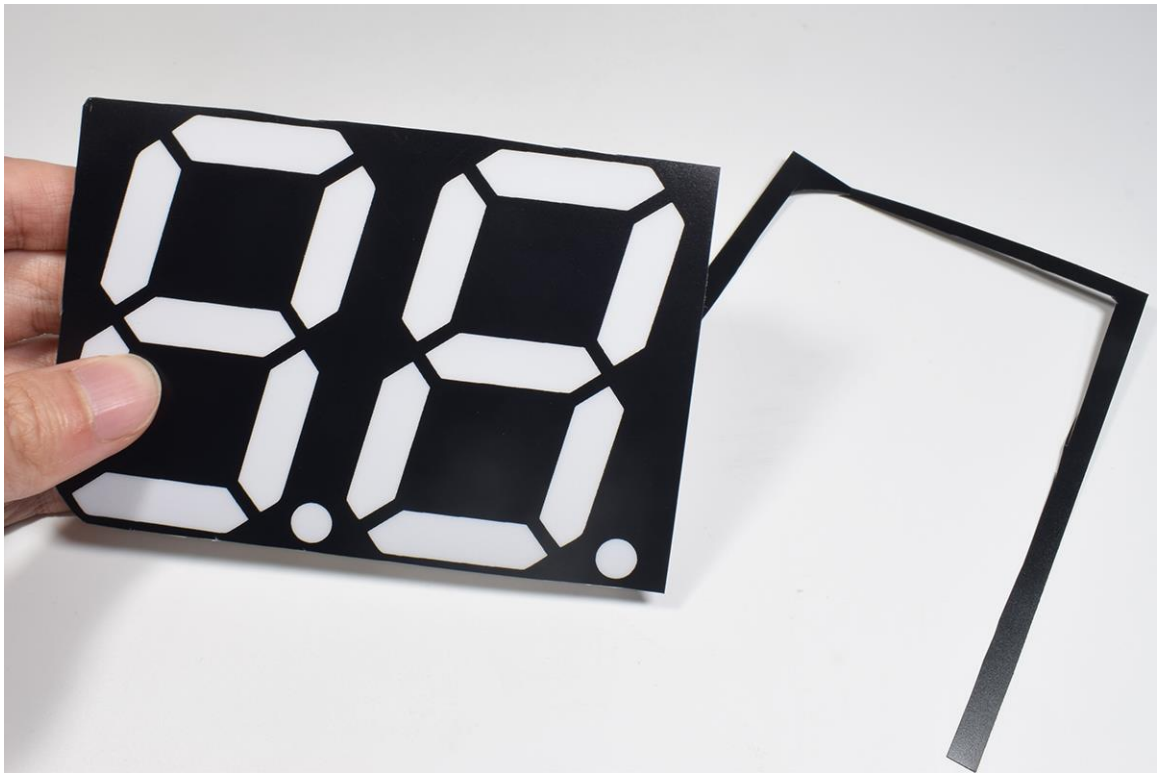
After the test is correct, press the sticker and attach it to the digital tube.



Cut off the excess wrap with scissors following the red line (note: other parts do not need to be cut).

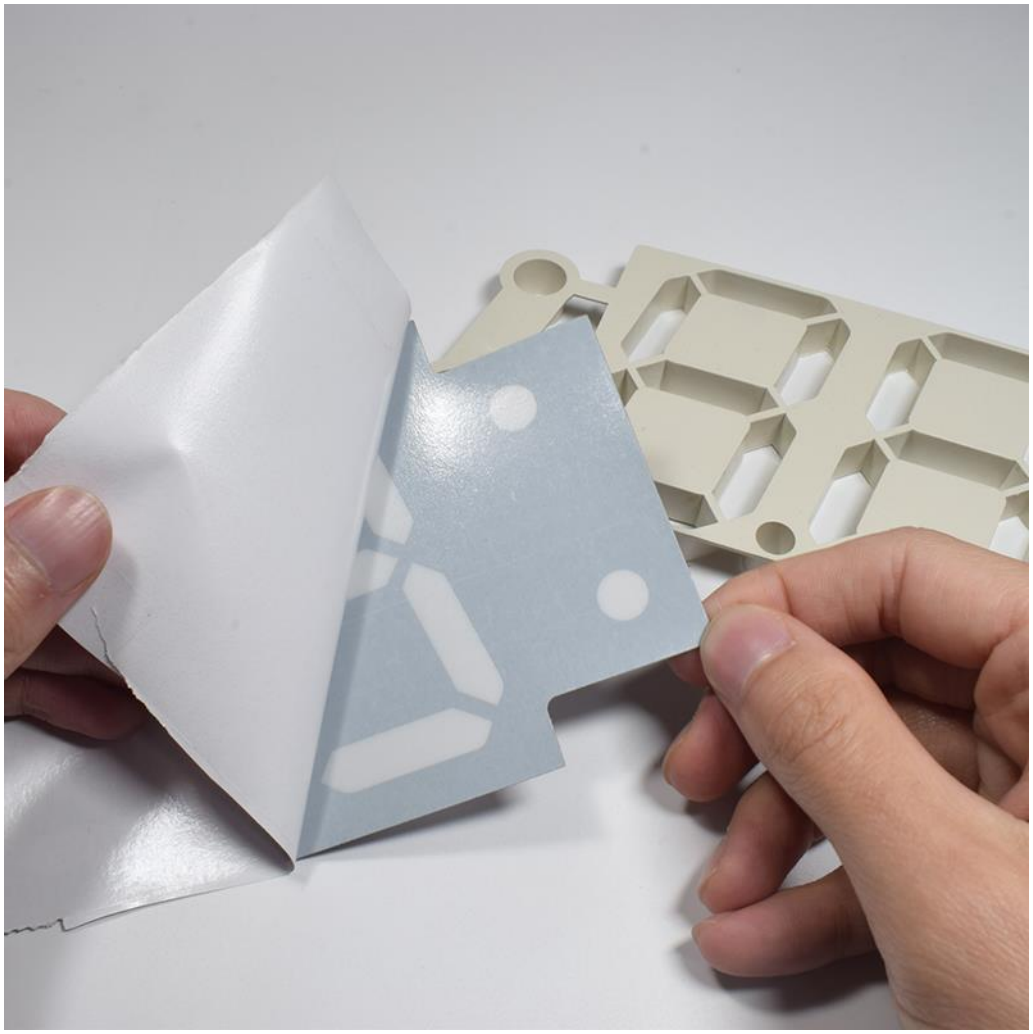


Cut along the edge of the tube.

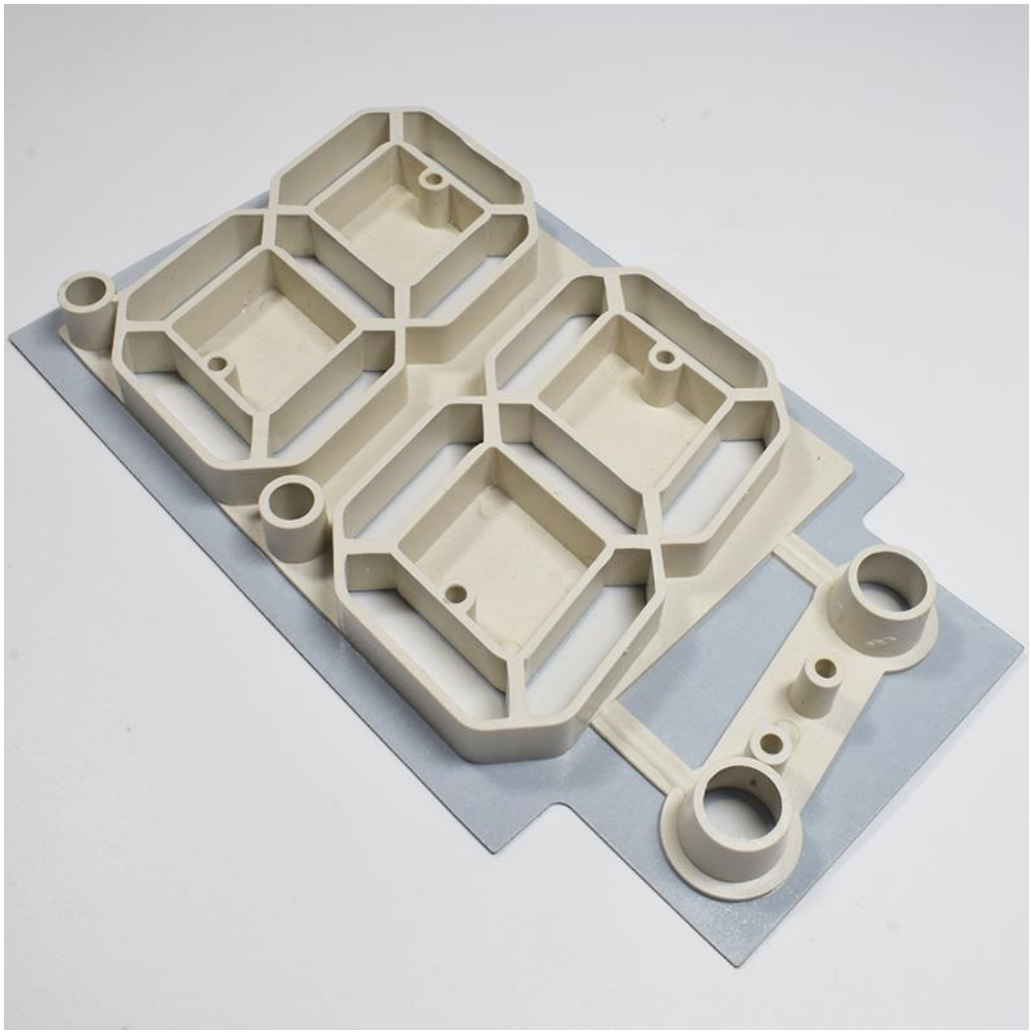


The front side is shown in the picture.

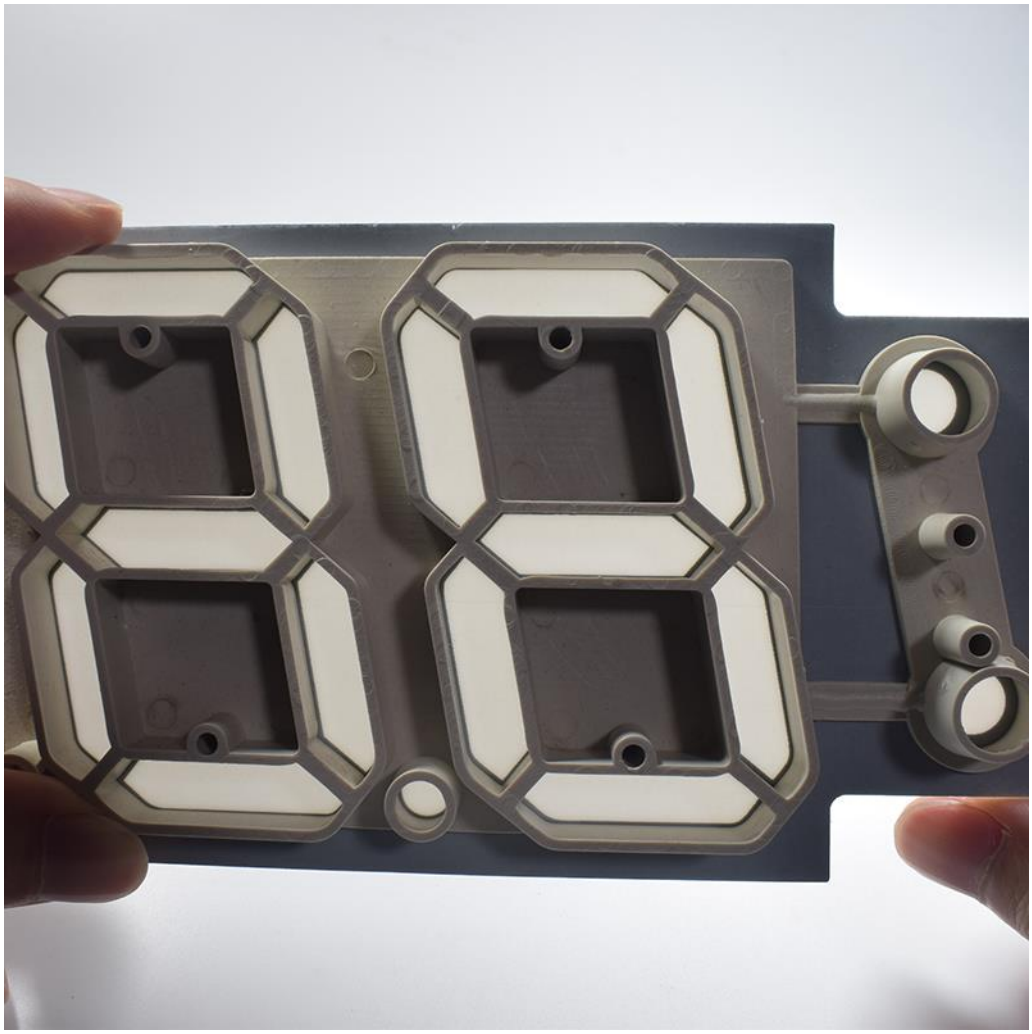
Then take out the digital tube with the clock point and the sticker.



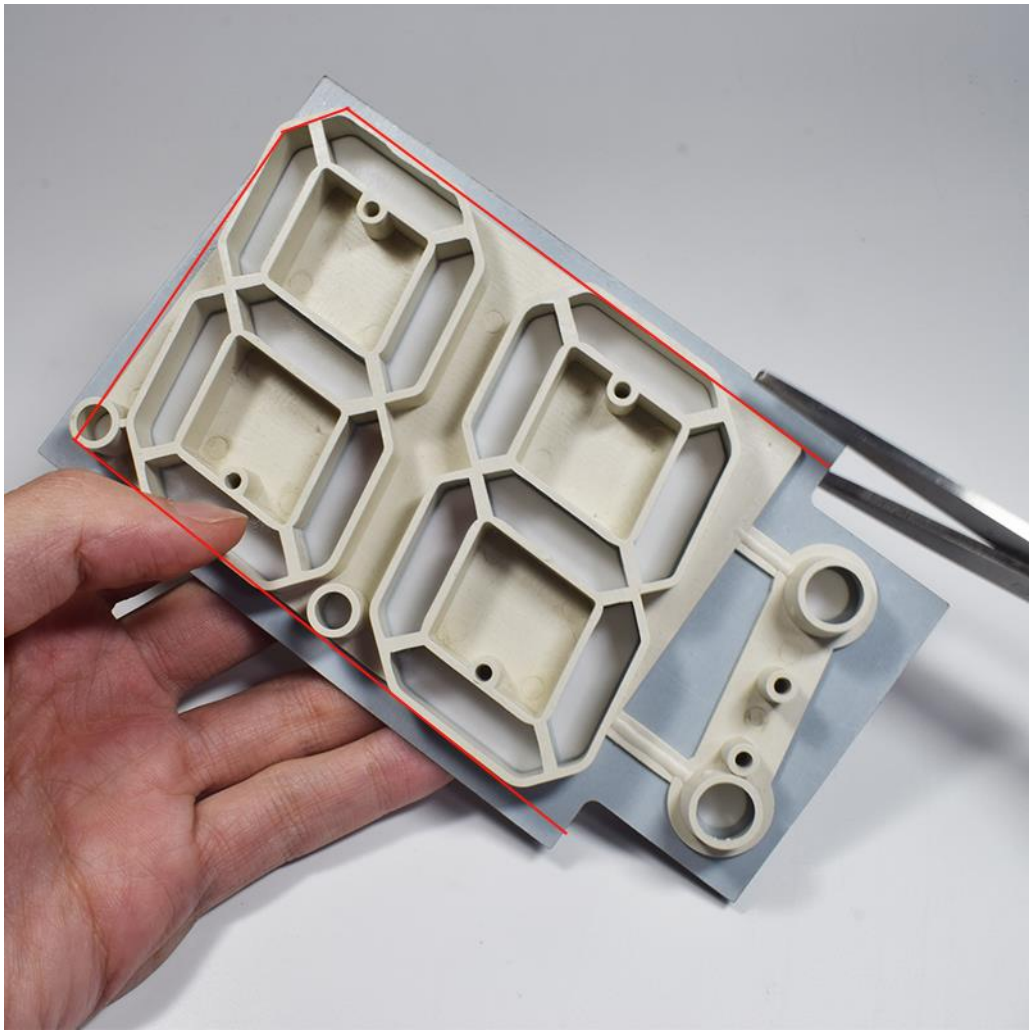
Peel off the bottom film.



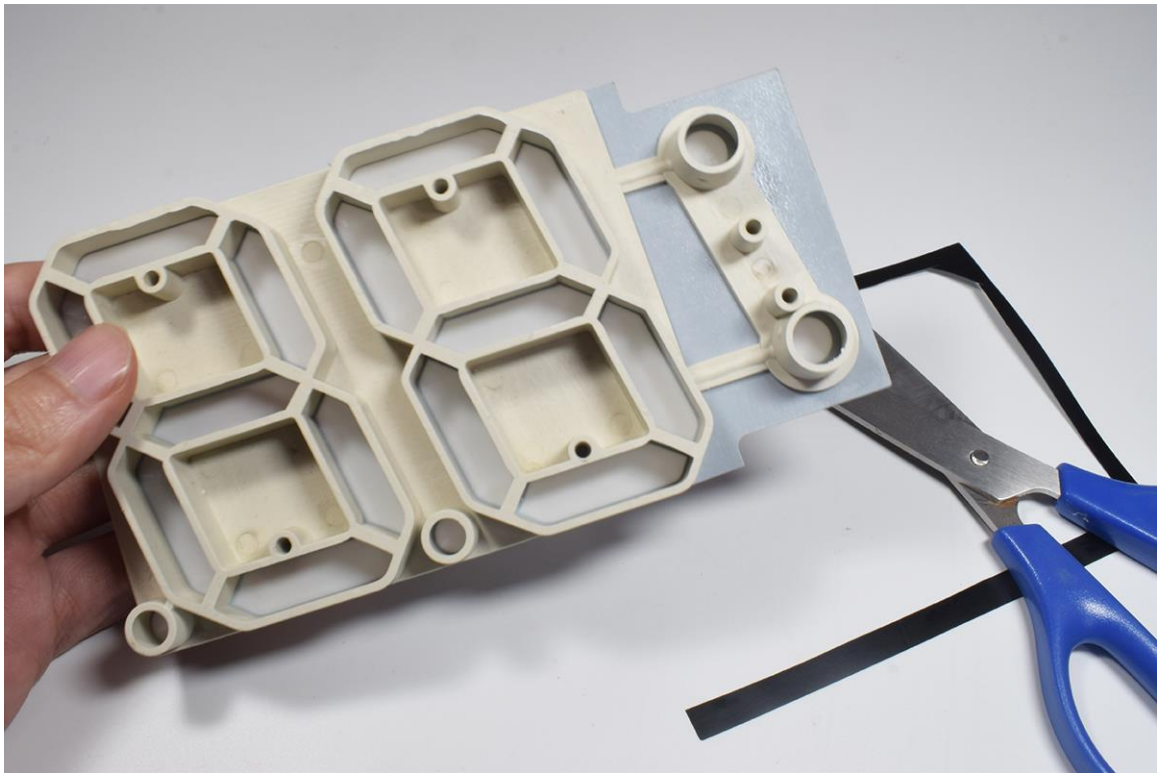
Similarly, attach the tube upside down to the sticker.



Check that the location is correct.

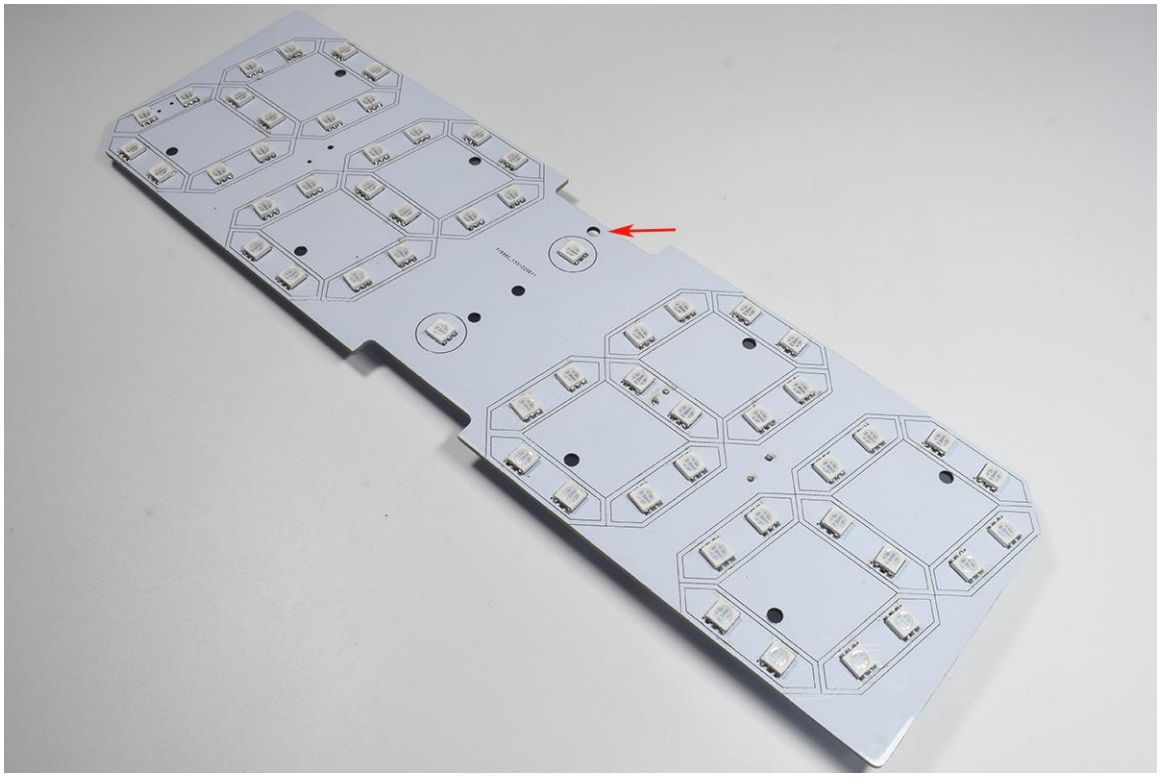


Similarly, cut off the excess along the red line (note: do not cut off other parts).

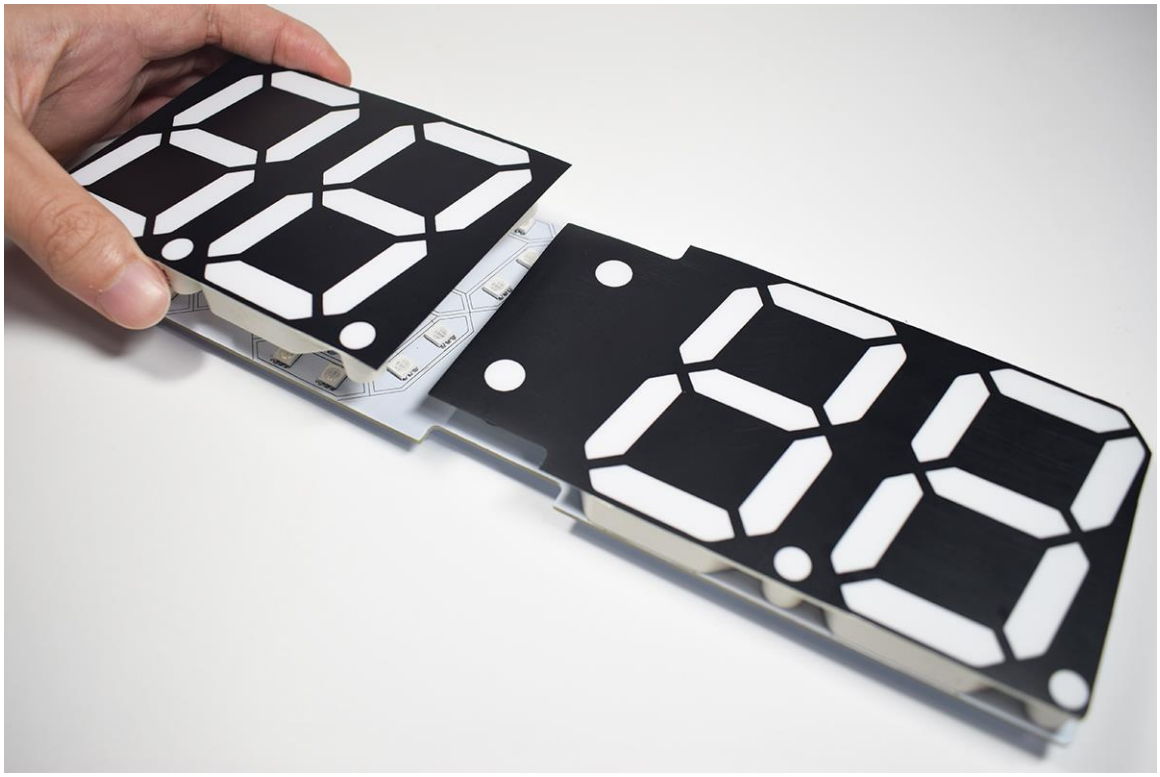


The look of the finish.

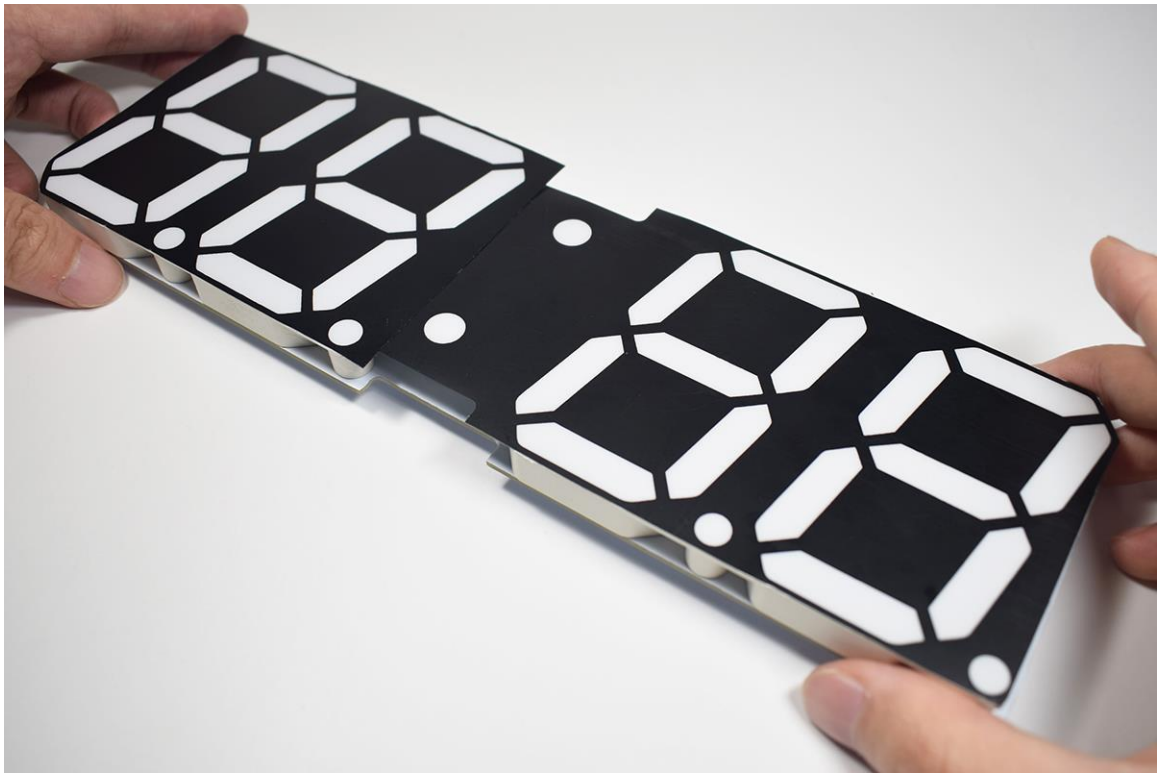
Front.



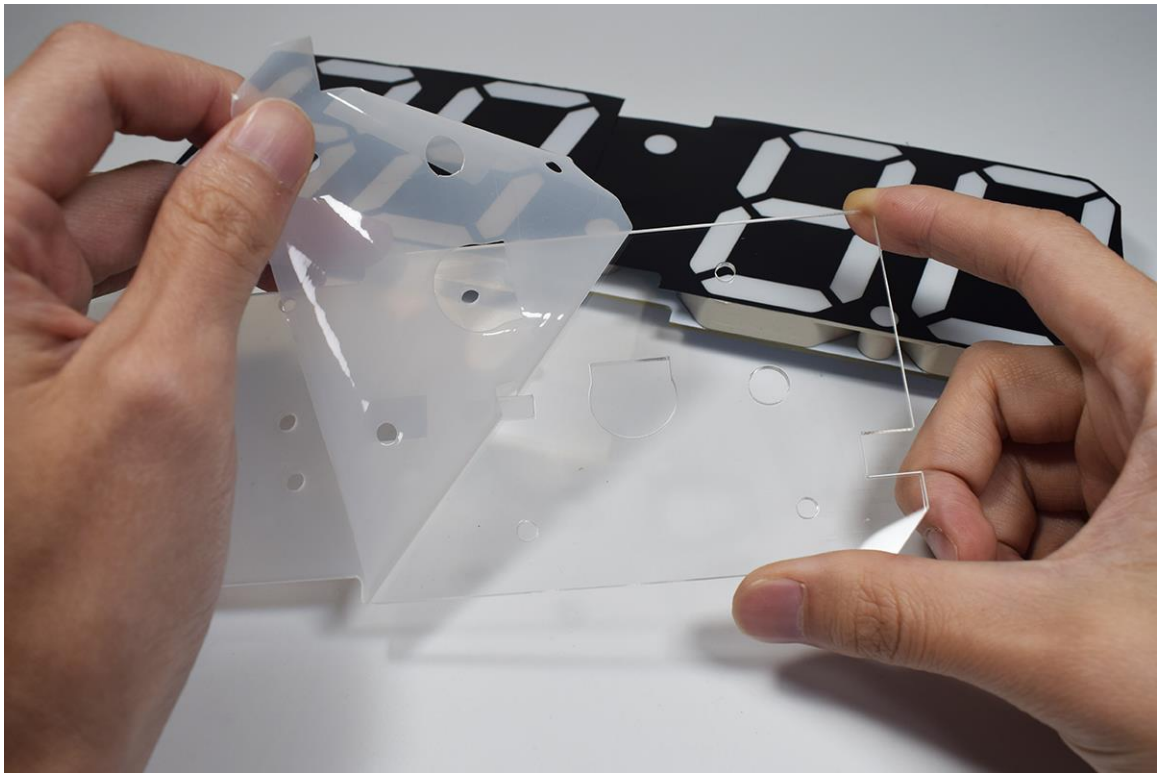
Take out the soldered circuit board and note that the dot indicated by the red arrow is above.



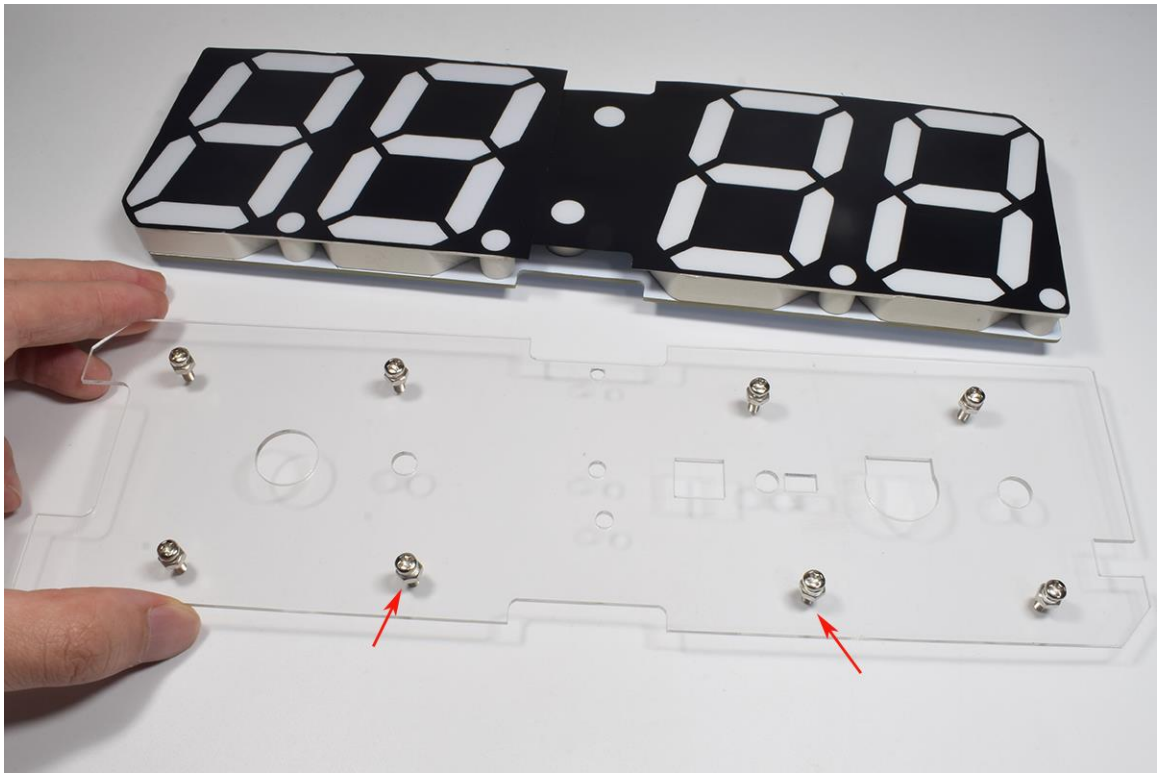
Place the digital tube with the clock point first (right), and then place the digital tube on the left.



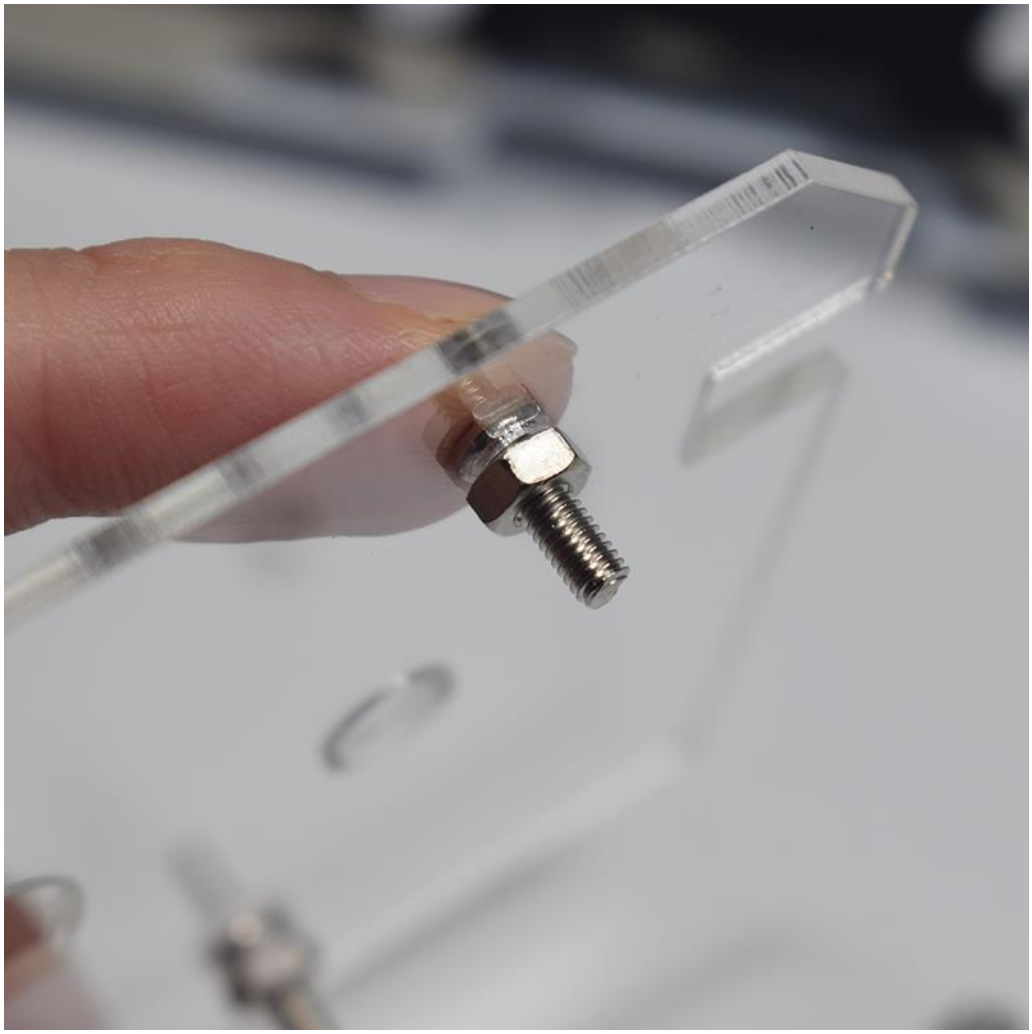
Corresponding to neatly arranged.



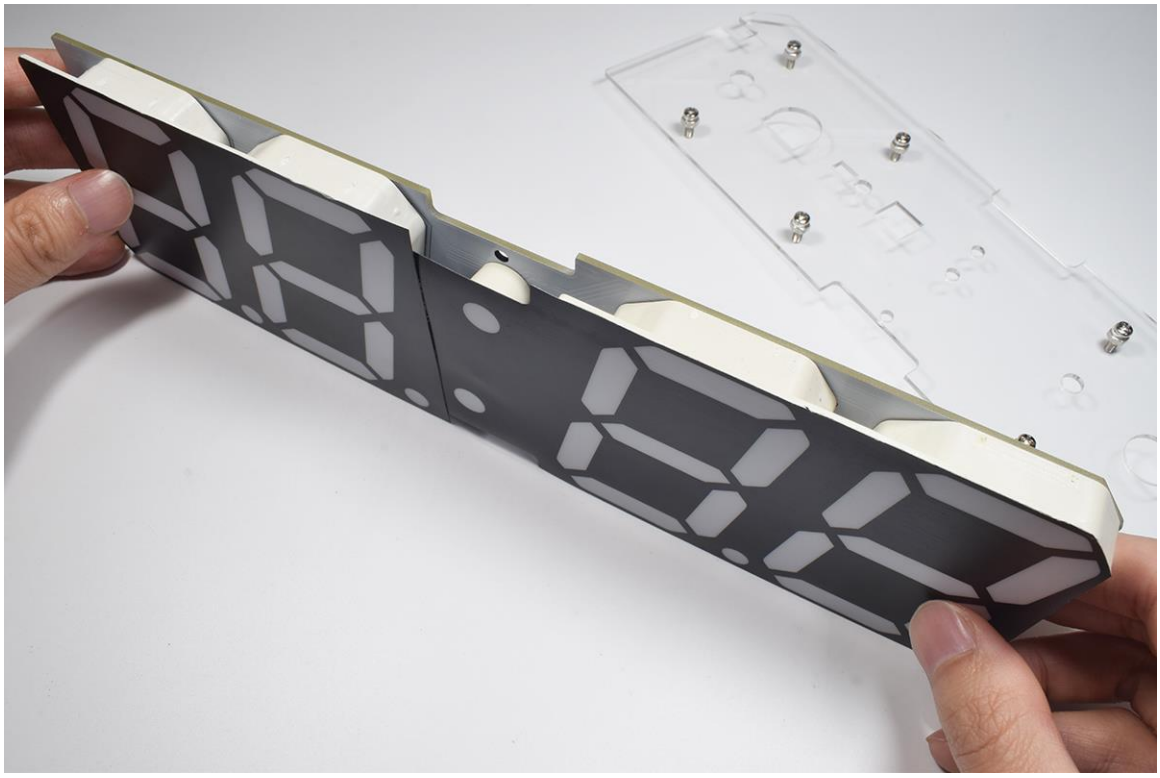
Tear off the film of the acrylic board.



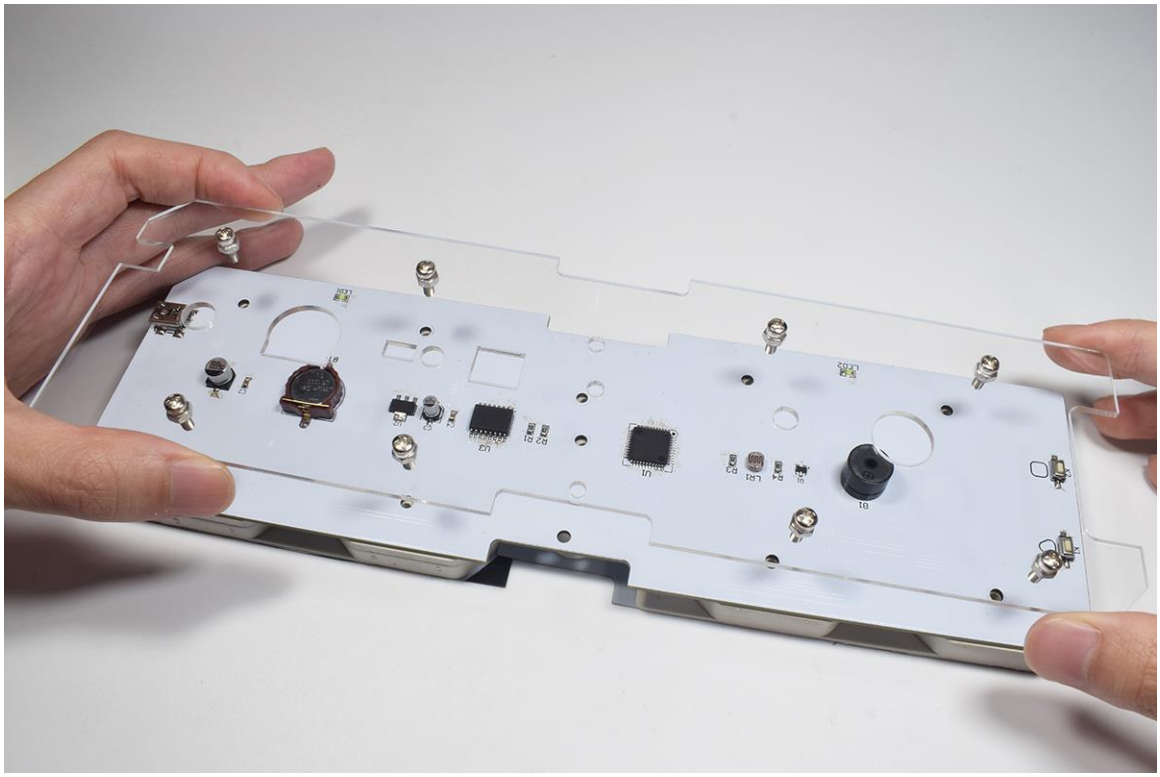
Screw the screws at the 8 vias on the figure, pay attention to the screws not to be reversed, and pay attention to the acrylic board to be placed as shown above, do not make a mistake.



Leave a little space for the nut (be careful not to tighten the nut).

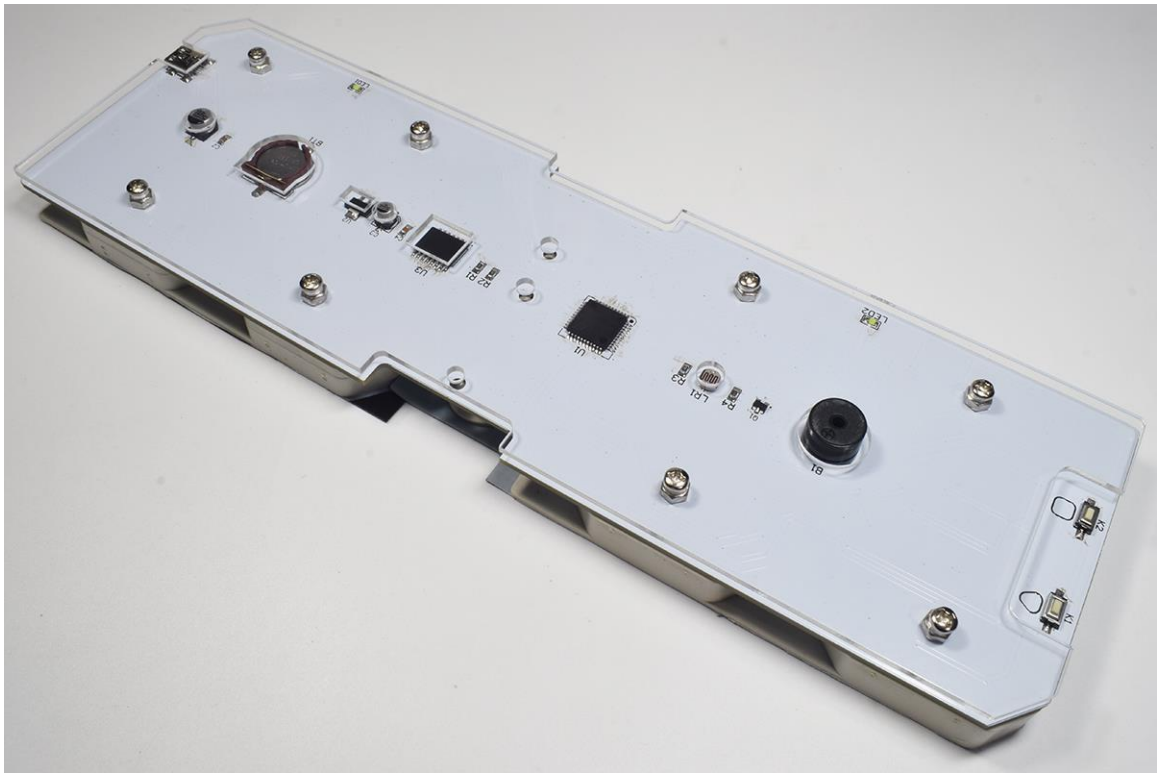


Press and hold the tube part and place it upside down on the tabletop.



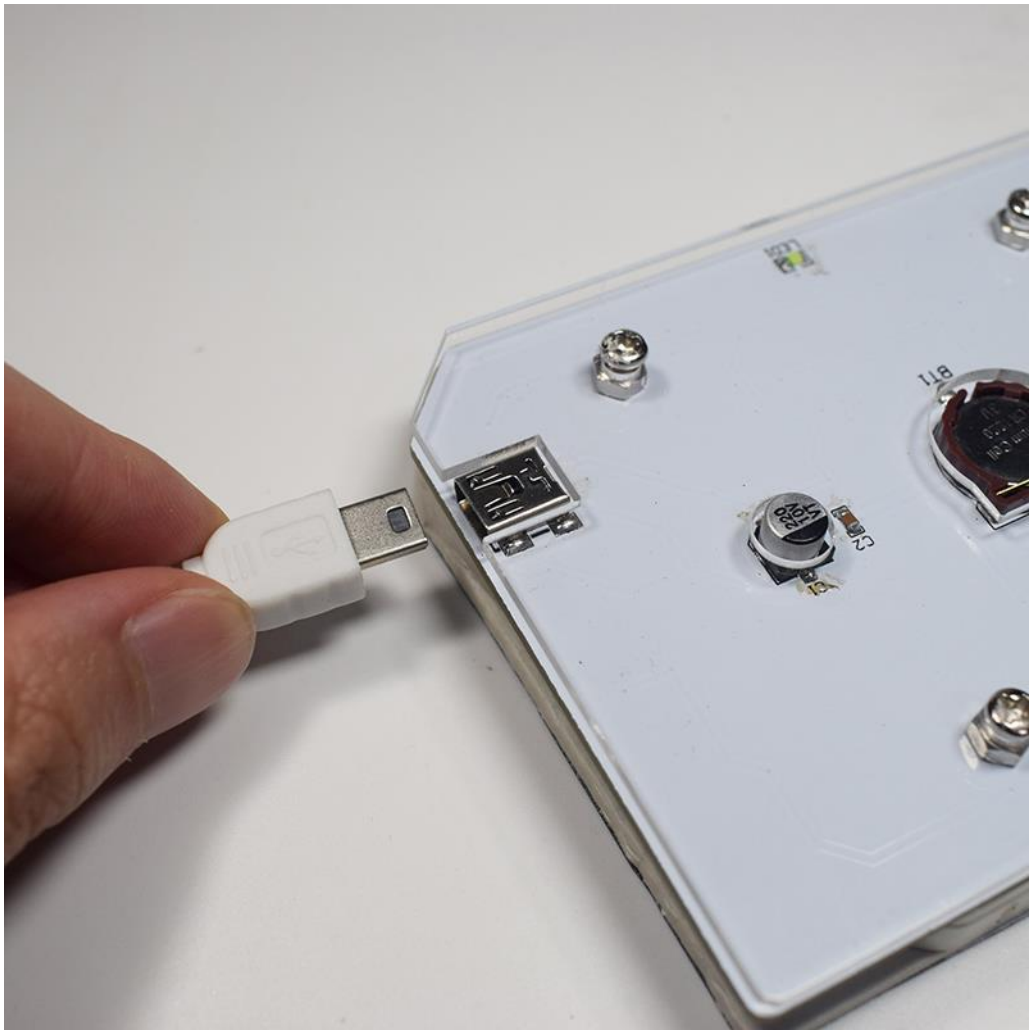
Align the 8 screws in the correct position, paying attention to the holes on the PCB board to expose the hole grooves of the digital tube.

Use a screwdriver to tighten the screw holes one by one, taking care not to tighten one screw at once, but to tighten 8 screws little by little.



The back of the finish.

Use a screwdriver to press the junction of the two stickers tightly.



Connect to a 5V DC power supply.

Works with power.