GeekLJT 33KO Dual Channel Bluetooth Audio Soldering Kit Instruction Manual

33KO Dual Channel Bluetooth Audio Soldering Kit Instruction Manual

Contents

Introduction

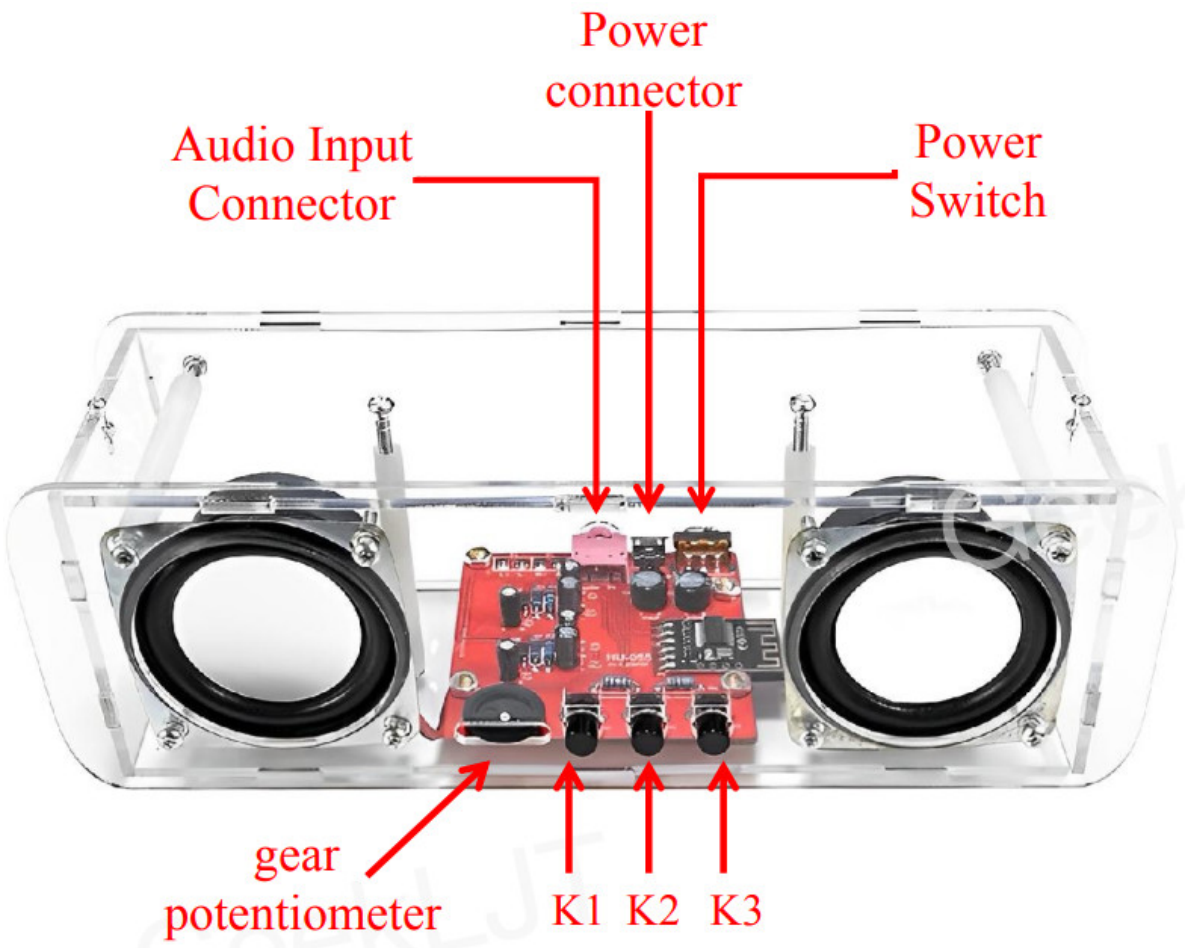
Dual Channel Bluetooth Audio Soldering Kit

- Support 5.0 Bluetooth
- Beautiful appearance
- Excellent sound quality
- Supports audio cable

Product parameters

parameter	value
Name	Dual Channel Bluetooth Audio Soldering Kit
Size(installed)	204mm*65mm*70mm
Sound Channel	2
Work power supply	USB
Work Voltage	5V
Work Temperature	-30℃~80℃

Function Demo



- **Power Supply**

  – Fast charging head of the cell phone is more recommended.
- **Bluetooth mode**

  – Bluetooth turns on automatically after power on. Short press K1 to turn Bluetooth on or off. Short press K2 for the previous song, long press for volume reduction; Short press K3 for the next song, long press for volume increase.
- **Audio Cable Mode**

  – After inserting the audio cable, the Bluetooth input function is disconnected. The audio cable input is not affected by Bluetooth.
- **Adjust the overall volume**

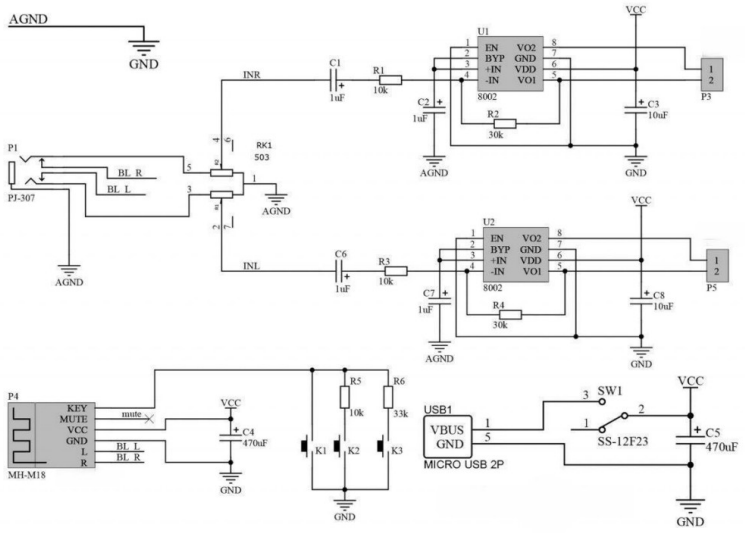
  – Toggle the gear potentiometer to the left to increase volume, toggle to the right to decrease volume

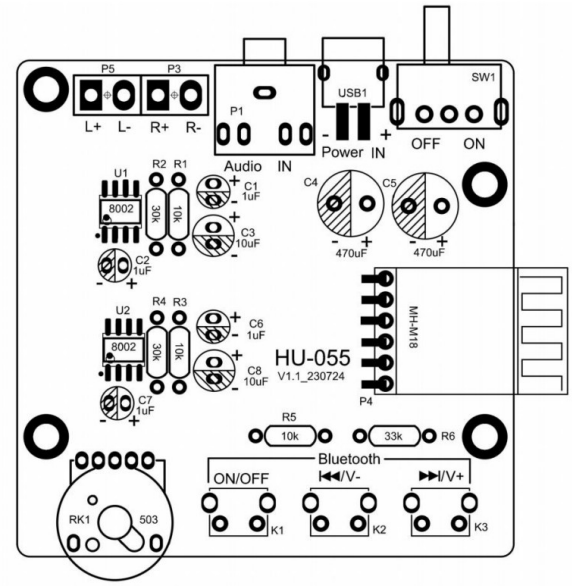
Application

Component Listing

No	Name	PCB Marker	Quantity
1	Direct plug-in electrolytic capacitor 1uF	C1, C2, C6, C7	4
2	Direct plug-in electrolytic capacitor 10uF	C3, C8	2
3	Direct plug-in electrolytic capacitor 470uF	C4, C5	2
4	Red audio socket	P1	1
5	Black Key	K1, K2, K3	3
6	Bluetooth Audio Module	P4	1
7	Direct plug-in resistance 10kΩ	R1, R3, R5	3
8	Direct plug-in resistance 30kΩ	R2, R4	2
9	Direct plug-in resistance 33kΩ	R6	1
10	Dial gear adjustable potentiometers	RK1	1
11	Power switch	SW1	1
12	8002 power amplifier chip	U1, U2	2
13	MICRO power interface	USB1	1
14	Bluetooth audio circuit board	/	1
15	4 ohm 3 watt speaker	/	2
16	12CM red and black wire	/	2
17	Shell + screw package	/	1
18	Black keycap	/	3
19	White microUSB power cord	/	1
20	3.5MM Dual Head Audio Cable	/	1

Schematic Diagram

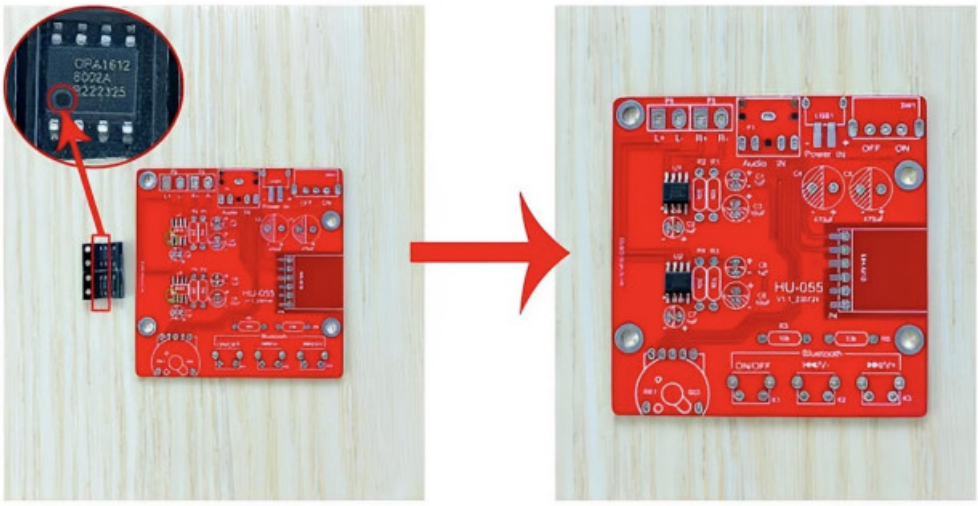




Installation Tips

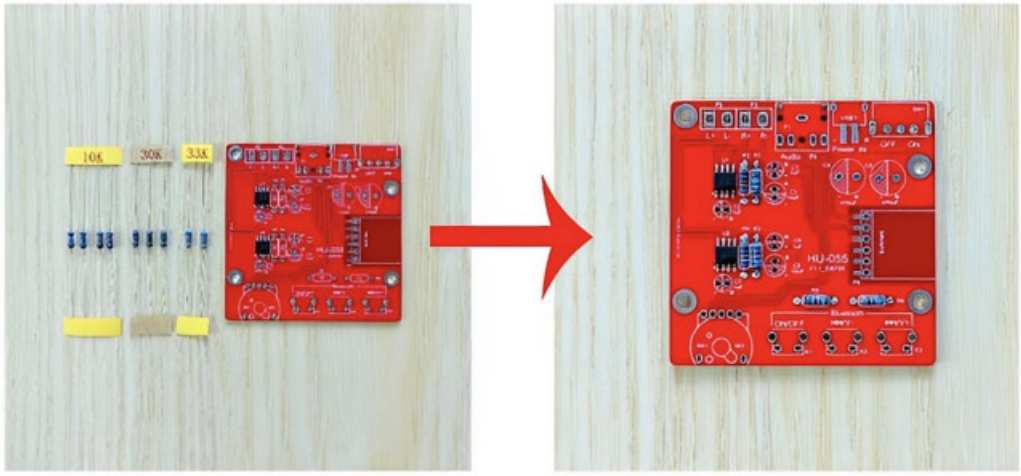
- Before installation, users need to prepare the welding tools in advance.
- The installation process requires enough care and patience.
- Be sure to read through the installation instructions before starting the installation.
- Welding sequence: components from high to low
- In order not to damage the components, the soldering iron should not touch the components for too long.
- Pay attention to the positive and negative markings on the pcb, long pin of the component is positive.
- Ensure that similar components with different parameters are placed in the correct position on the pcb.
- Wearing anti-static gloves or anti-static wristbands is better.
- Ensure that components are not accessible to children.

Step1: Install the 8002A chip



Tips:
1. Make sure the direction of the 8002A chip's concave dot marking is the same as the direction of the PCB silkscreen white dot marking before soldering.
PCB Marker: U1,U2

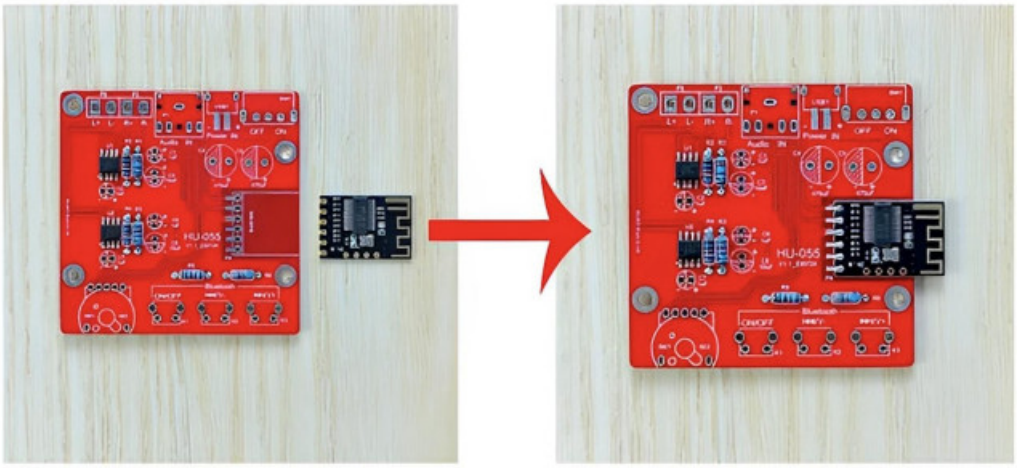
Step2: Install the resistors



Tips:
1. Solder 10KΩ (brown-black-black-red-brown), 30KΩ (orange-black-black-red-brown), and 33KΩ (orange-orange-black-red-brown) resistors against the silkscreen location.
PCB Marker:

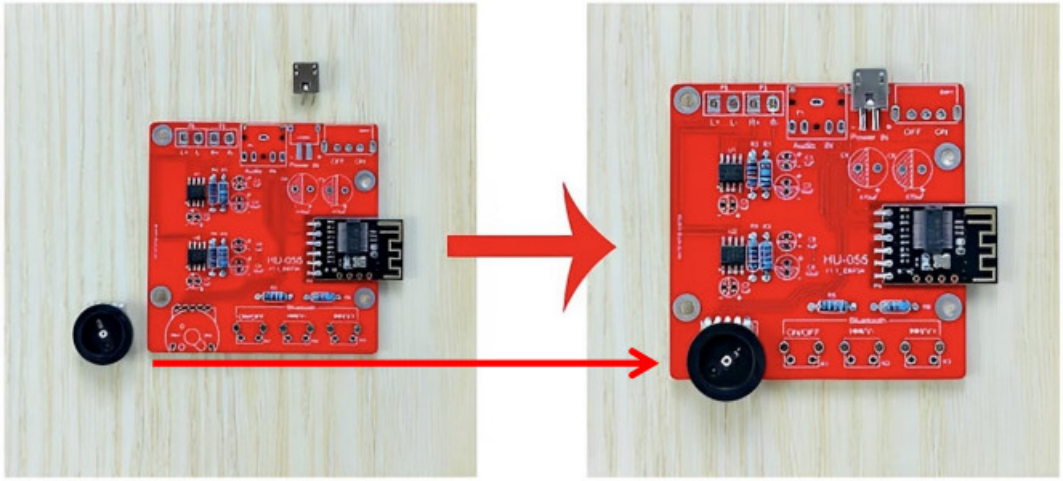
10KΩ – R1,R3,R5
30KΩ – R2,R4
33KΩ – R6

Step3: Install the Bluetooth Audio Module



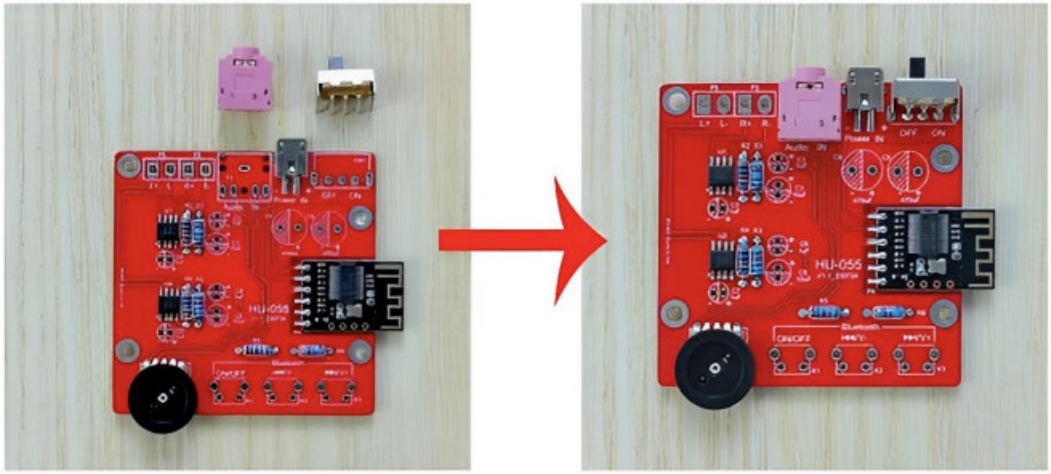
Tips:
1. According to the screen printing position, weld the Bluetooth audio module (MH-M18).
PCB Marker:
P4

Step4: Install the Android power interface & dial adjustable potentiometer



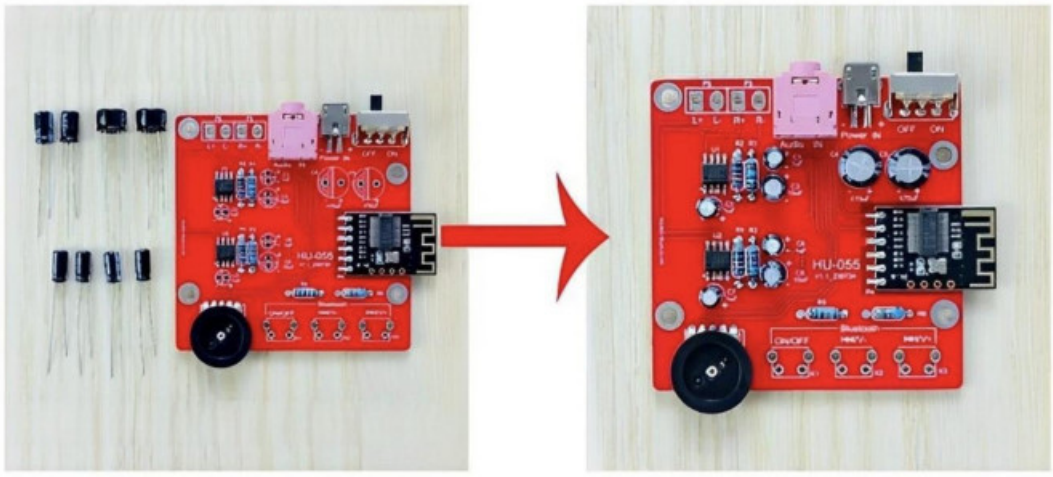
Tips:
1.Weld the Android power interface and dial adjustable potentiometer.
PCB Marker:
Power interface – USB1
Dial adjustable potentiometer – RK1

Step5: Install the Red audio socket & Power switch PCB Marker:



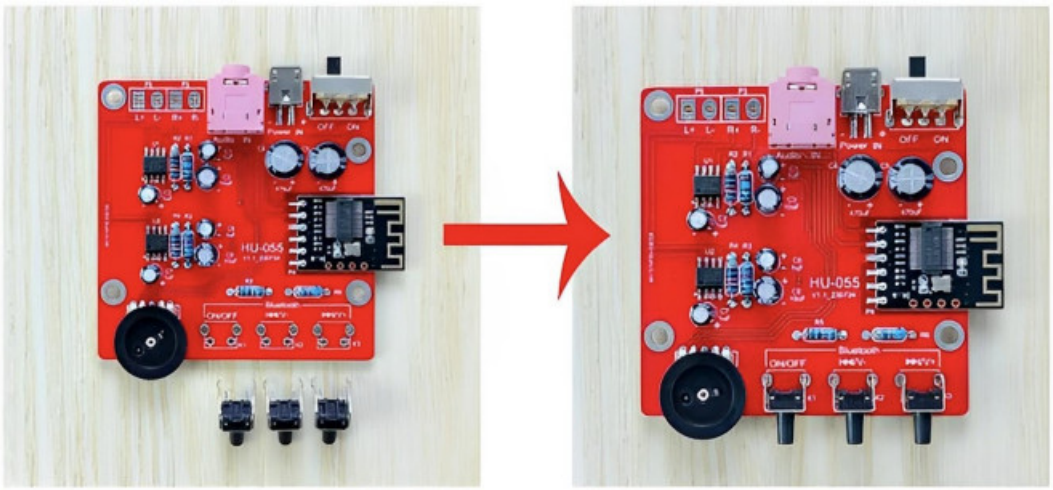
Audio socket – P1
Power switch – SW1

Step6: Install the electrolytic capacitor



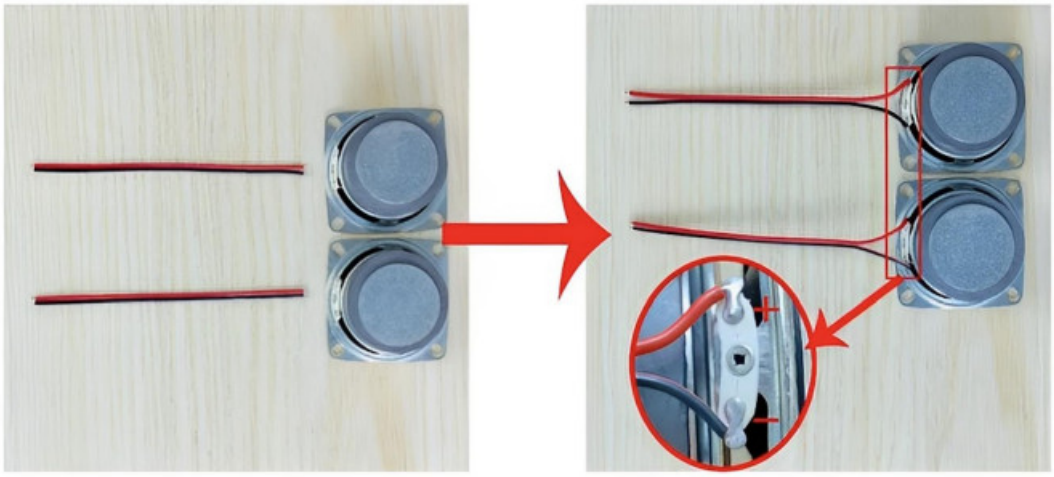
Tips:
1. The long pin of the electrolytic capacitor is positive and the short pin is negative; The shaded portion of the PCB silkscreen corresponds to the negative terminal.
PCB Marker:
1uF – C1,C2,C6,C7
10uF – C3,C8
470uF – C4,C5

Step7: Install the Black Key



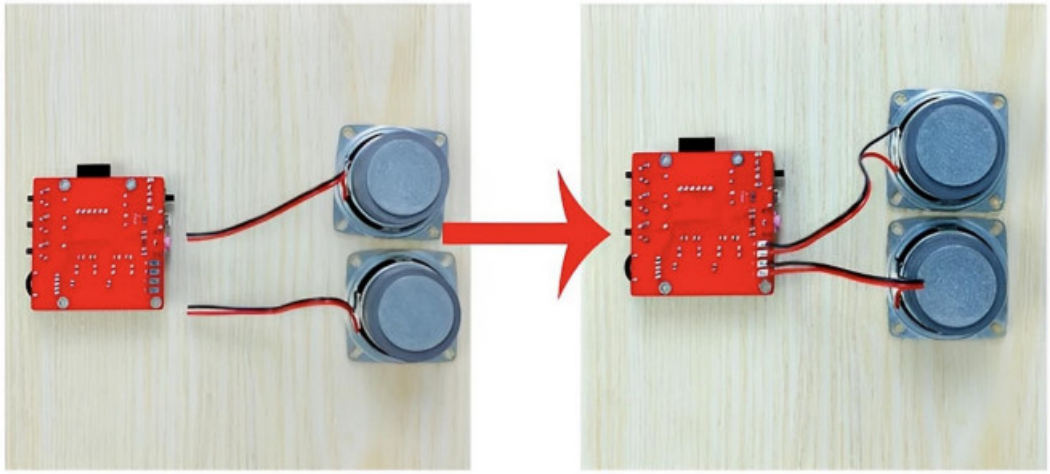
PCB Marker: K1,K2,K3

Step8: Soldering the speaker connecting wires



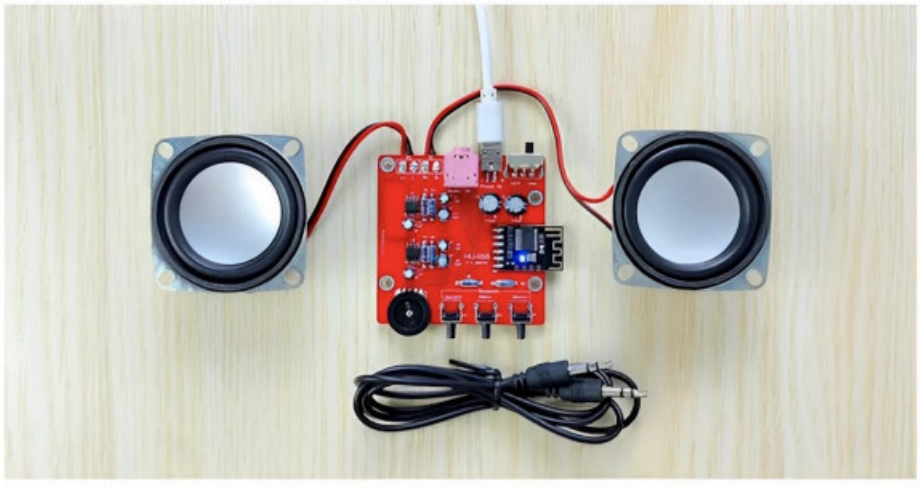
Tips:
1.2P red and black parallel wires (red positive, black negative) corresponding to the speaker positive and negative (positive “+” negative “-“) welding.

Step 9: Soldering the two speakers to the PCB



Tips:
1. Soldering the two speakers to the PCB; Left speaker (red wire: L+, black wire: L-) and the right speaker (red wire: R+, black wire: R-).

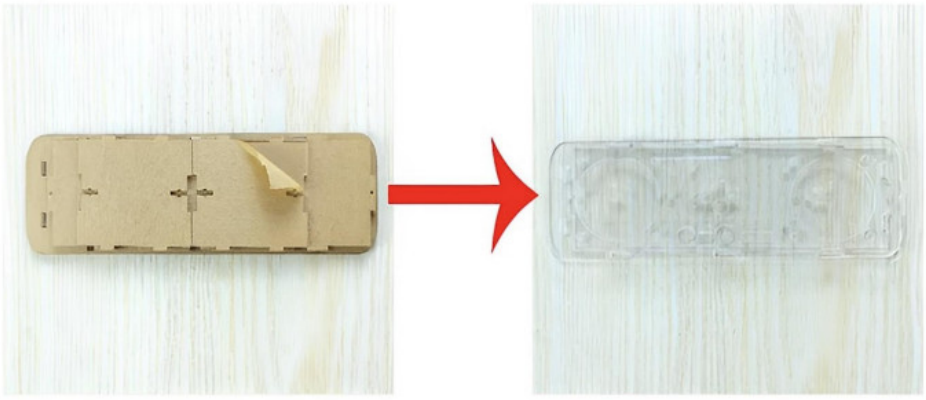
Step10: Power on test



Tips:

1. Connect the 5V DC power supply, power on and connect the Bluetooth (name: MH-M18) and audio cable respectively, test the functions, confirm the normal function before installing the shell.

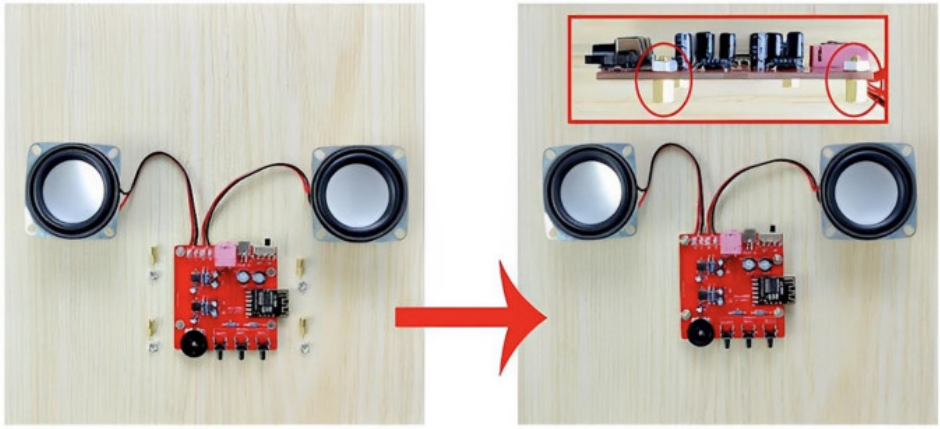
Step11: Tear off the protective film of the shells



Tips:

1. After confirming that all functions are normal, start to install the shell and tear off the protective film from the corners of the acrylic. Note: It is forbidden to rub with knives, iron sheets or other hard objects! It is easy to damage the acrylic shell

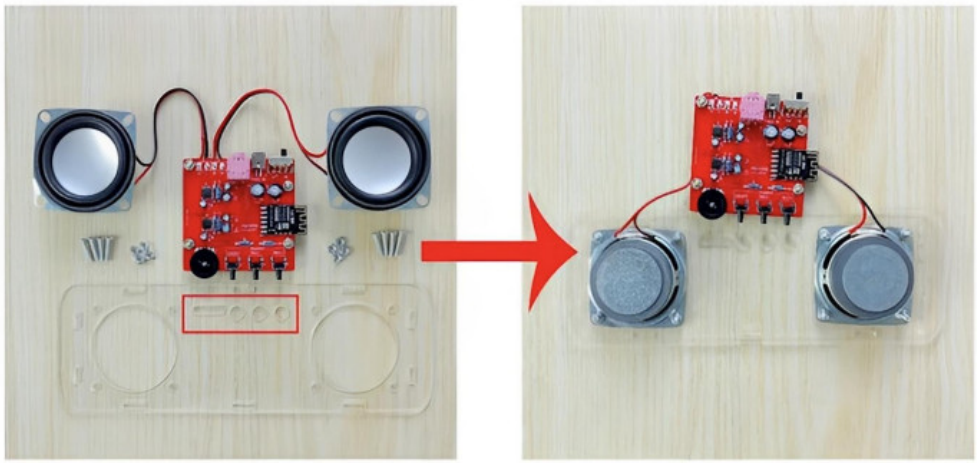
Step12: Install the copper column



Tips:

1. Thread the single-pass copper column up from the bottom of the PCB and screw a nut on it to secure it.

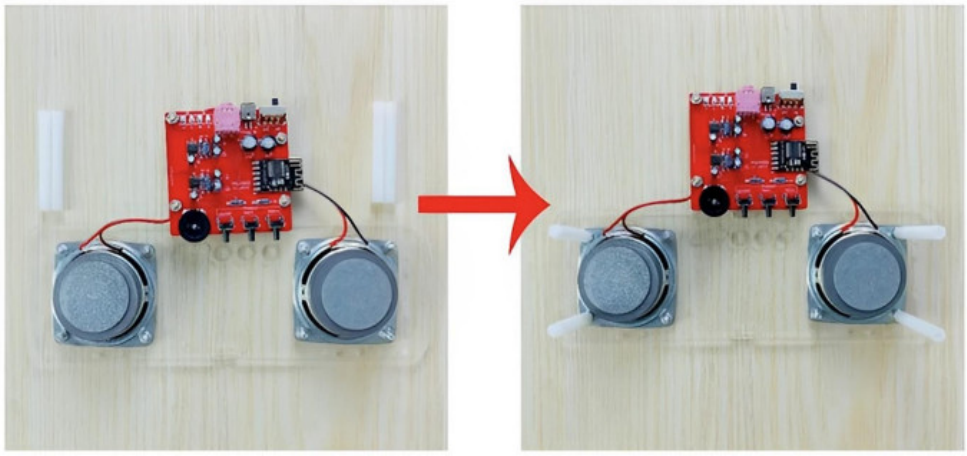
Step13: Install the speaker on the front shell



Tips:

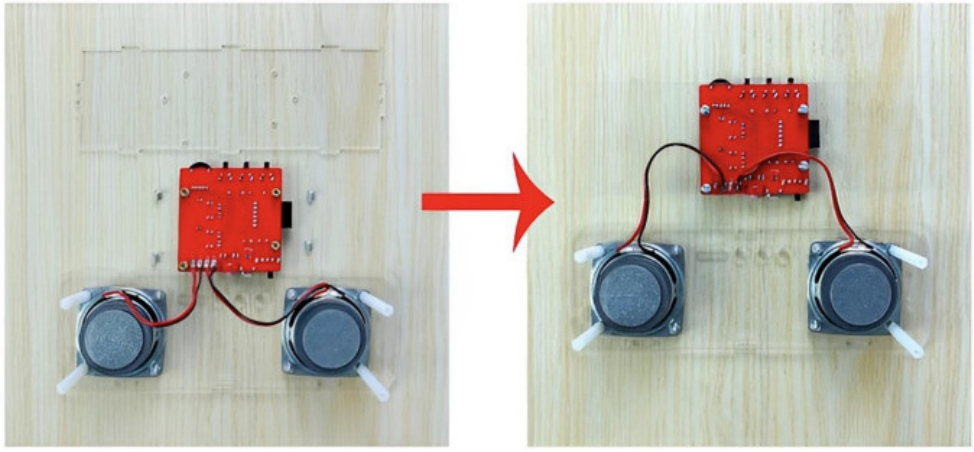
1. Adjust the installation direction of the front shell and insert medium-length screws from the front. When the speaker is installed, the cable should be installed towards the bottom; Then screw the nut, adjust the position of the speaker, and then tighten the screw.

Step14: Install the nylon column on the speakers



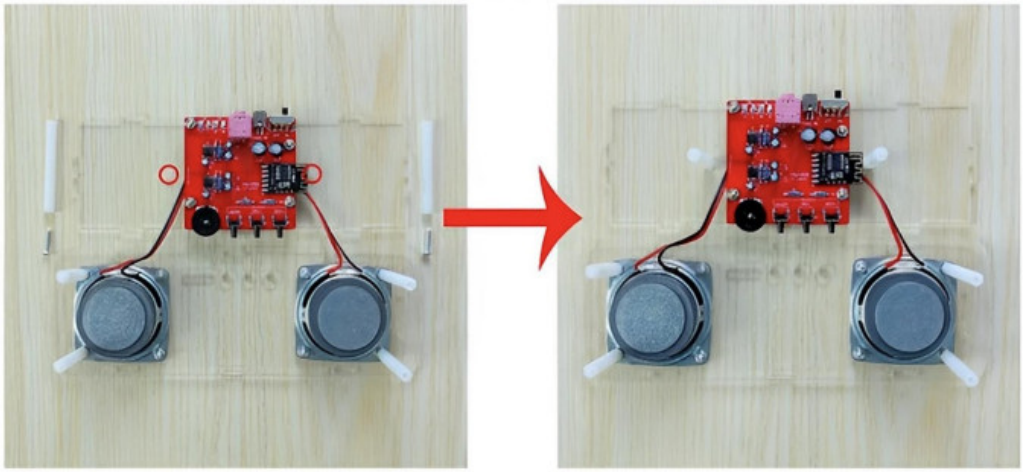
Tips:
1. After the speaker is fixed, screw the double-pass nylon column on the two screws on the left and right sides near the edge, and keep it 90 degrees perpendicular to the front shell.

Step15: Install the bottom shell



Tips:
1. First, organize the speaker connecting wires to the bottom of the PCB, adjust the orientation of the bottom shell, screw holes aligned with the copper column, and then screw in the shortest M3 screws to fix it.

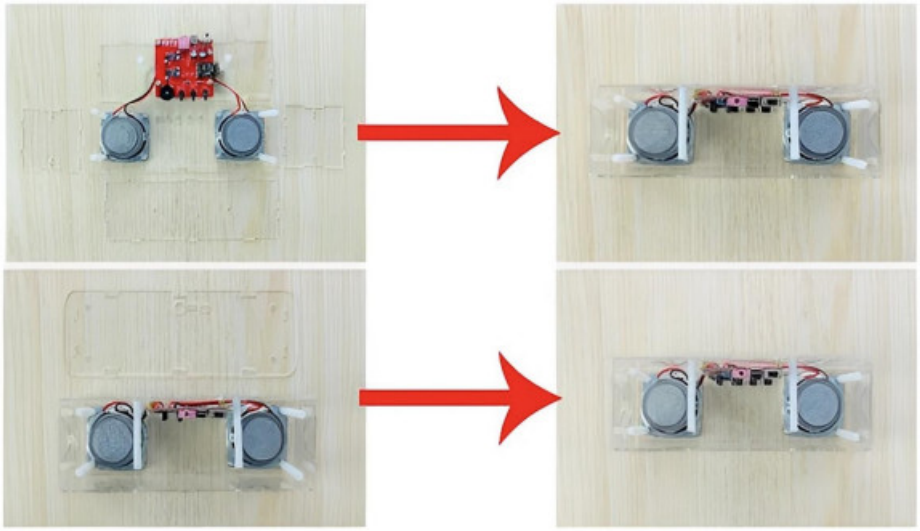
Step16: Install the nylon column on the bottom shell



Tips:
1. Thread the medium-length M3 screws through the bottom shell, then flip it over and screw on the double-

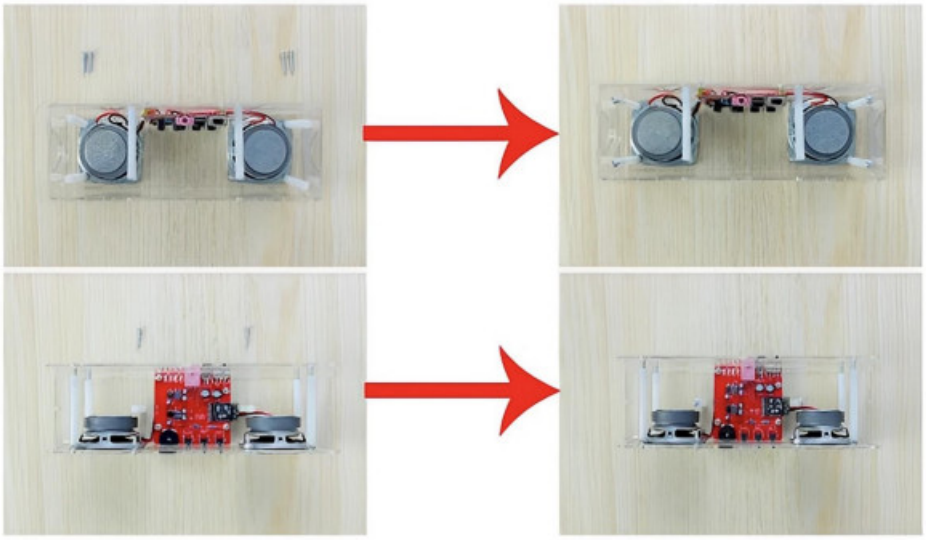
through nylon column for fastening.

Step17: Install the shells



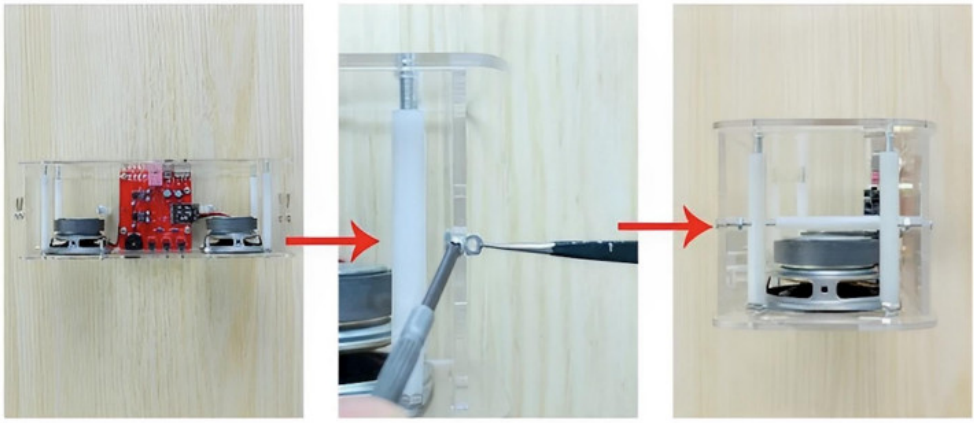
Tips:
1. Adjust the alignment of the openings, install the top and bottom and left and right housings, then install the rear shell.

Step18: Install the shells



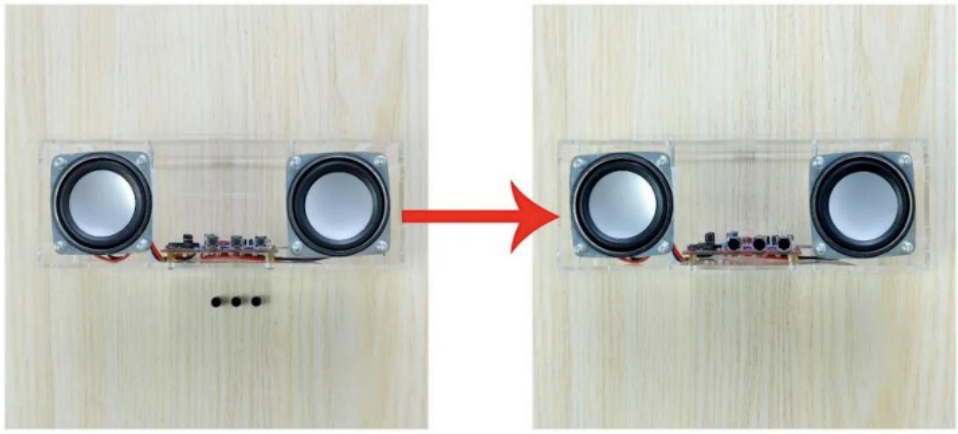
Tips:
1. Screw in the longest screws through the rear shell screw holes, then flip it over and screw in the longest screws through the top shell screw holes to secure it.

Step19: Install the shells



Tips:
1. Pick up the M2 nut with tweezers, carefully put it in the card slot of the left and right shells, and then screw in the M2 screw to fix it.

Step20: Install the keycaps



Tips:
1. Press the keycap to align the key and press down vertically to install.

Congratulations!

Documents / Resources

	GeekLJT 33KO Dual Channel Bluetooth Audio Soldering Kit [pdf] Instruction Manual 33KO Dual Channel Bluetooth Audio Soldering Kit, 33KO, Dual Channel Bluetooth Audio Soldering Kit, Channel Bluetooth Audio Soldering Kit, Bluetooth Audio Soldering Kit, Audio Soldering Kit, Soldering Kit, Kit

References

- User Manual