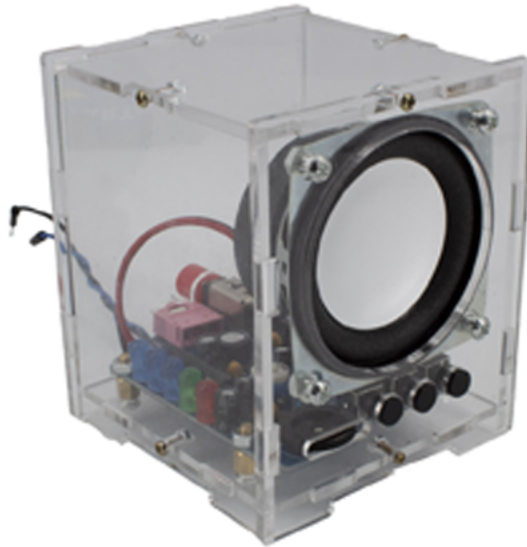


# 1. Product welding assembly results



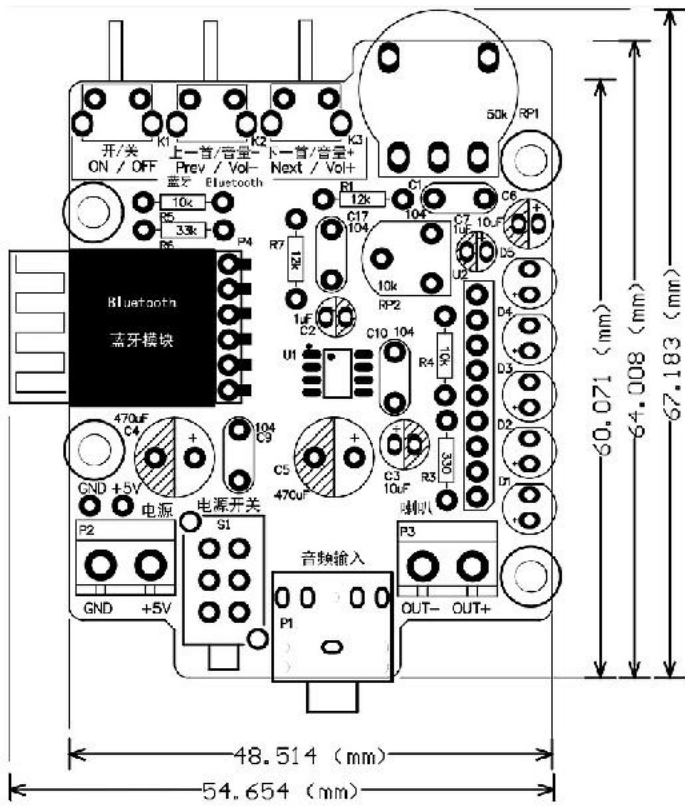
# 2. Component list

	Name	Label	Number	Note
1	104 monolithic capacitor	C1, C9, C10, C17	4	No polarity
2	DIP E-capacitor 1uF	C2, C7	2	Pin length: long + and short -
3	DIP E-capacitor 10uF	C3, C6	2	
4	DIP E-capacitor 470uF	C4, C5	2	
5	5mm Red DIP LED	D5	1	
6	5mm Green DIP LED	D4	1	
7	5mm Blue DIP LED	D3 D2 D1	3	
8	Horizontal side key switch	K1, K2, K3	3	
9	Black button cap	K1, K2, K3	3	
10	3.5mm audio socket	P1	1	
11	M18 Bluetooth audio module	P4	1	
12	DIP resistor 12K	R1, R7	2	No polarity
13	DIP resistor 330Ω	R3	1	
14	DIP resistor 10K	R4, R5	2	
15	DIP resistor 33K	R6	1	
16	Dial potentiometer 50k (503)	RP1	1	
17	Blue&white potentiometer 10K (103)	RP2	1	
18	Horizontal self-locking switch	S1	1	
19	Red self-locking switch cap	S1	1	
20	HT6872 SMD audio power amplifier chip	U1	1	
21	KA2284 LED level driver chip	U2	1	
22	4Ω3W audio speaker + wire		1	
23	Single head USB power cord		1	
24	Double head audio cable		1	
25	PCB		1	
26	Shell&screw bag		1	Optional
	Manual		1	



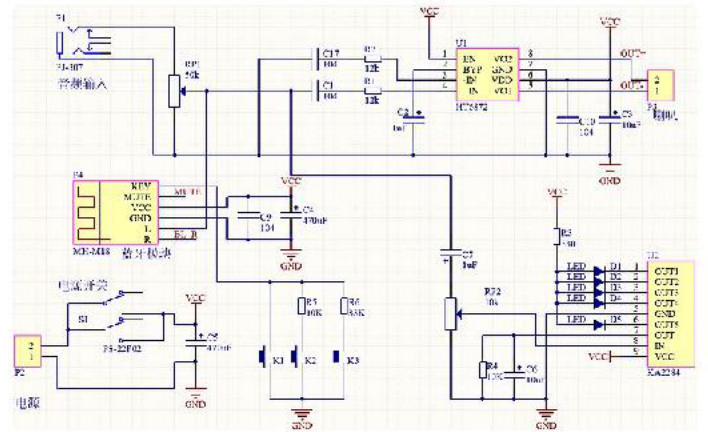
3.

### Component distribution diagram



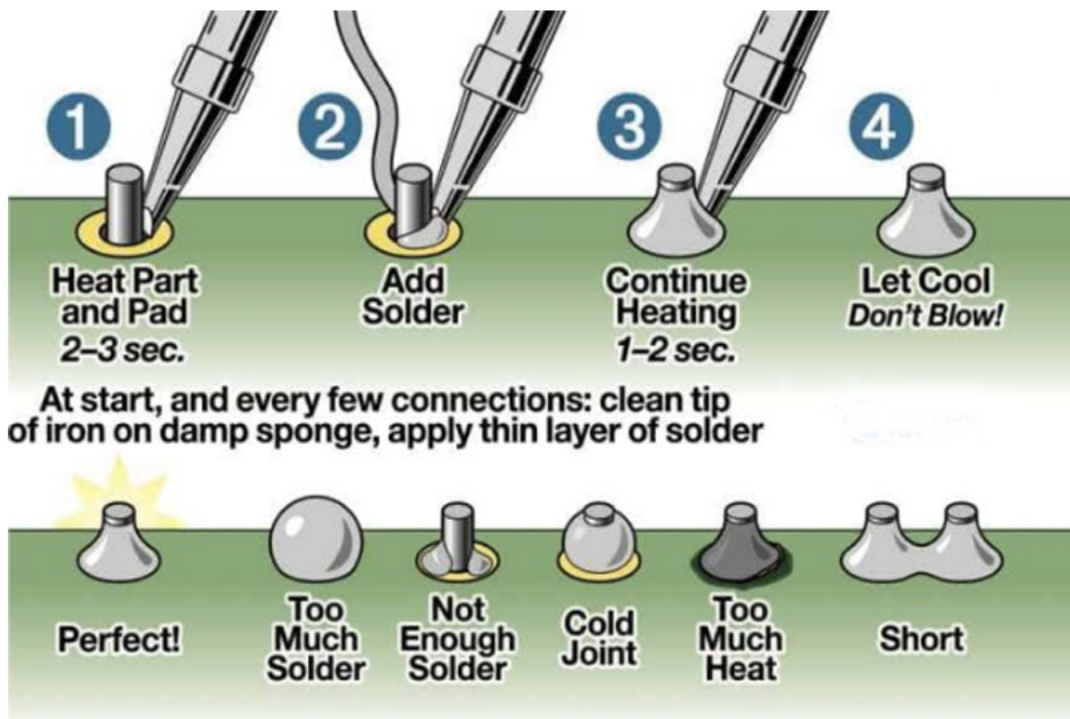
4.

### Schematic



5.

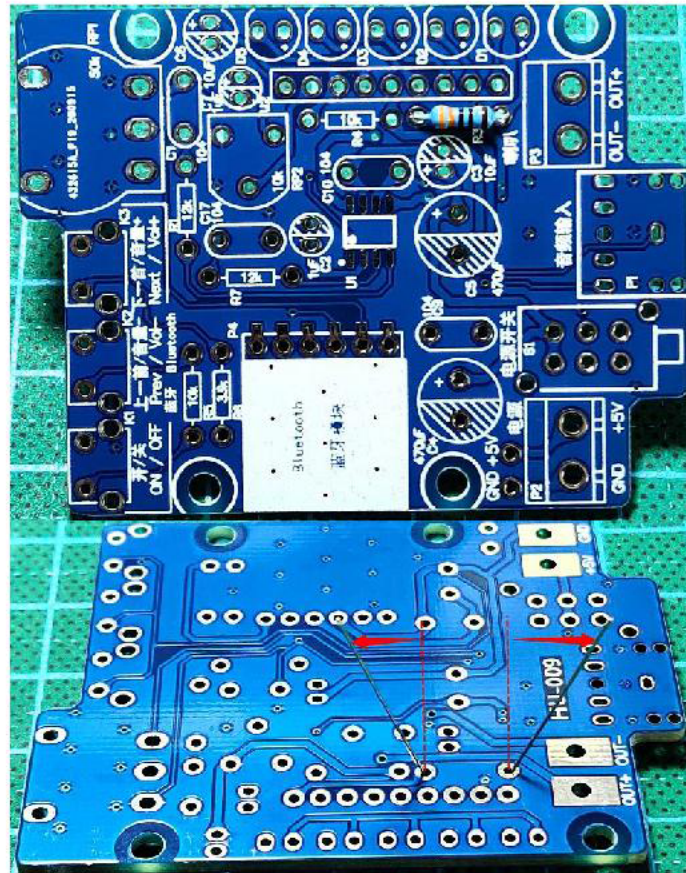
### Welding method



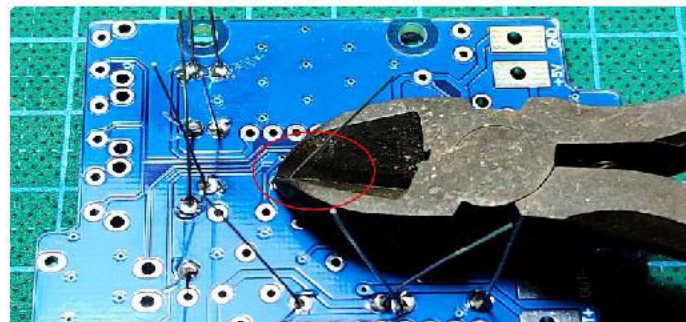
## 6.

### PCB Welding procedure details

When soldering components, please pay attention to the silk-screen information on the circuit board, and the corresponding soldering is enough. The lead-inserted component can be folded outwards for flipping soldering, as shown in the following figure.

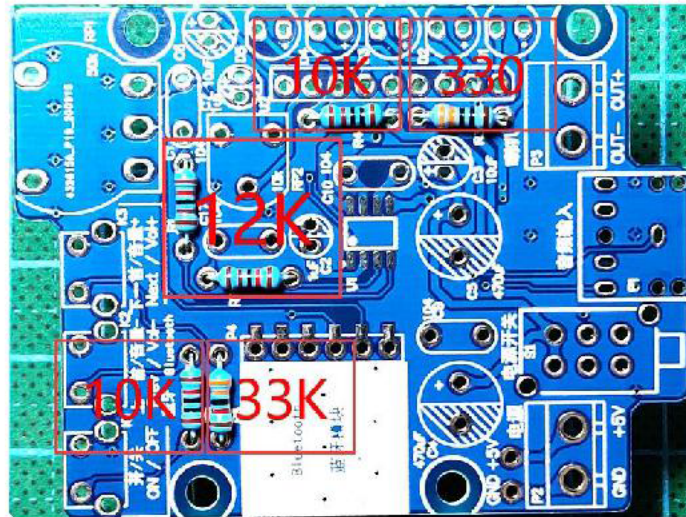


After soldering, cut off the excess pins with diagonal pliers.



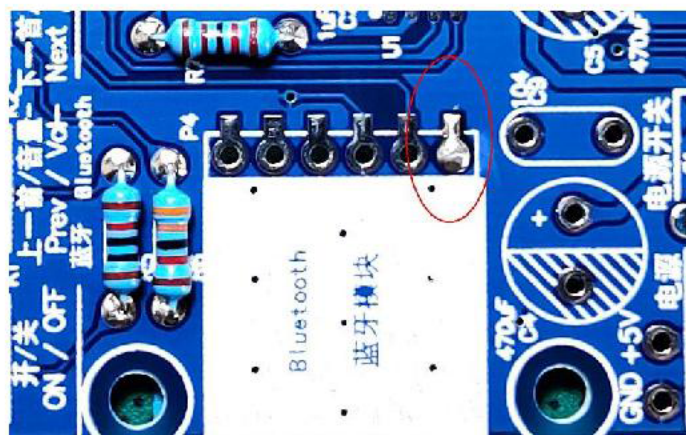
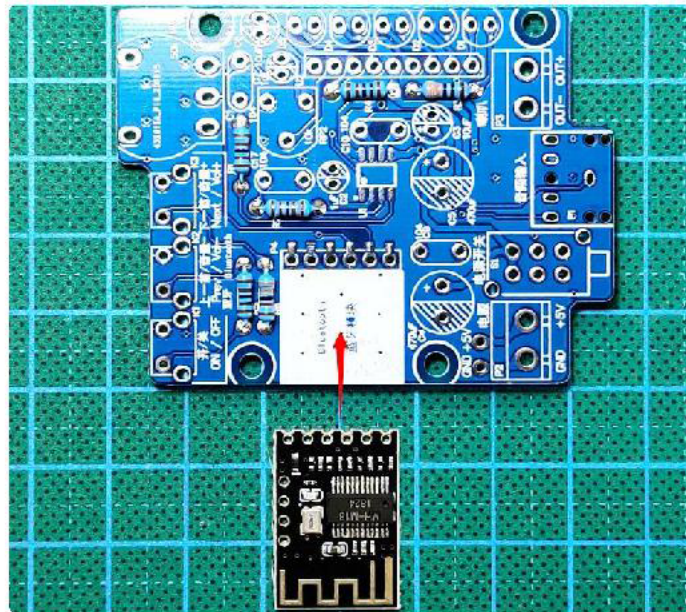
1.

The component welding sequence is from low to high, starting with the lower resistance (the resistance has no polarity), pay attention to the resistance value corresponding to the silk screen mark for welding.



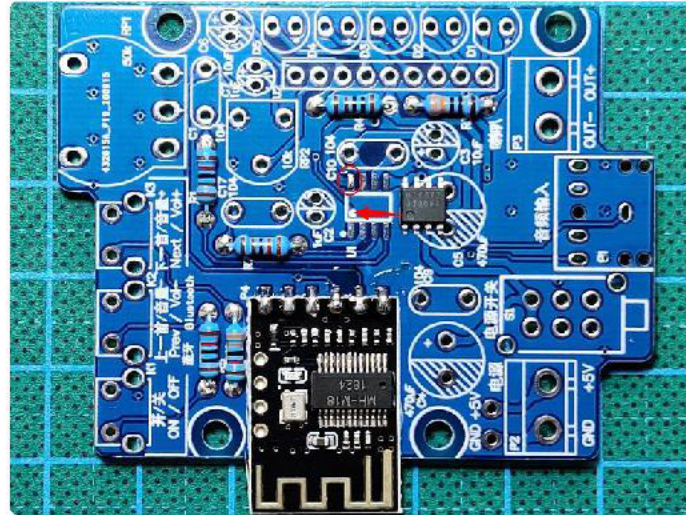
2.

Soldering the M18 Bluetooth audio module, as shown in the following figure, solder the patch component first on one of the pads on the circuit board, and then clamp the patch component for welding.



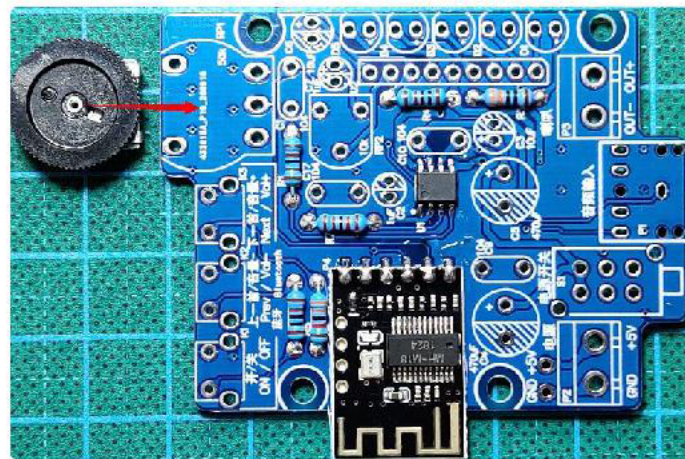
3.

Solder the HT6872 audio power amplifier chip, pay attention to the chip dots corresponding to the silk screen pattern, as shown in the figure below.



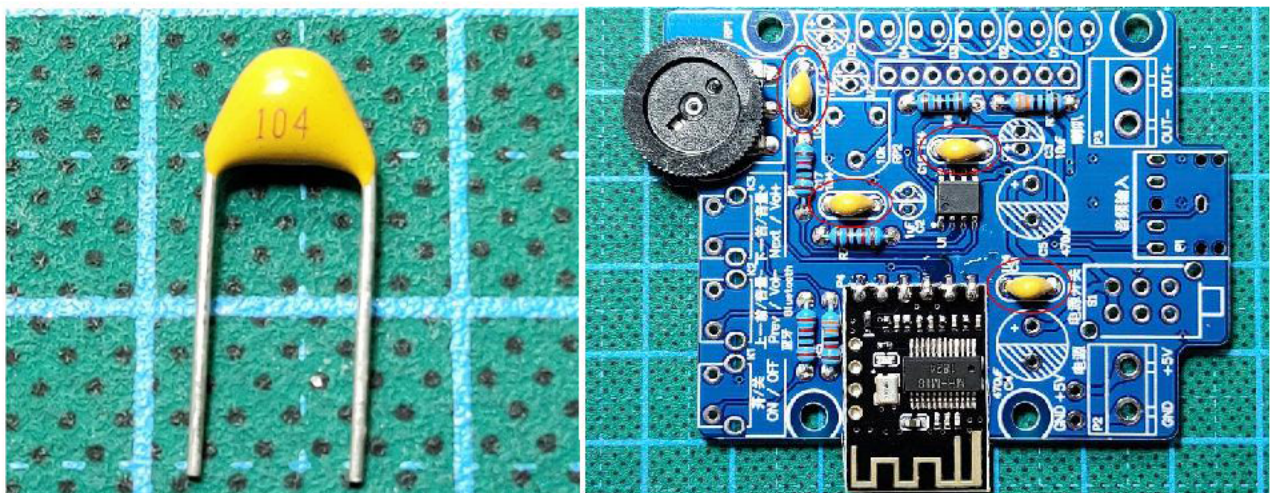
4.

Weld the dial potentiometer 50K (103), as shown in the figure below.



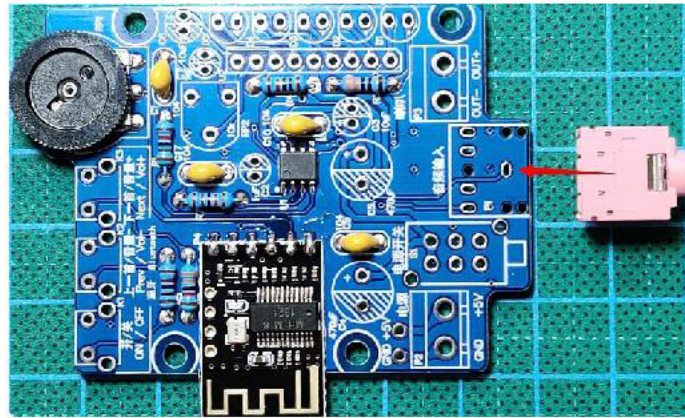
5.

Solder 104 monolithic capacitors(No polarity) as shown in the figure below.



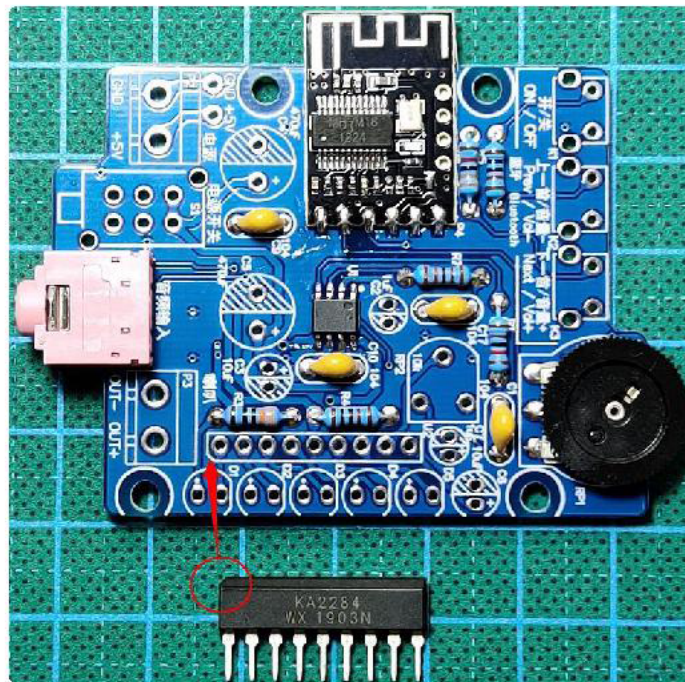
6.

Solder the 3.5mm audio socket as shown in the figure below.



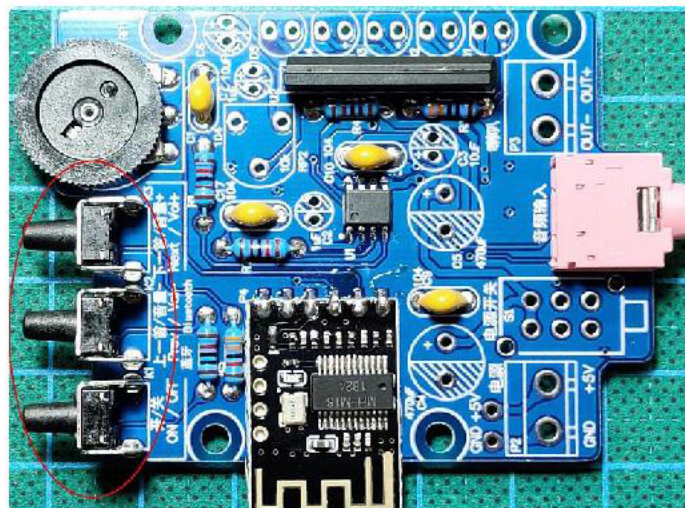
7. Soldering the

KA2284 level driver chip, pay attention to the chip's missing corner corresponding to the silk screen pattern, as shown in the figure below.



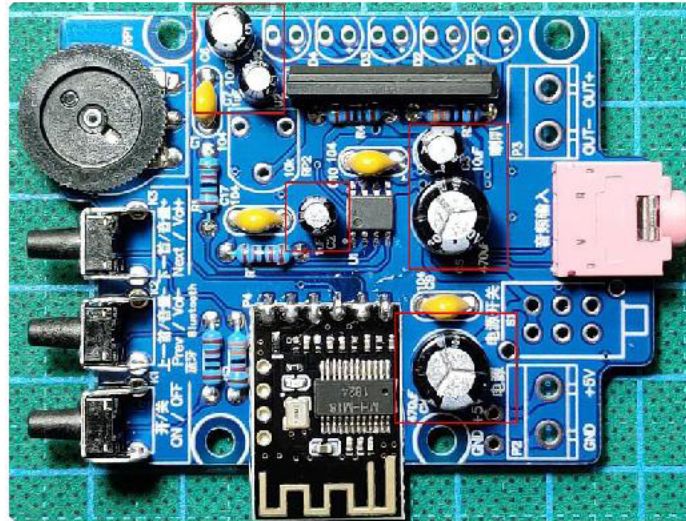
8.

Weld the horizontal side button, as shown in the figure below.



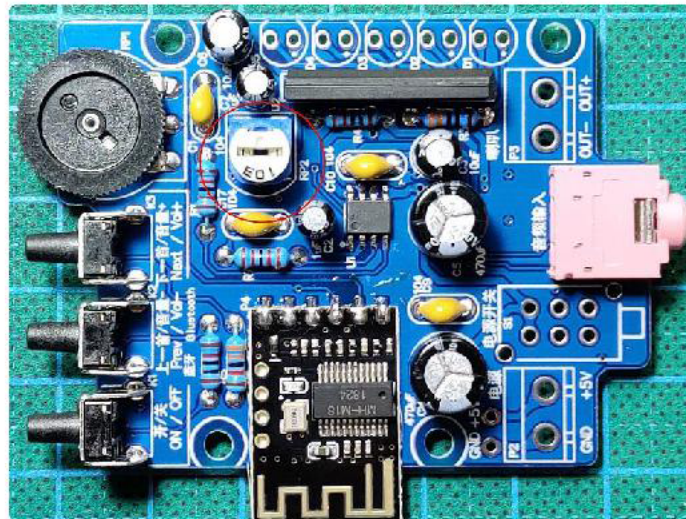
9.

Soldering 1uF, 10uF, 470uF in-line electrolytic capacitors(Pin length is positive and short is negative), pay attention to the capacitance value marked on the corresponding silk screen, as shown in the figure below.



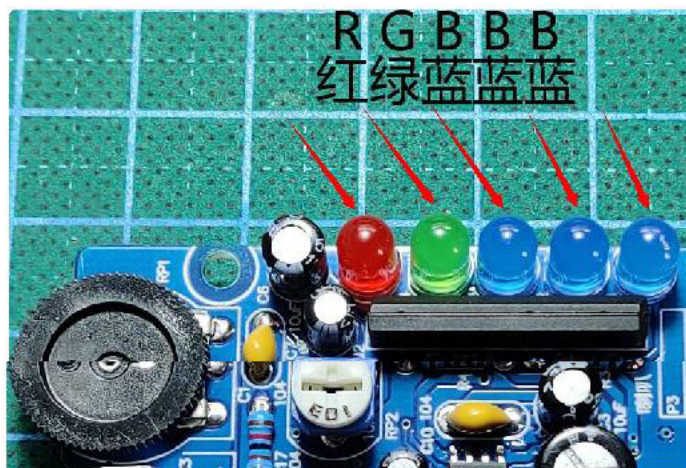
10.

Solder the blue and white potentiometer 10K (103) as shown in the figure below.



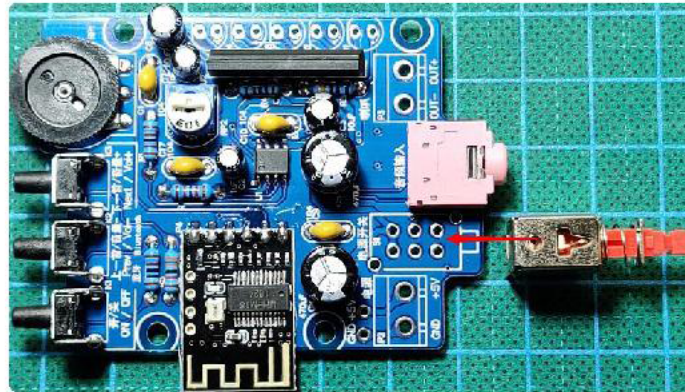
11.

Solder the LED lamp beads in the color sequence as shown in the figure below.



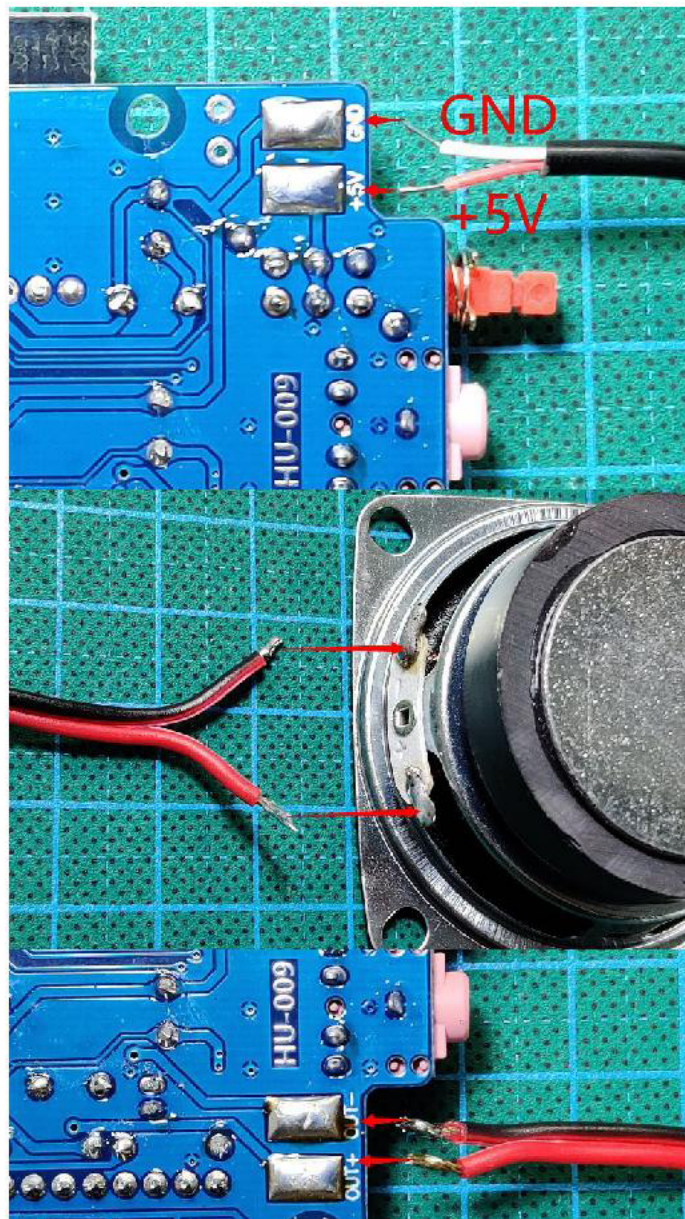
12.

Welding horizontal self-locking switch, as shown in the figure below.



13.

USB





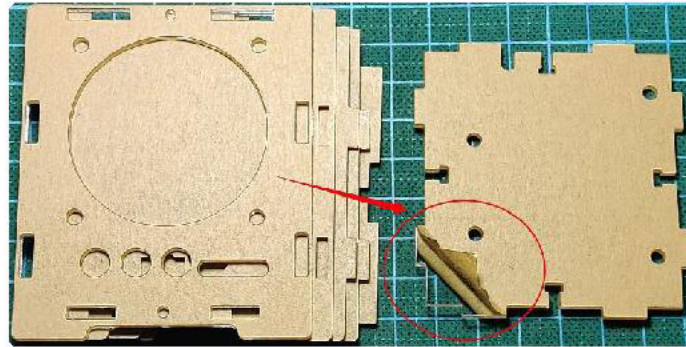
## 7.

### Shell installation instructions

**Before installing the shell, please power on (DC5V) to test the audio function to ensure that the welding is correct.**

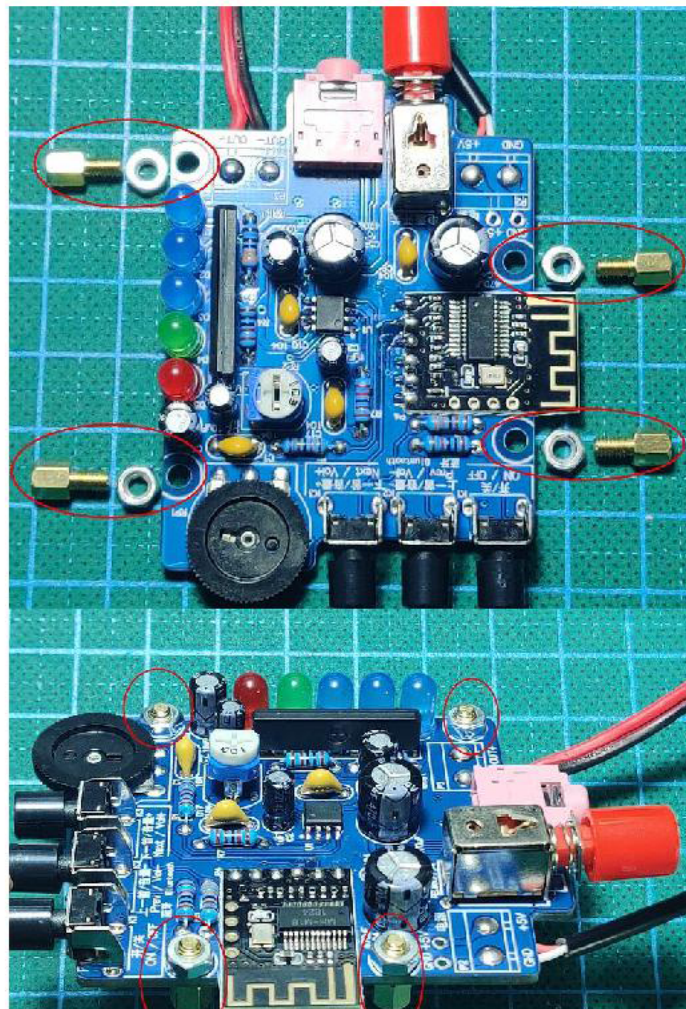
#### 1.

Tear off the protective film on both sides of the acrylic shell.

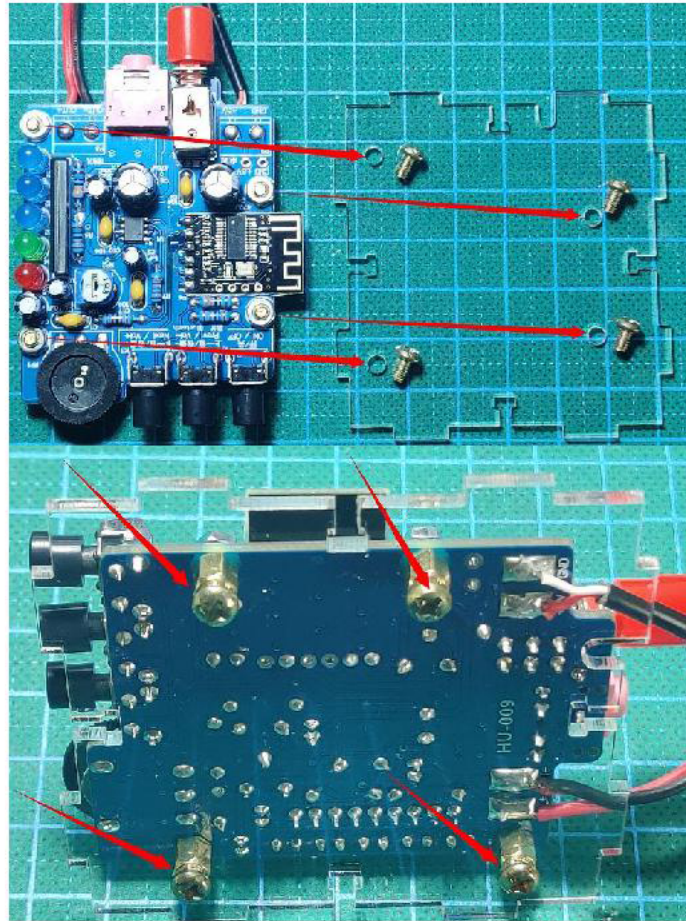


#### 2.

Fix the circuit board with M3 copper posts and nuts, as shown in the figure below.

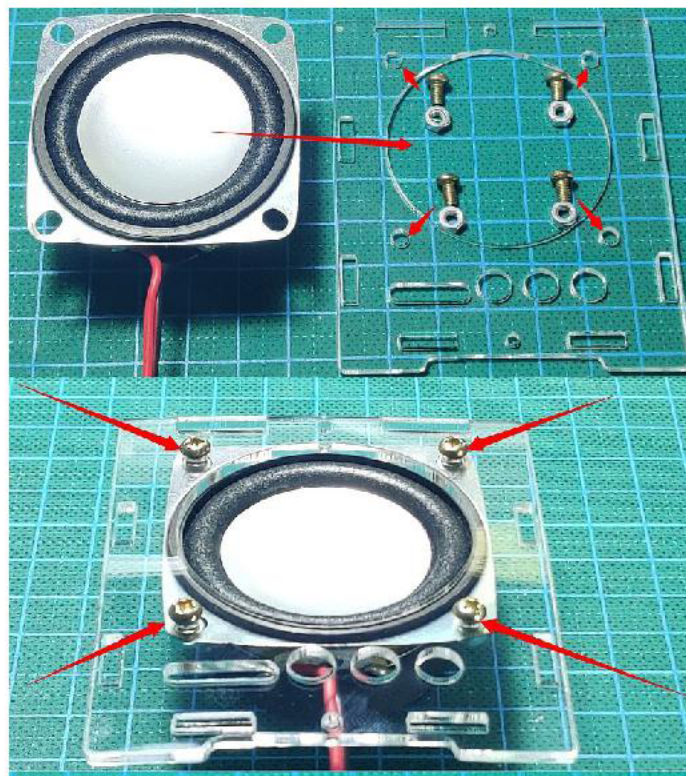


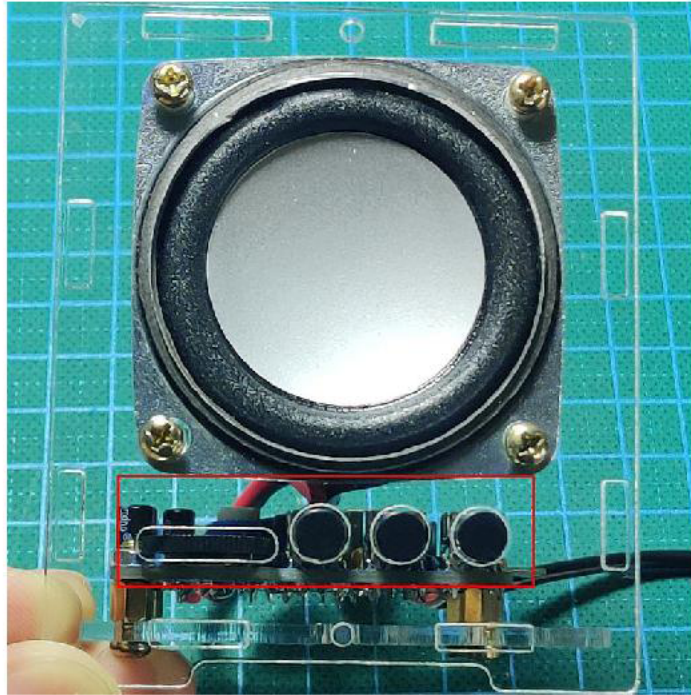
3.



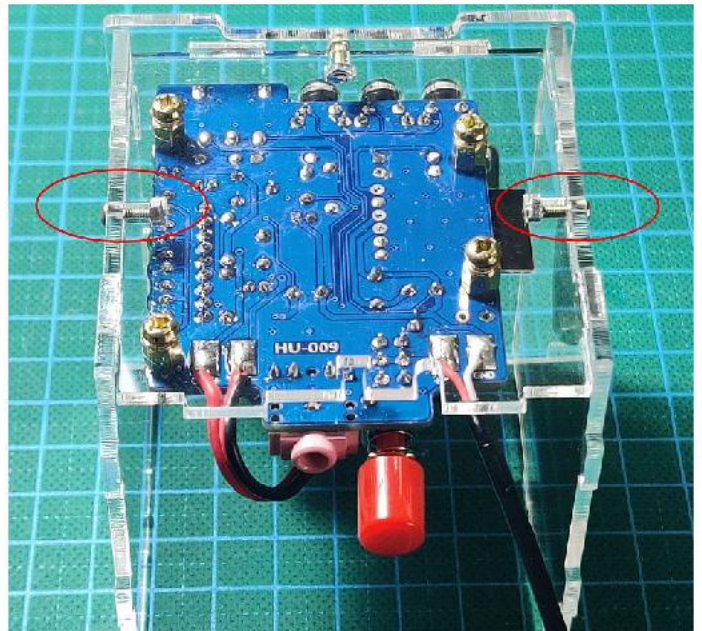
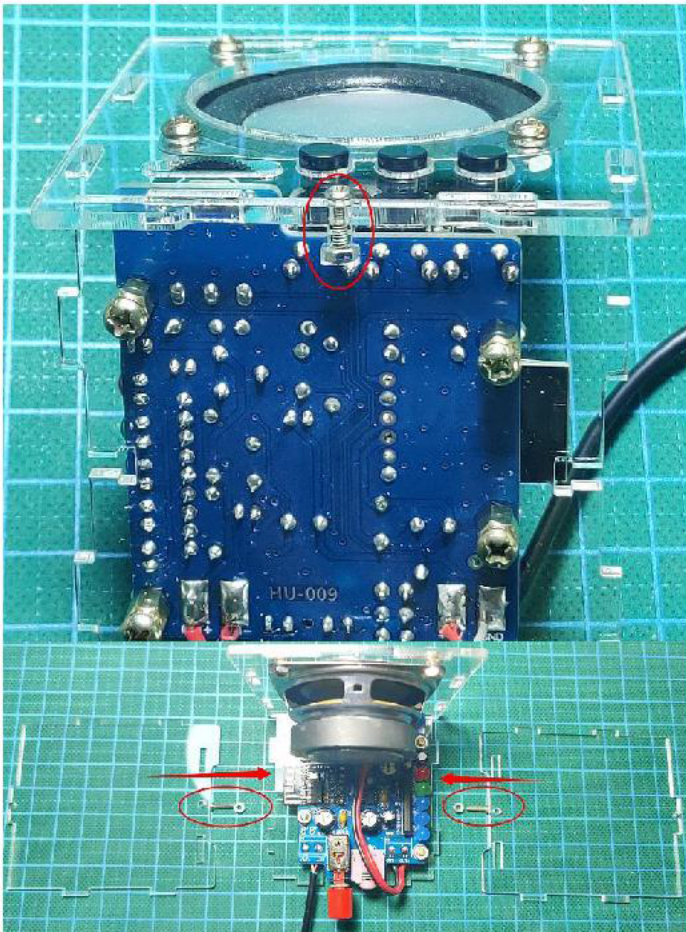
4.

Use M3 screws and nuts to fix the speaker on the front shell. Pay attention to the position of the button knob hole, as shown in the figure below.

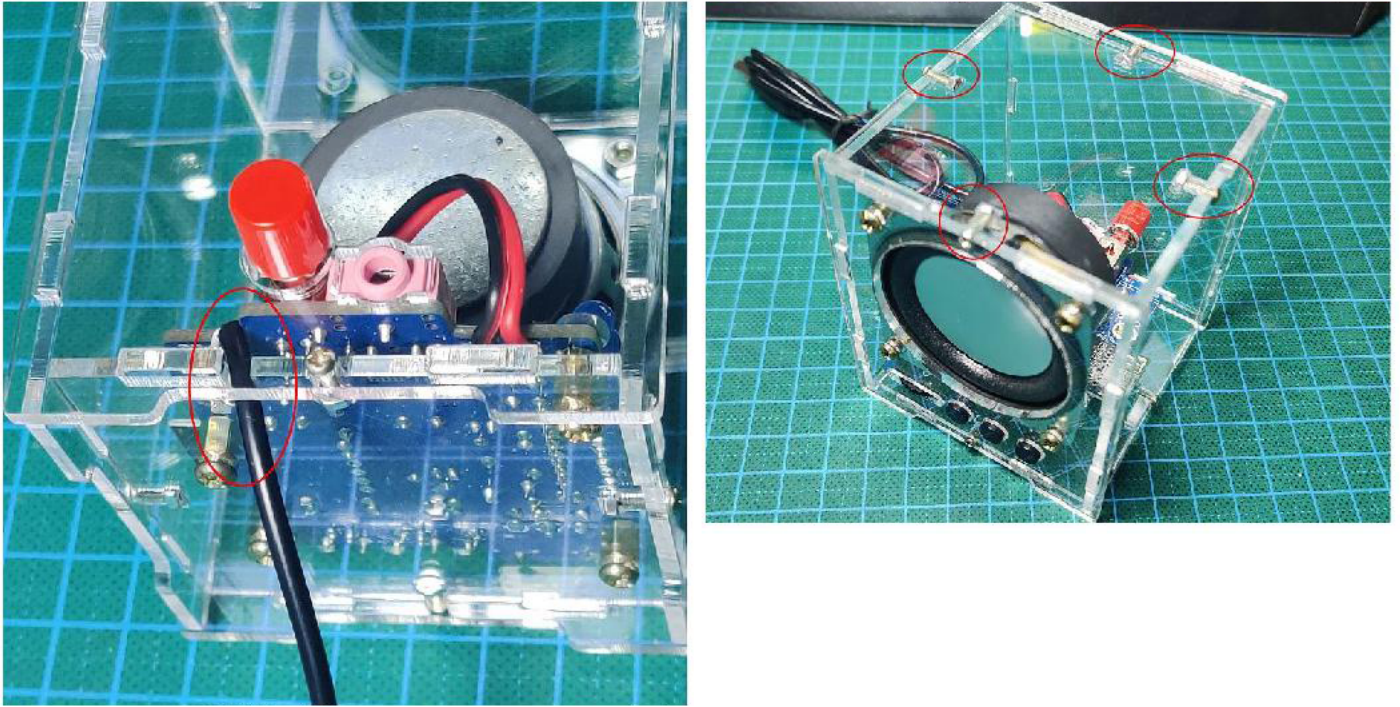




5.  
Install the left and right side shells and fix them with M2 screws and nuts, as shown in the figure below.



6. Finally, pull out the power cord from the bayonet of the bottom shell, assemble the top and back shells, and fix them with screws and nuts, as shown in the figure below.



The key function description is shown in the figure below:

