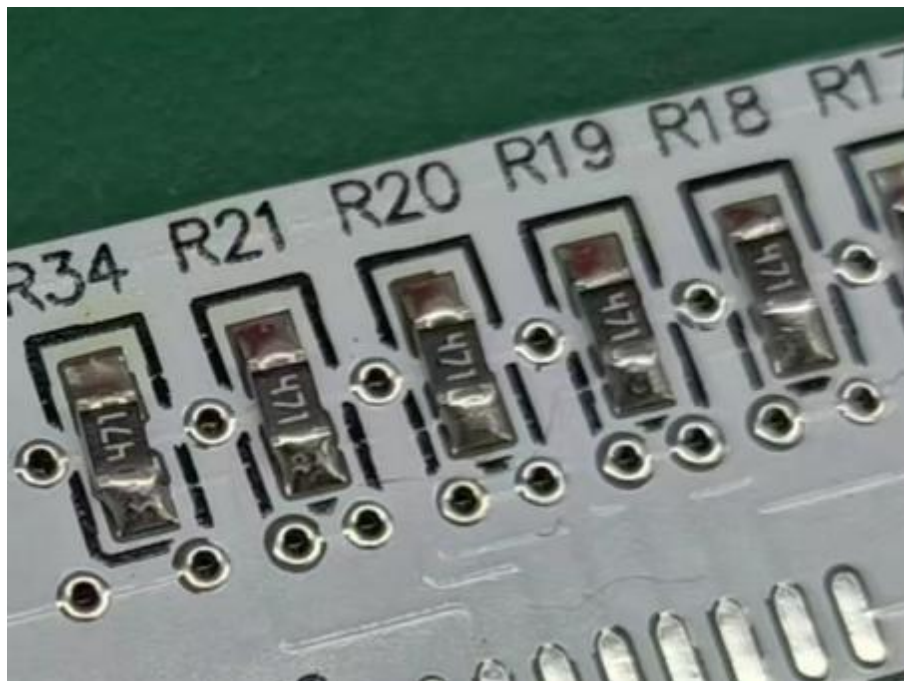


## LED Dot Matrix Clock Production Instructions (TJ-56-240)

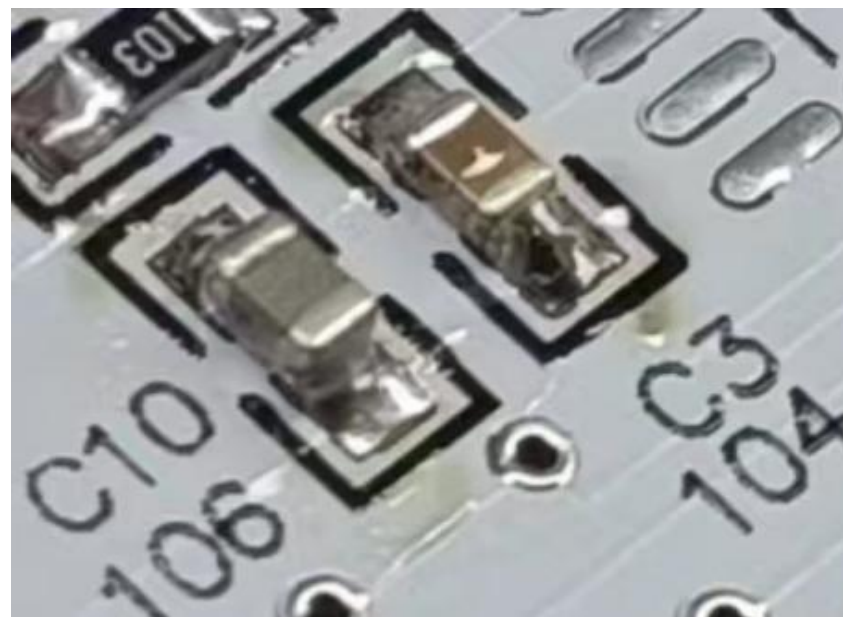
Power supply: 5V DC



### 0805 chip resistor: (No direction)

10K (103) R1、R2、R3

470R (471) R4----R35



### 0805 chip capacitor: (No direction)

104 C3---C9

6P C1、C2

106 C10

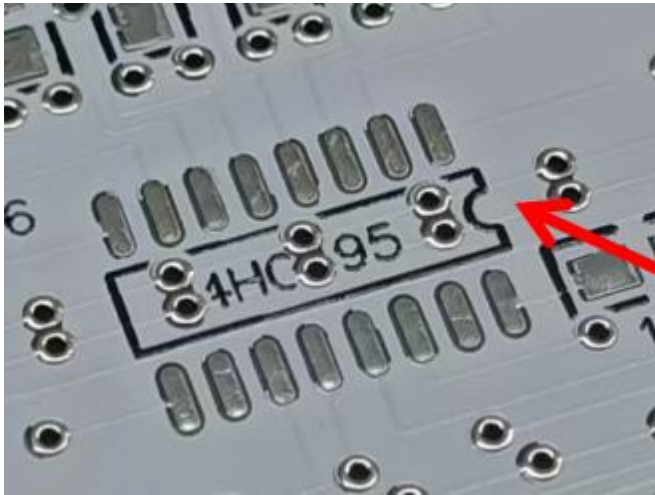


Figure 1

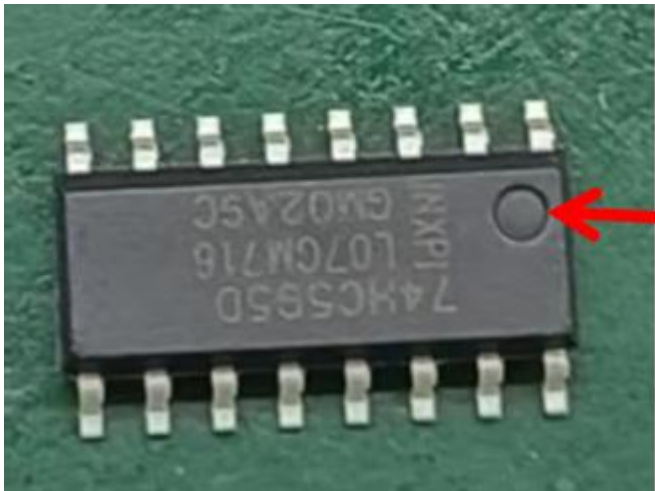
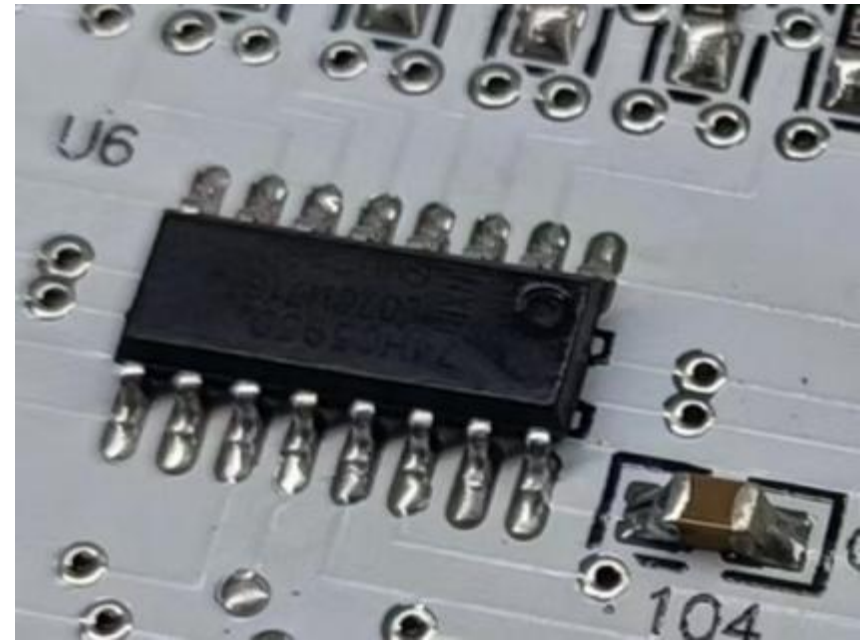


Figure 2



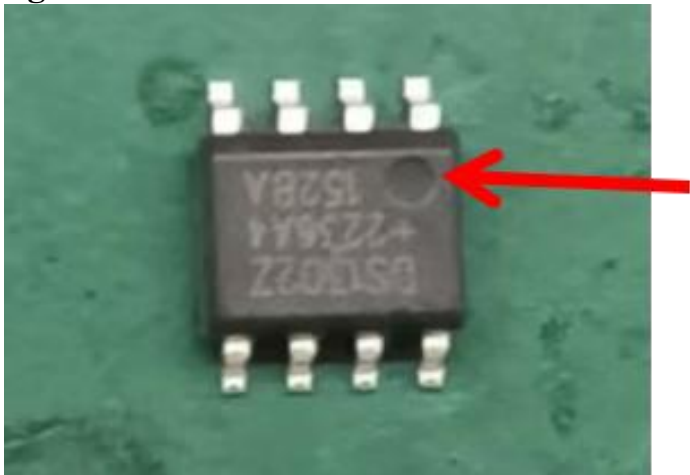
**Patch integrated chip : (with direction)**

74HC595D U4、U5、U6、U7、U8

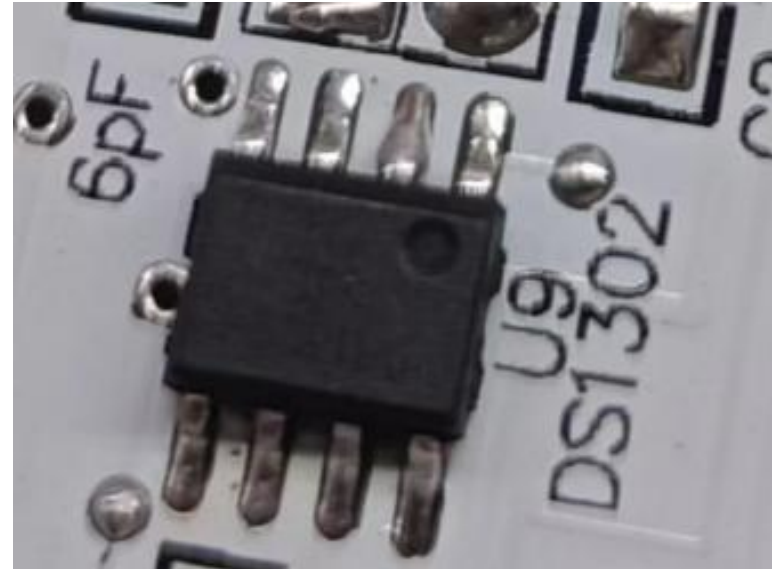
The position of the notch on the board in Figure 1 (arrow pointing) is in the same direction as the position of the dot on the chip in Figure 2 (arrow pointing).



**Figure 1**



**Figure 2**

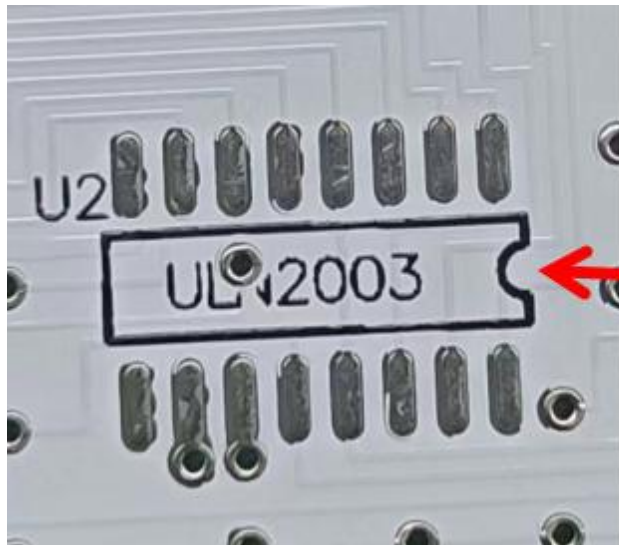


**Patch integrated chip : (with direction)**

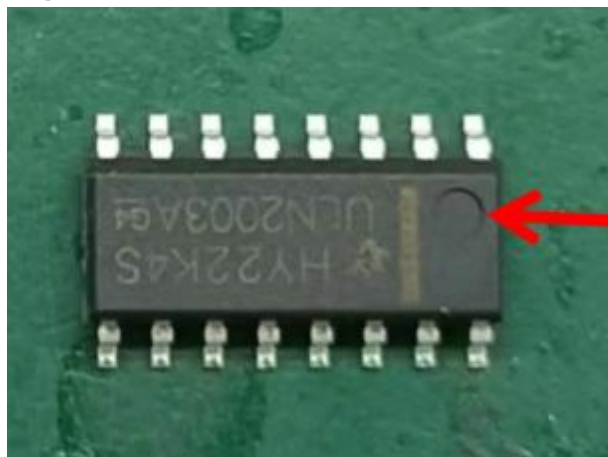
DS1302

U9

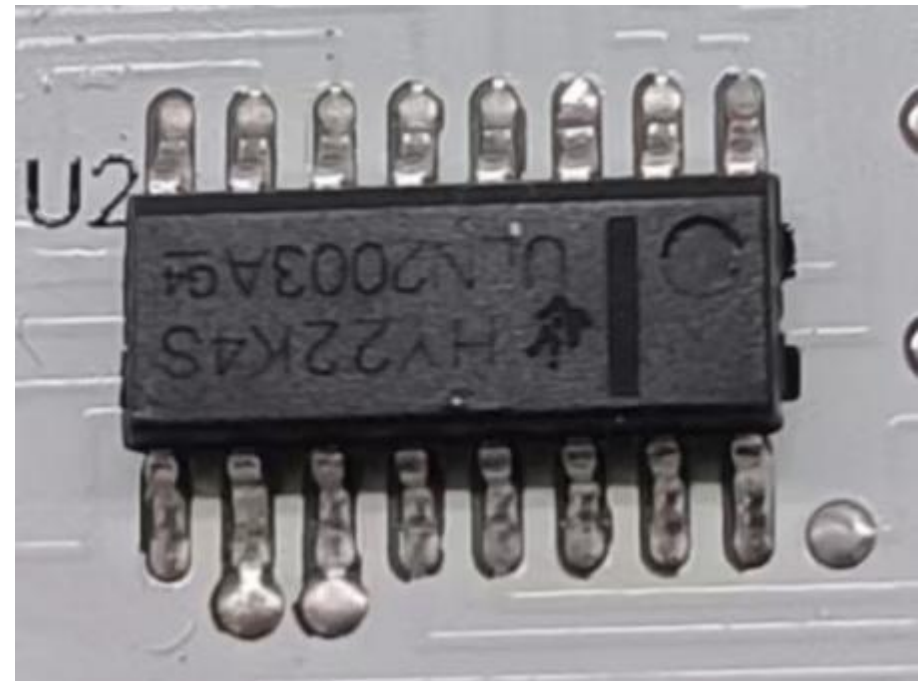
The position of the notch on the board in Figure 1 (arrow pointing) is in the same direction as the position of the dot on the chip in Figure 2 (arrow pointing).



**Figure 1**



**Figure 2**



**Patch integrated chip : (with direction)**

ULN2003                      U2、 U3

The position of the notch on the board in Figure 1 (arrow pointing) is in the same direction as the position of the dot on the chip in Figure 2 (arrow pointing).



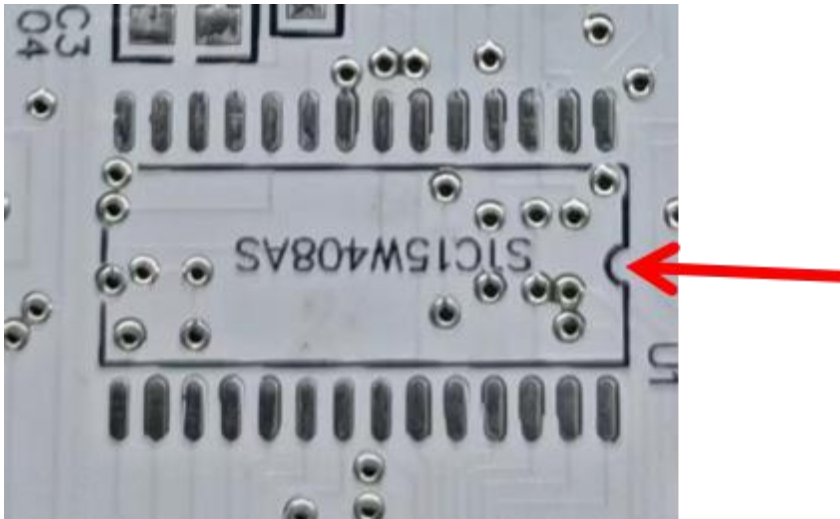


Figure 1



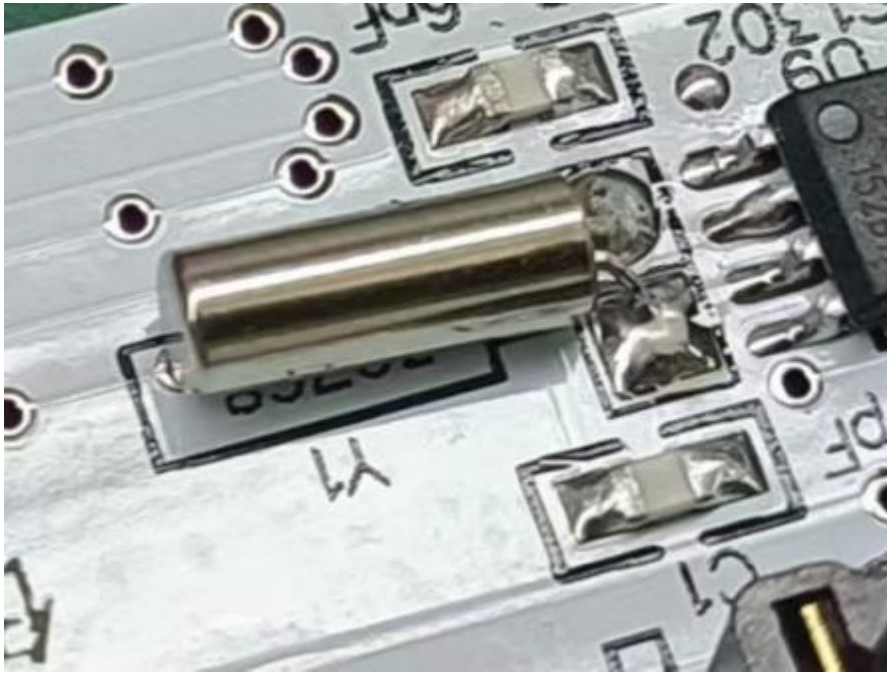
Figure 2

**Chip microcontroller : (with direction)**

STC15W408AS

U1

The position of the notch on the board in Figure 1 (arrow pointing) is in the same direction as the position of the dot on the chip in Figure 2 (arrow pointing).



**In-line crystal oscillator (no direction)**

Y1 32768Hz

Non-directional, welded in Y1 position

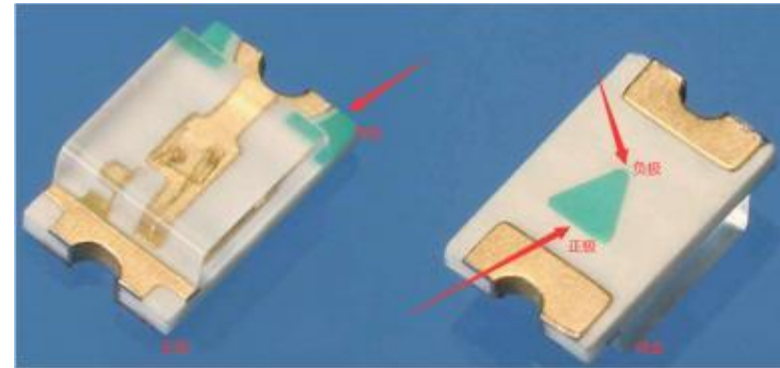


**Button battery holder: (with direction)**

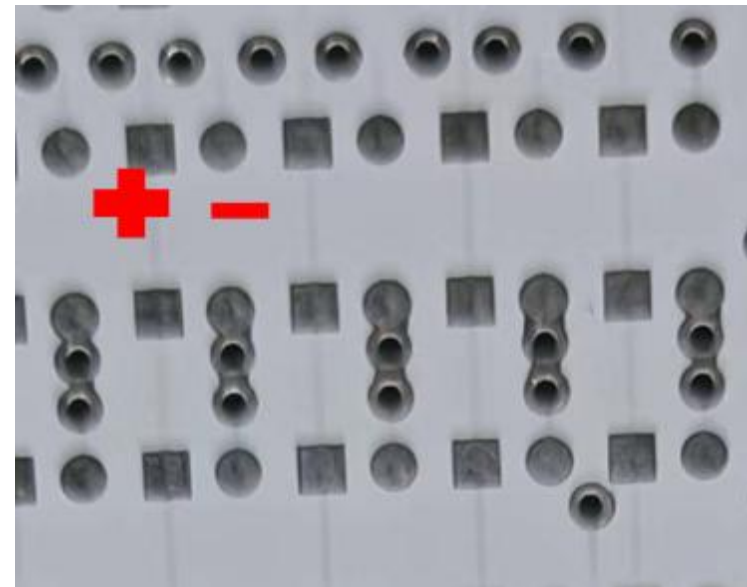
Button battery holder, corresponding to the graphic position of the circuit board for installation and welding.



**USB Power Supply: (with direction) : Figure 1**  
 Install and weld corresponding to the graphic position of the circuit board.

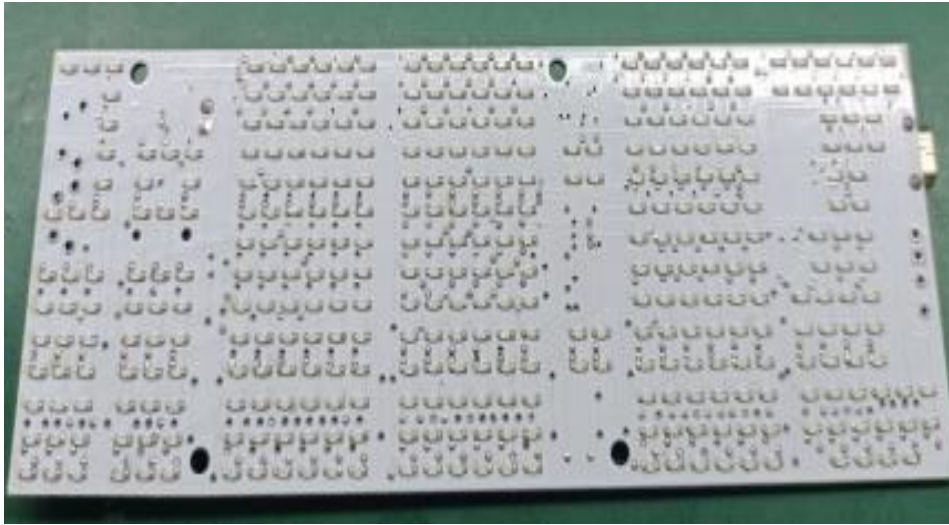


**Figure 1**



**Figure 2**





### 0603 SMD Light Emitting Diode:

**Figure 1:** shows the positive and negative identification of light-emitting diodes.

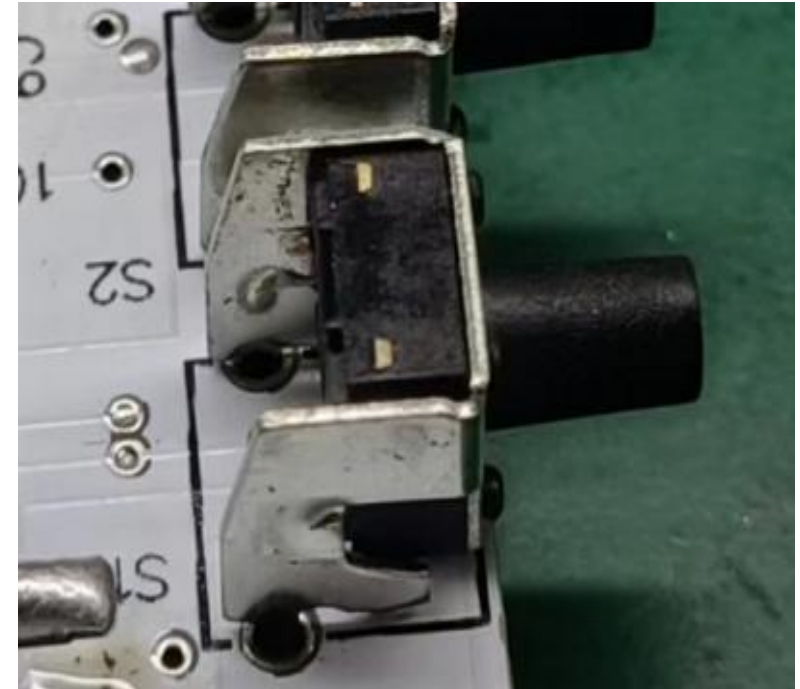
**Figure 2:**

Circuit board on the square pads on one end is positive.

Circular pads on the circuit board is the end of the negative pole.

Welded on the circuit board, pay attention to the circuit positive and negative.

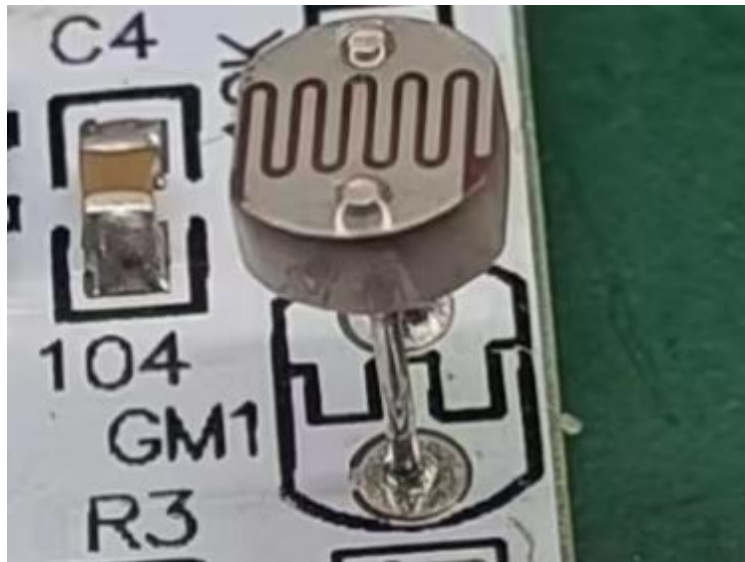
Do not weld too long, it is easy to burn the LEDs.



**Button:** S1 S2

The keys are welded to the circuit board and installed and welded according to the graphic position of the circuit board.

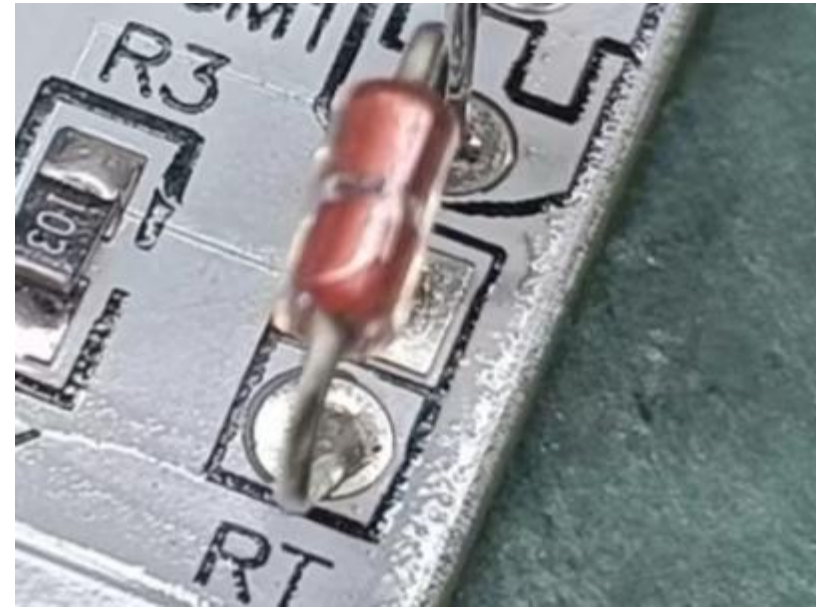




**Photoresistor: (no direction)**

GM1

The photoresistor is soldered to the circuit board, and the mounting is done at the graphic position of the circuit board, leaving a certain height when soldering.



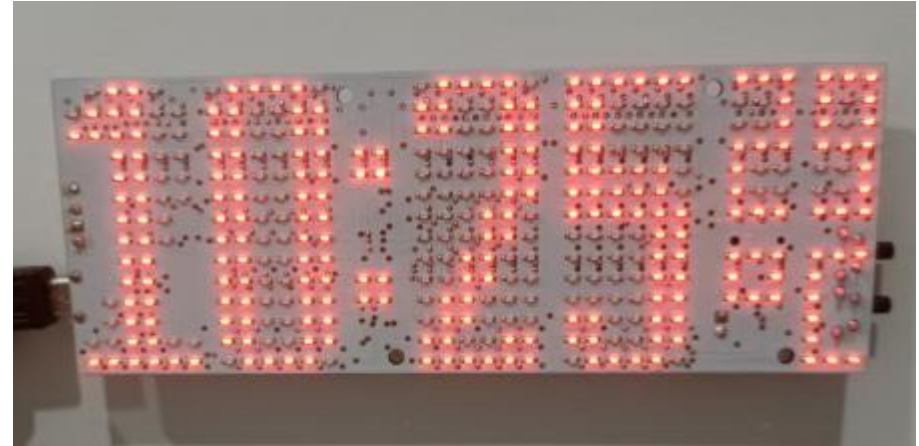
**Thermistor: (no direction)**

RT

The thermistor is soldered to the circuit board and is mounted at the graphic position of the board, leaving a certain height when soldering.

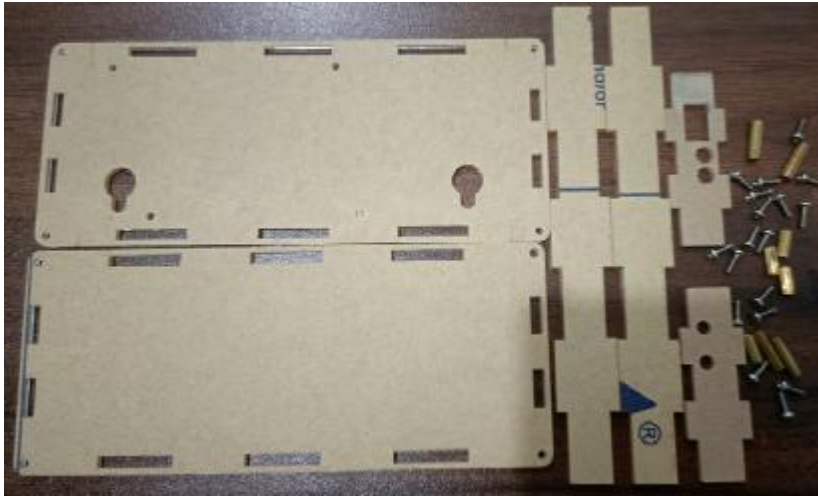
**Button battery:**

The smooth side of the button battery is the positive electrode, which is mounted on the button battery holder (positive electrode facing up).



**Installation complete**

# Housing Installation



**Start housing installation**



**There is a protective film on the surface of the shell.  
Remove the protective film.**



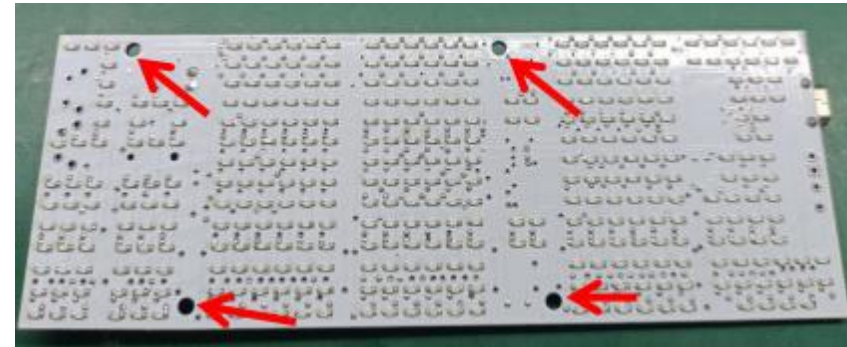
**Find the bottom housing.**



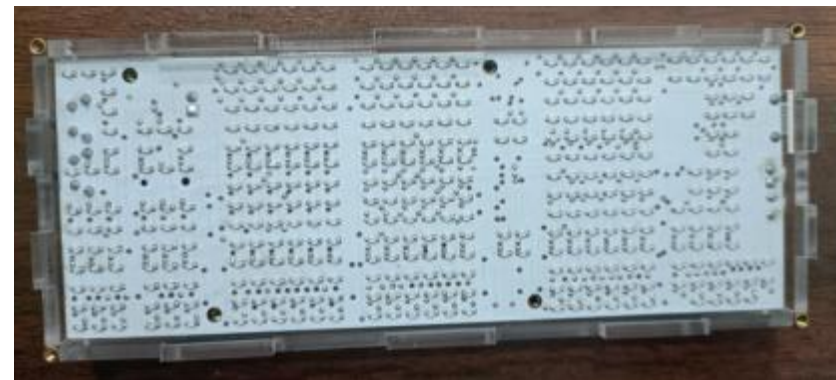
**Install the screws and shorter double-threaded copper posts in the four round holes in the bottom housing, and install the screws and longer double-threaded copper posts in the surrounding holes.**



**Partial Installation Diagram**

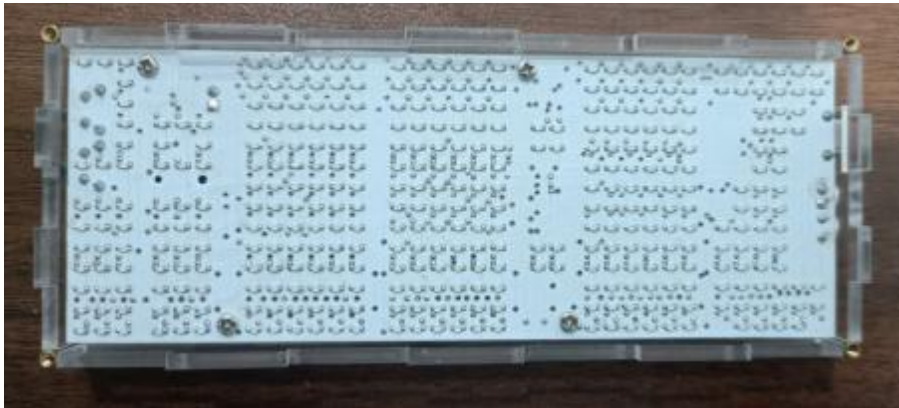


**Install the four positioning holes on the circuit board corresponding to the four double-threaded copper posts mounted on the bottom housing.**

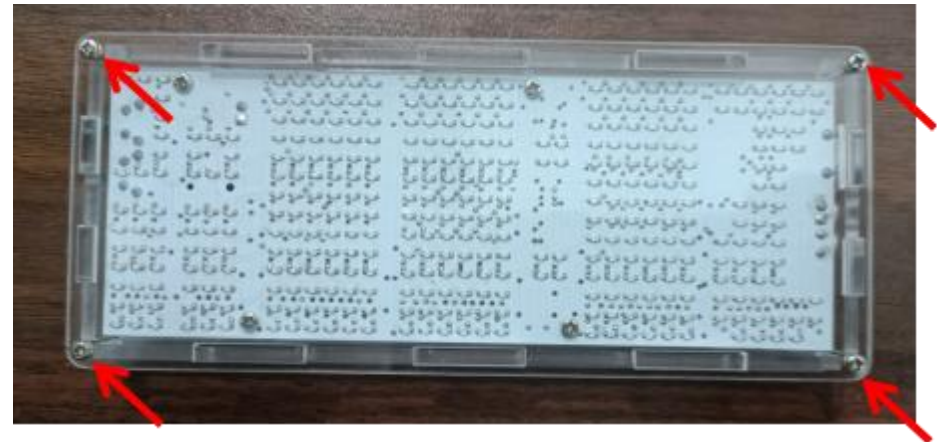


**After putting it in place, install the surrounding shell first, otherwise the circuit board cannot be installed after fixing the surrounding shell.**





**Install screws to secure the circuit board.**



**After the top shell is secured, the shell is installed.**



**Install the top housing.**