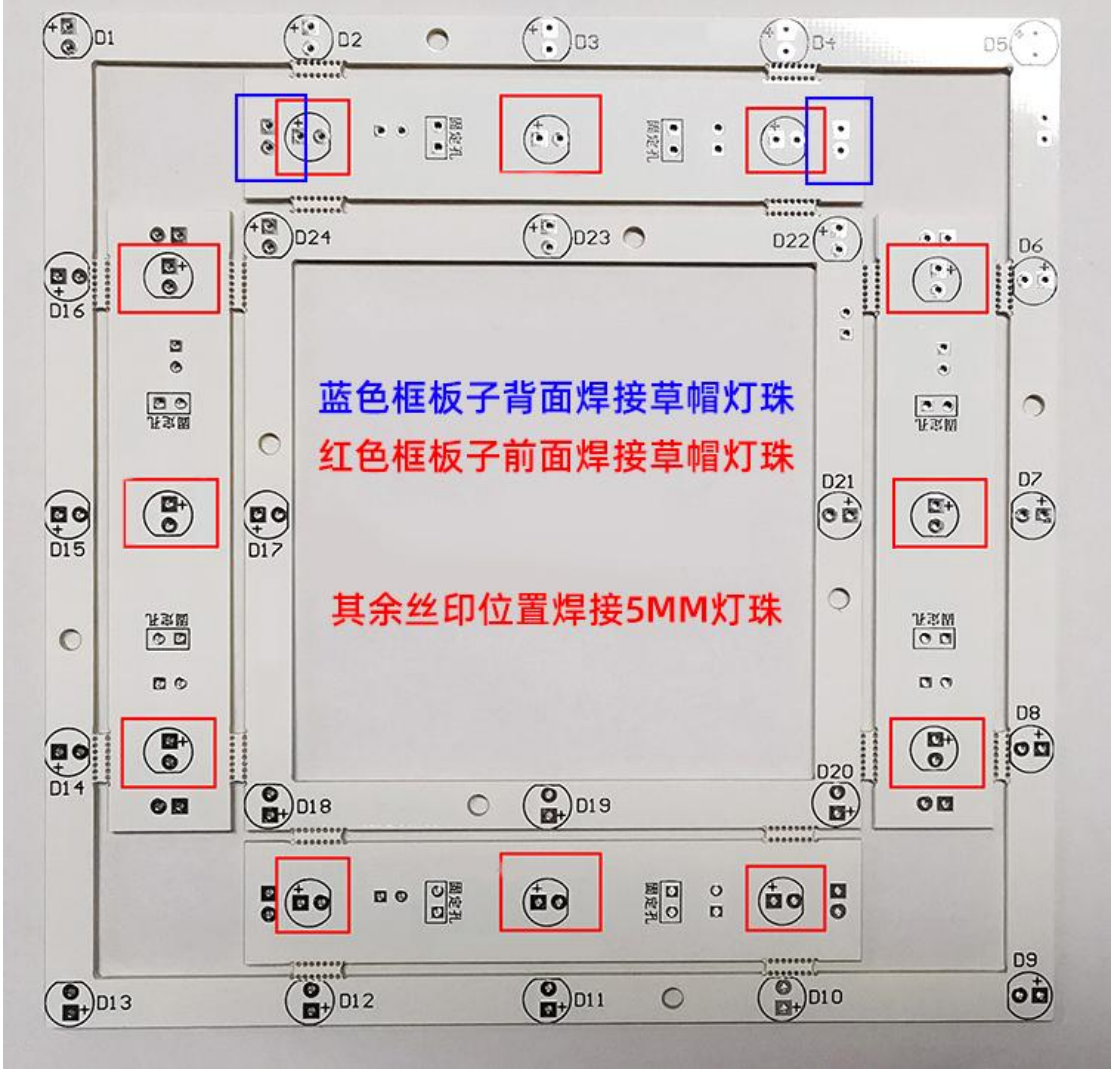
Voltage of the Paris Tower: 5V

I. The following is the welding list, please weld against the welding list and circuit board silkscreen:

List of loose parts of the Eiffel Tower in Paris				
Bulk Name		**parameters**	**Silkscreen position on the board**	**quantities**
crystal oscillator		12MHZ	Y1	1
Chip Capacitor 0805		27pf	C4,C5	2
Chip Resistors		100K	R17	1
		100R	R0,R1,R2-R15	16
multicolored lights		Straw Hat Lamp Short Foot	(4 Side-Leg Circuit Board Front and Back)	20
		5mm short legs	Rectangular boards D2~D5,D7~D15 Square boards D1~D24	37
power holder		plug directly into	P1	1
terminal wire		2P 14CM		6 articles
terminal block		2P	J1,J2, J3	6
circuit board				7 pieces
One-in-two Audio Block			present as a gift	1
Integral power and audio cable			present as a gift	1
Side-lying switch		long legs	S1	1
chip		stc12c5a08s2	U1	1
housings			optional	1
Housing Screw Nuts		3*8mm	Purchase of housing with	45
Selecting a Bluetooth Module				
component name		**parameters**	**Silkscreen position on the board**	**quantities**
Bluetooth Amplifier Module		Finished product shipment	optional	1
Pin Header		6p	Free with Module Purchase	1
horn (automobile etc)		4Ω3w	Bluetooth amplifier package with	1
Bugle Screw Nuts			Bluetooth amplifier package with	4
speaker wire		15cm	Bluetooth amplifier package with	1
electrolytic capacitor		47uf/16V	Free with Module Purchase	1



Straw hat beads soldered on the back of the blue frame boards

Red frame plate front welding straw hat lamp bead

The rest of the screen printing position soldering 5MM lamp beads

How to use the buttons (full brightness after power on for the first animation):

Press the first down to enter the second animation effect;

Press the second to enter the third animation effect;

Pressing the third to enter the fourth animation effect;

Press the fourth to enter the first audio effect;

Press fifth to enter the second audio effect;

Press sixth to enter the first animation effect;

Press again to go back to the second animation effect, and so on!

Paris Tower Music Spectrum Usage:

1, please connect the T-port of the included power audio cable to the kit input.

2, the power audio cable USB end into the computer USB port power supply or other +5V USB power supply interface is also available.

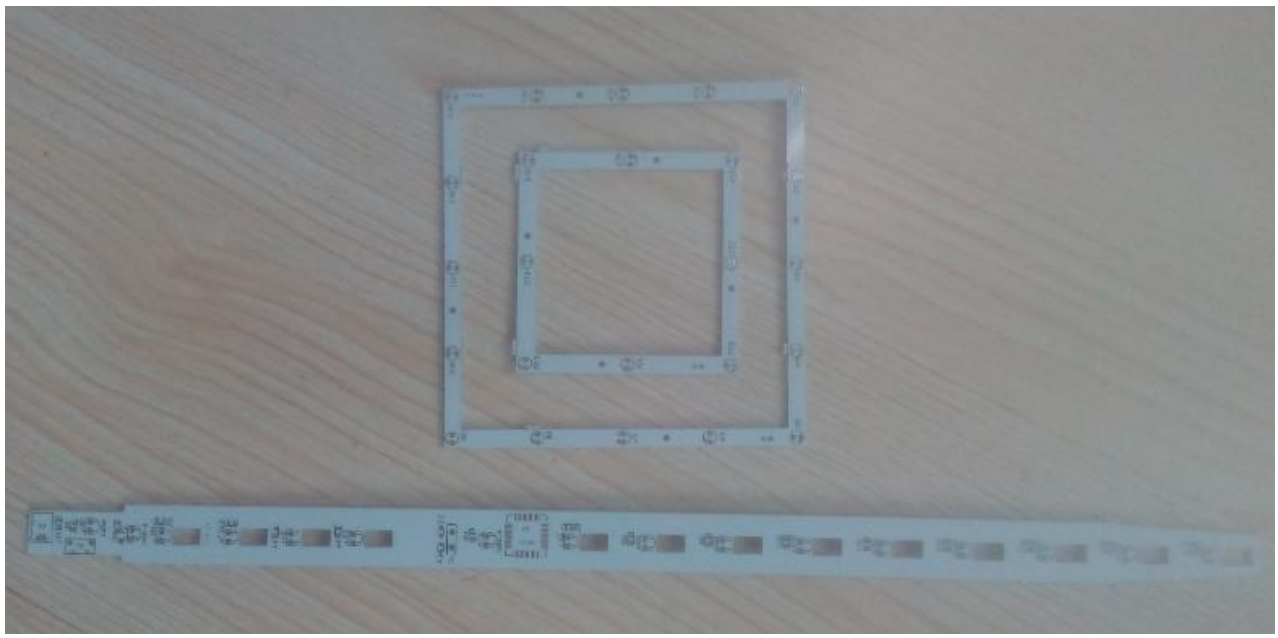
3.Connect the 3.5mm headphone connector of the power supply audio cable to one end of the supplied one-point-two audio holder.

4, the audio input cable connector of the audio equipment to the other end of the one-point-two audio seat.

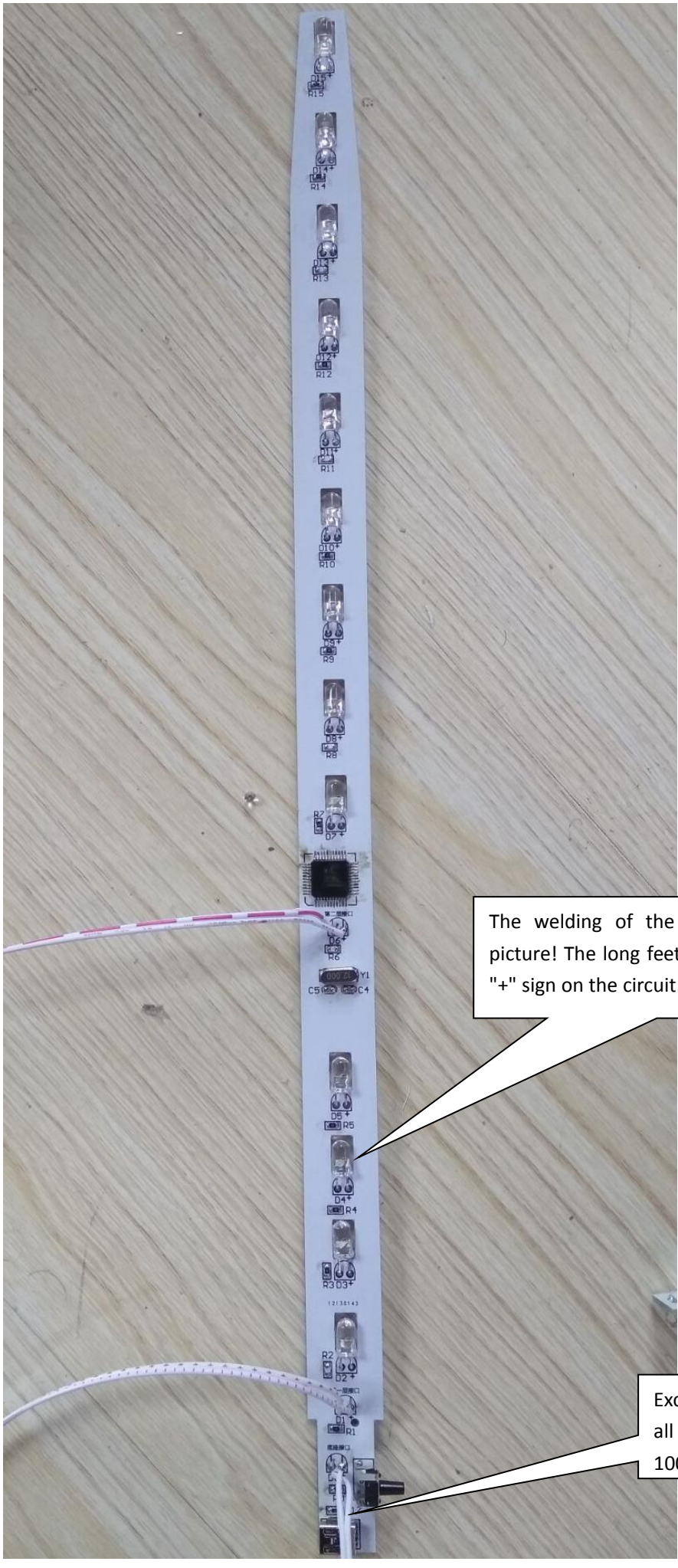
5, cell phone play music, switch the button into audio mode.

Second, welding steps

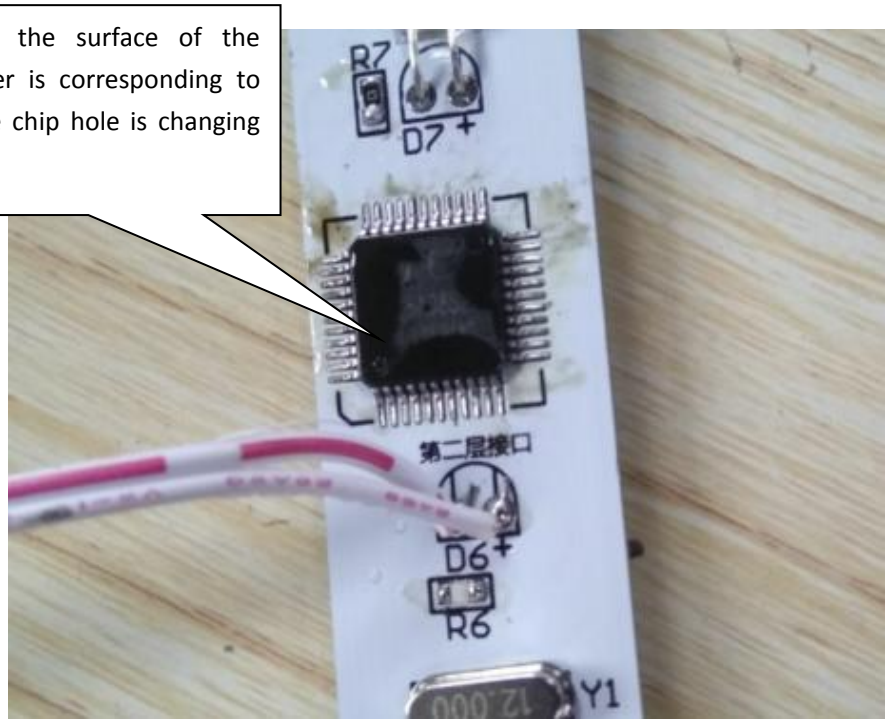
The four LEDs of the same size on the circuit board are all welded straw hat colorful LEDs, which are relatively short.



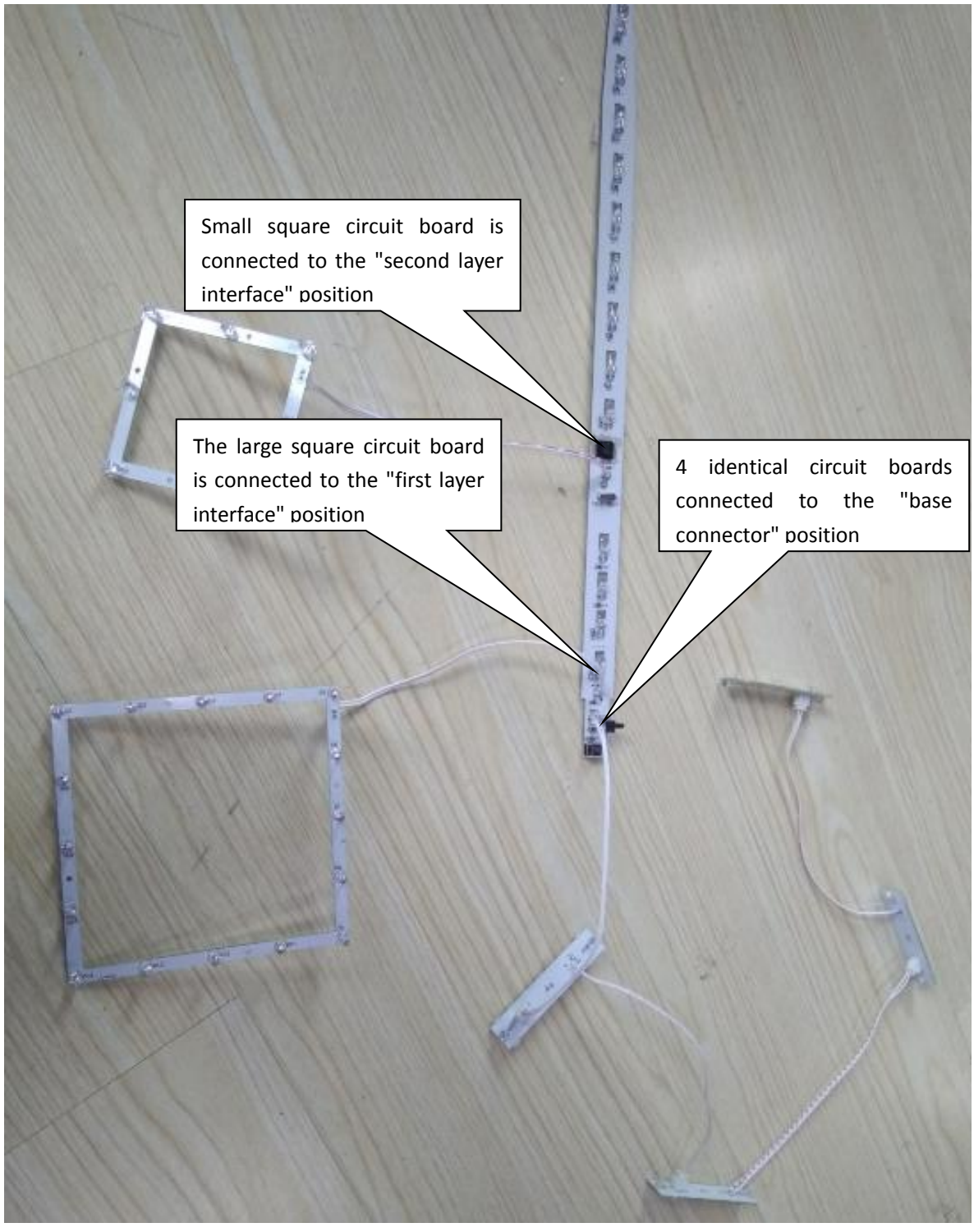
The LEDs on the long circuit board and the two square circuit boards are soldered with ordinary colorful LEDs, which are relatively long.


The welding of the lamp is shown in the picture! The long feet are positive, plug in the "+" sign on the circuit board!
Except for R17 welding 100K, all other resistors are welding 100R

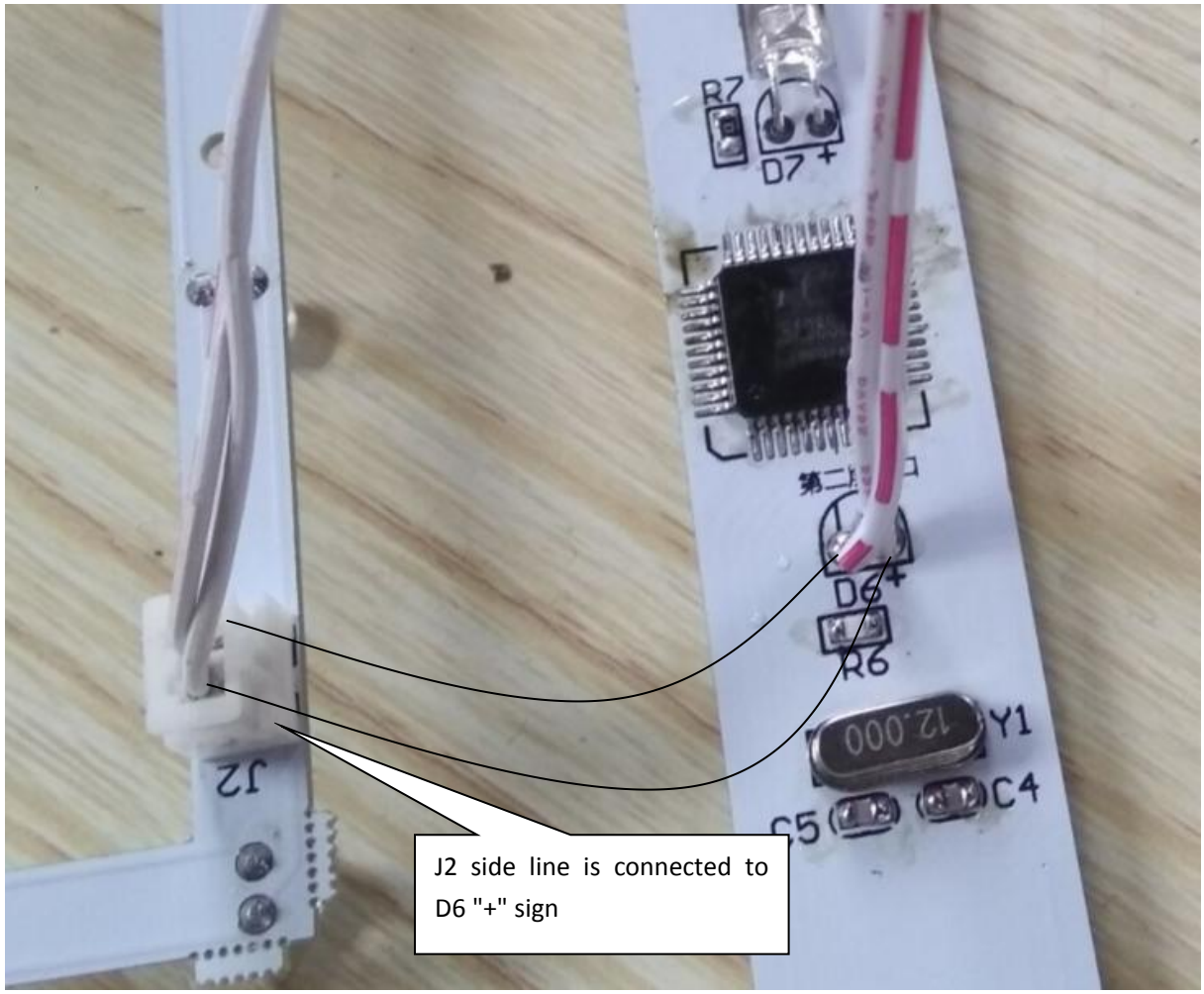
The font on the surface of the microcontroller is corresponding to itself, and the chip hole is changing position



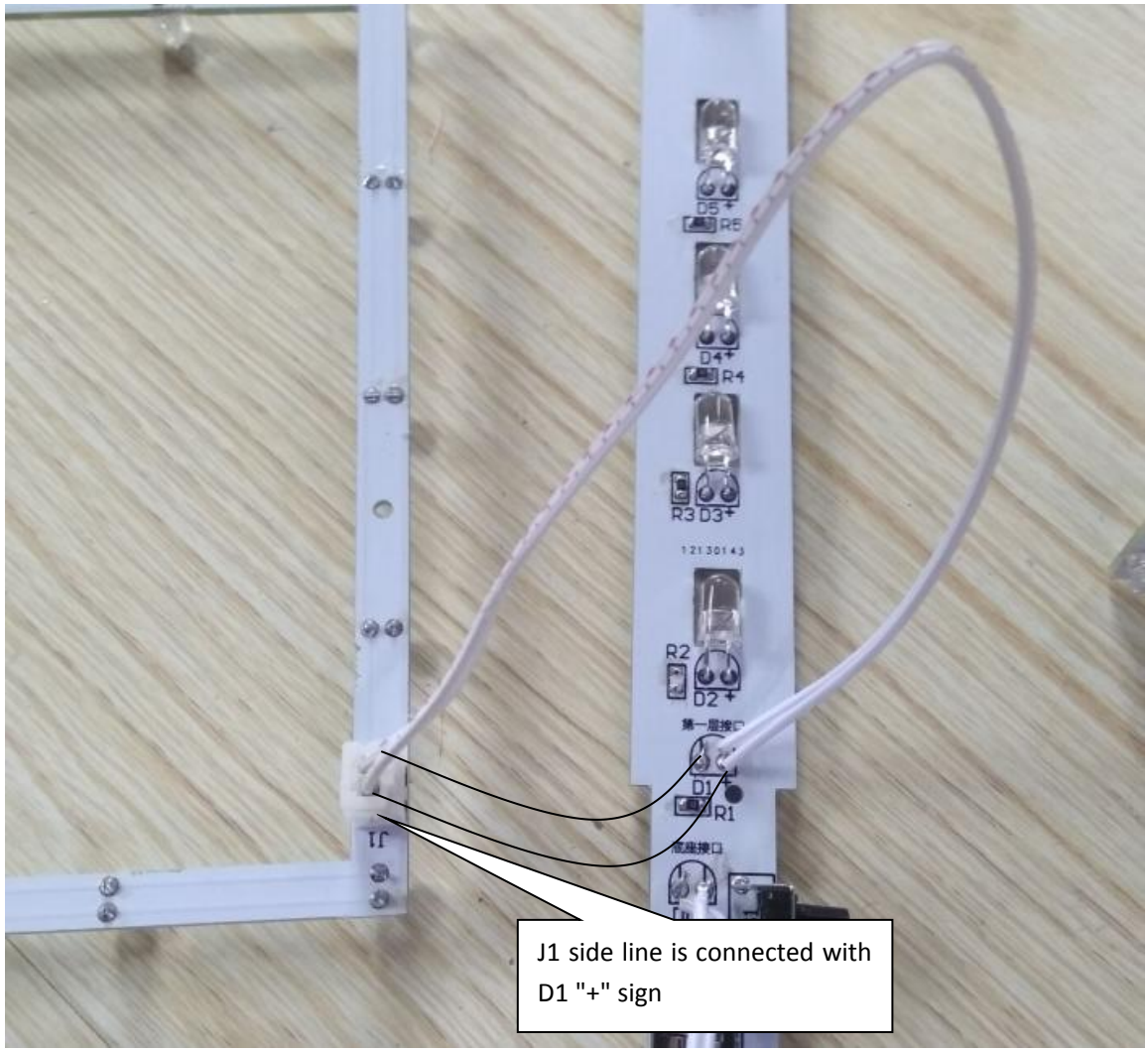
The overall connection is as follows:



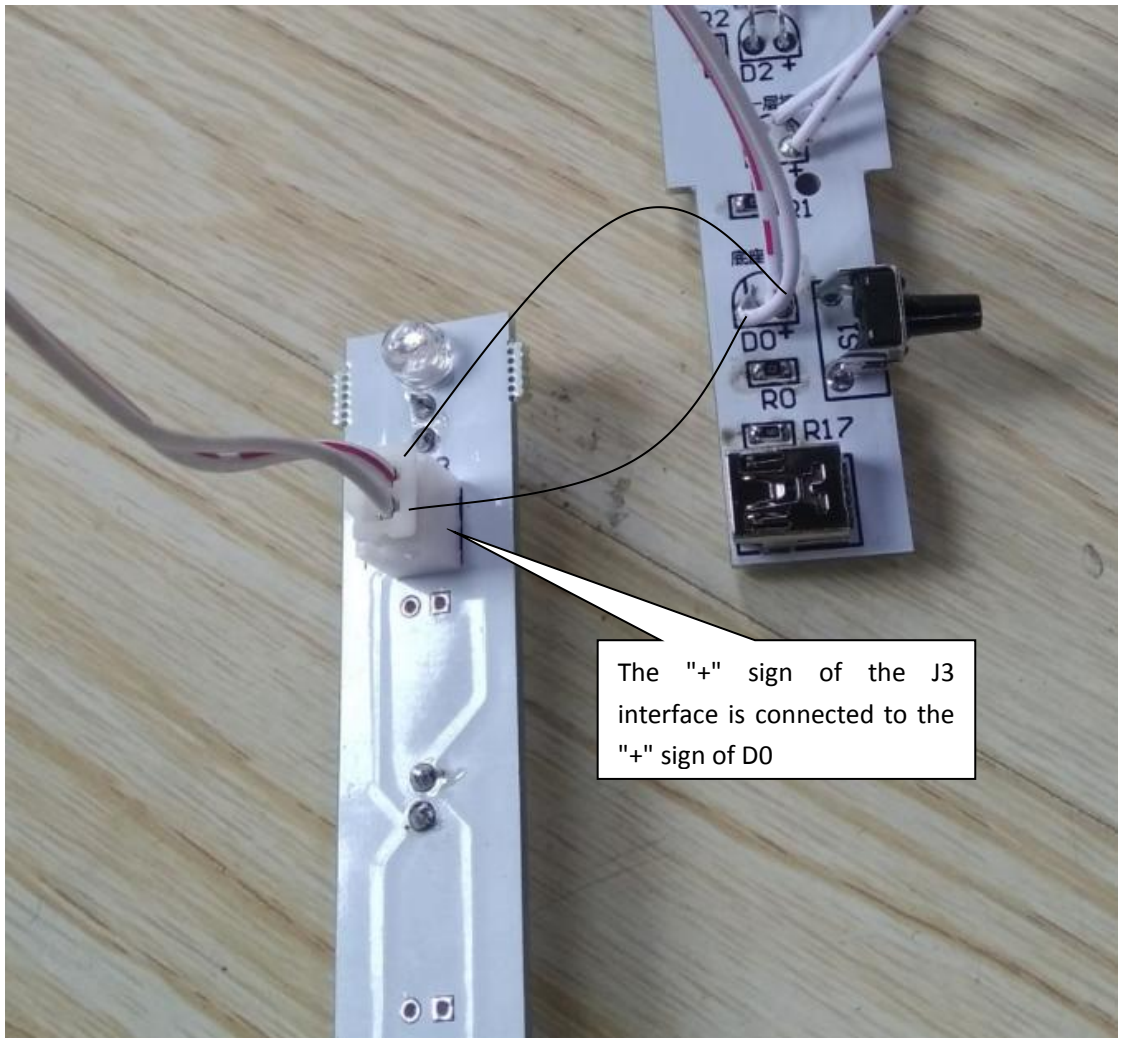
Small square circuit board and motherboard ″second layer interface″ connection::



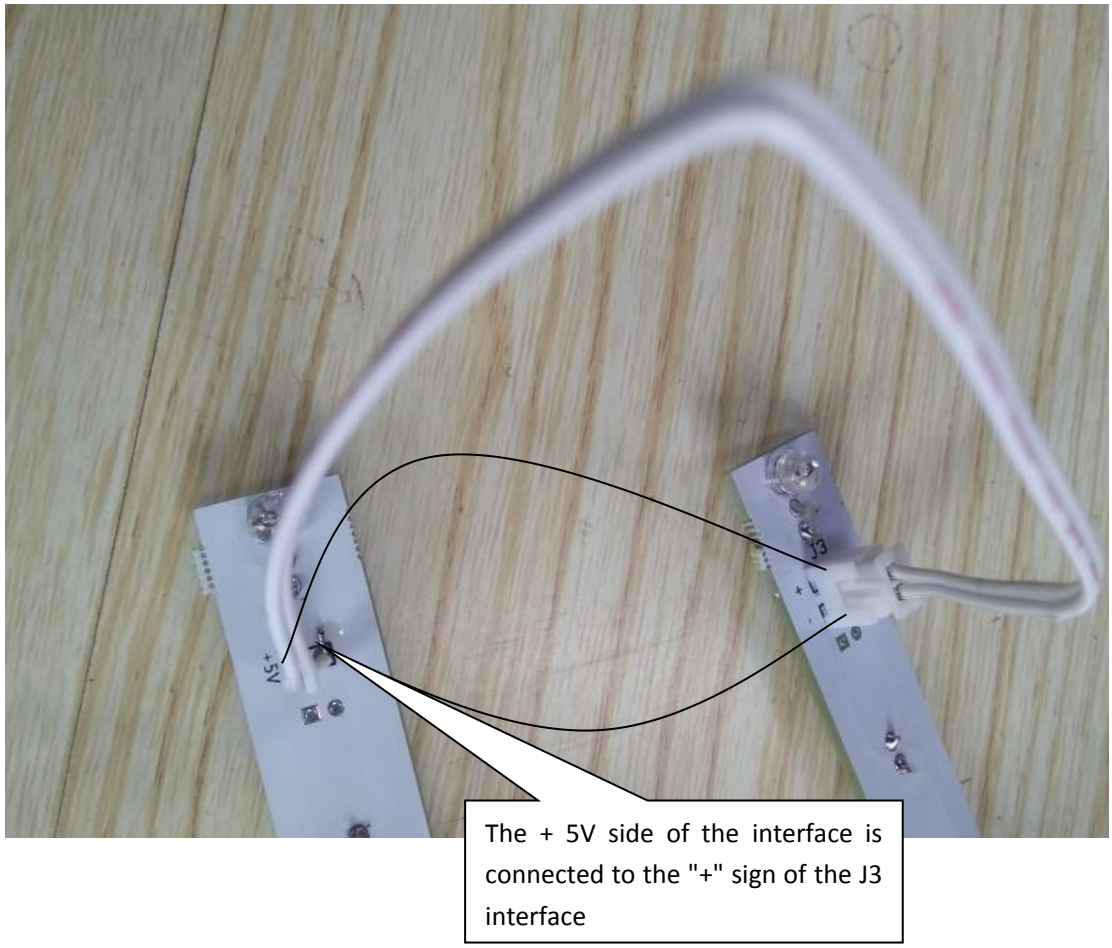
Large square circuit board and motherboard ″first layer interface″ connection:



4 ″base connector″ connections for the same circuit board and motherboard:

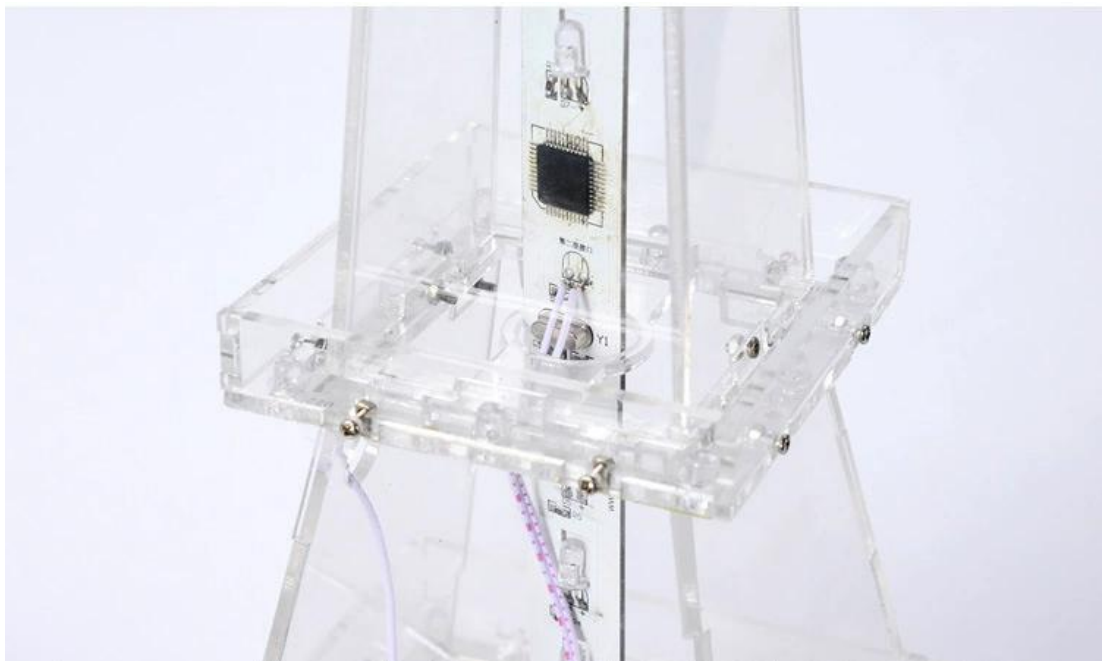


Four identical circuit boards are connected to each other:



Shell assembly steps: There are two kinds of shells. Textured and non-textured, the display is a textured shell..

Finished display of the Paris Tower after installation(tutorial below)



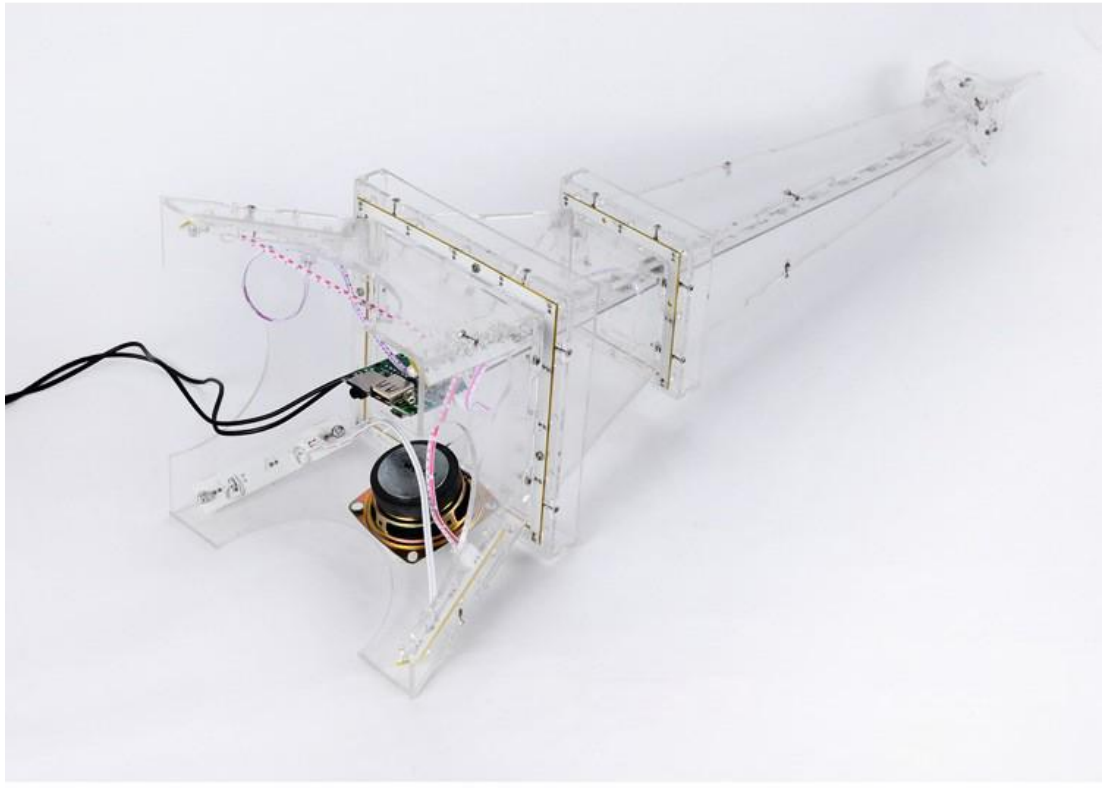


图1

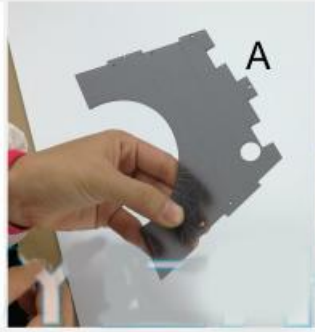


图2

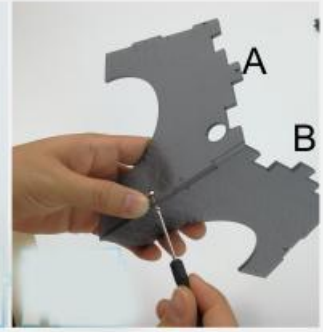


图3

The first step is to arrange the first - tier tower installation order (as shown in Figure 1), take the nut into the nut hole position, with a finger to drag the nut, to avoid falling (see Figure 2). (Figure 4)

Note: For faces A and B, the two outer rings are holed and screwed in place. When loading to pay attention to order, is parallel plane, and so on, the second and third layers are the same method. All holes, yellow circle marked that side is beautiful, is to install the same direction (Figure 5).

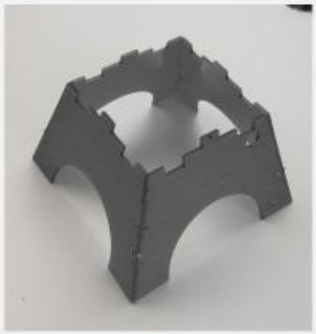


图4

图5

图6

The second step, install the bottom four corners of the welding good base plate. The three lights face diagonally inward, connecting the inner face of the base. Cut a small piece of about 10Cm of wire, wire through the two acrylic plate reserved hole and the bottom plate reserved hole (Figure 8), with the wire tightly rotated tied. Wire should be long and easy to wear. When the bottom plate and the shell is taut, the wire is rotated around several times, and the line is flattened, and it is very strong. Of course, if you want to be more solid, we also reserved a pair of hole bit. By analogy, the first - storey tower (bottom) shell and bottom plate are installed (see Figure 9).

图7

图8

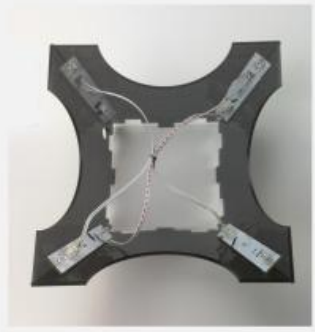


图9

The third step, the welded large square bottom plate into the installed first shell. Note that the surface of the socket is always installed on the shell corresponding to the round hole to facilitate plug connection in and out (Figure 10). Because it's not vertical, all the way in, you need to pull it out gently with your hand.

Just a moment (Figure 12). When E is installed, the first layer base and E are fixed with screws (Figure 13). Next, the large square base plate is screwed to the housing E. (Figure 14). By analogy, the four sides are fixed (Figure 15).

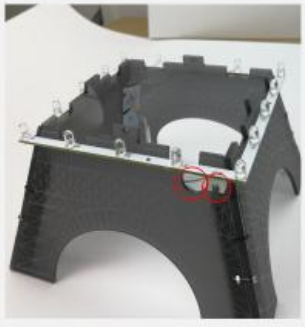


图10

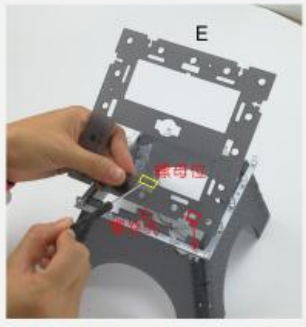


图11

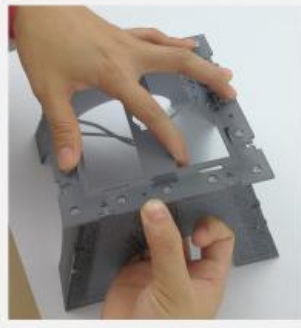


图12

图13

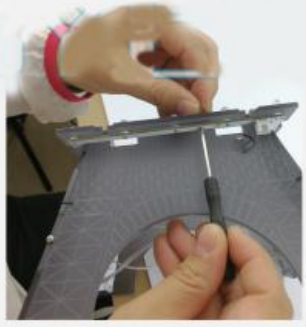


图14

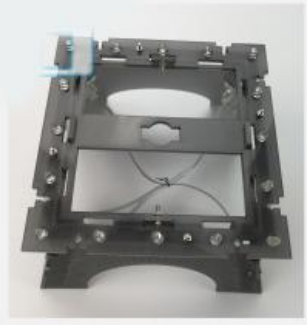


图15

Step 4. Install the second tower. Insert the housings F and H (FIG. 16) into the holes. Note that the round holes must be mounted on the same side (FIG. 17). Then fix the connection between the second tower and the first tower with the screw nut in turn (Figure 18) (Figure 19). Next, the small square bottom plate package is installed on the second tower shell. according to the installation method of the first layer, the second layer tower and the platform are installed in turn (fig. 21). Note: In Figure 21, the red coil is in the hole because the soldering socket will have a raised place in the socket C. So that the circuit board can not be flat on the shell and reserved holes, installation must be completed in accordance with the diagram to complete, otherwise it is difficult to install screws.

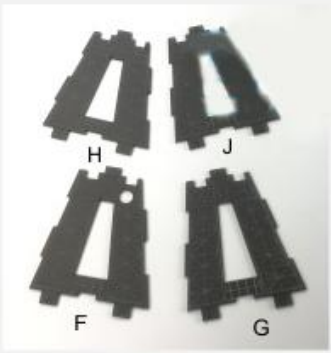


图16

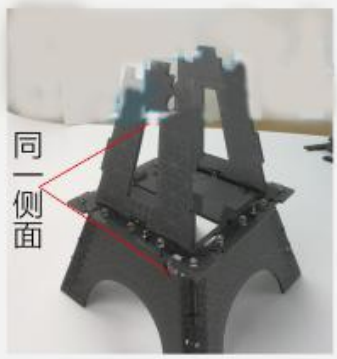


图17

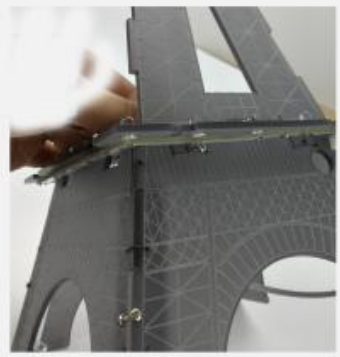


图18

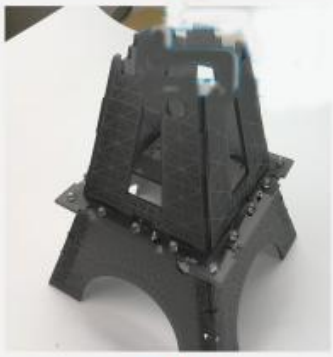


图19

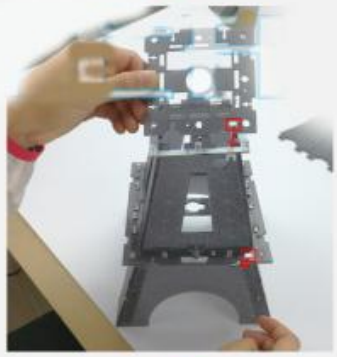


图20

图21

Step 5. Install the third tower. Insert the housing and N (Fig. 22) into the hole position first, Then fix the connection between the third tower and the second tower with the screw nut (fig. 23) (fig. 24), then reinforce the four outer shells with the screws on the screw position. Then the housing O is installed according to the first and second tower installation method in accordance with the hole position (Figure 25), and then the corresponding screw position on the screw reinforcement (Figure 26). Next, install the spire, insert the holes in turn, and install the upper screws (Figure 27-29).

图22

图23

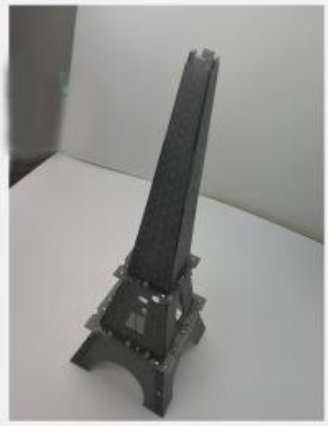


图24

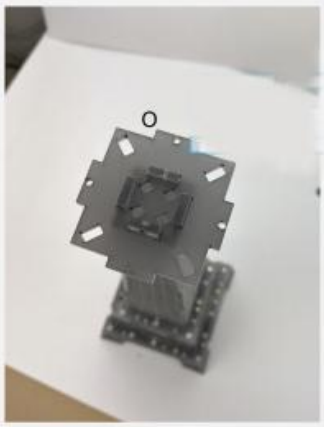


图25

图26

图27

图28

图29

图30

Step 6. Install each of the tower's enclosures. (Figure 33).

（如图33）。

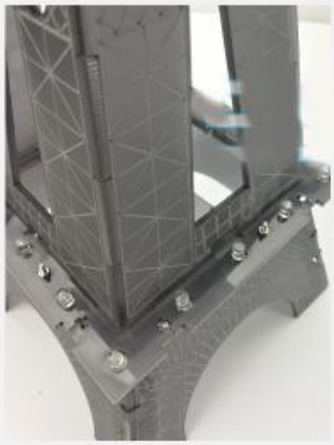


图31

图32

图33

Finally, insert the welding hole of the bottom plate into the swivel clip (Figure 34 - 35). Then plug in all the plugs connected to each other (see Figure 36), the Eiffel Tower final finished.

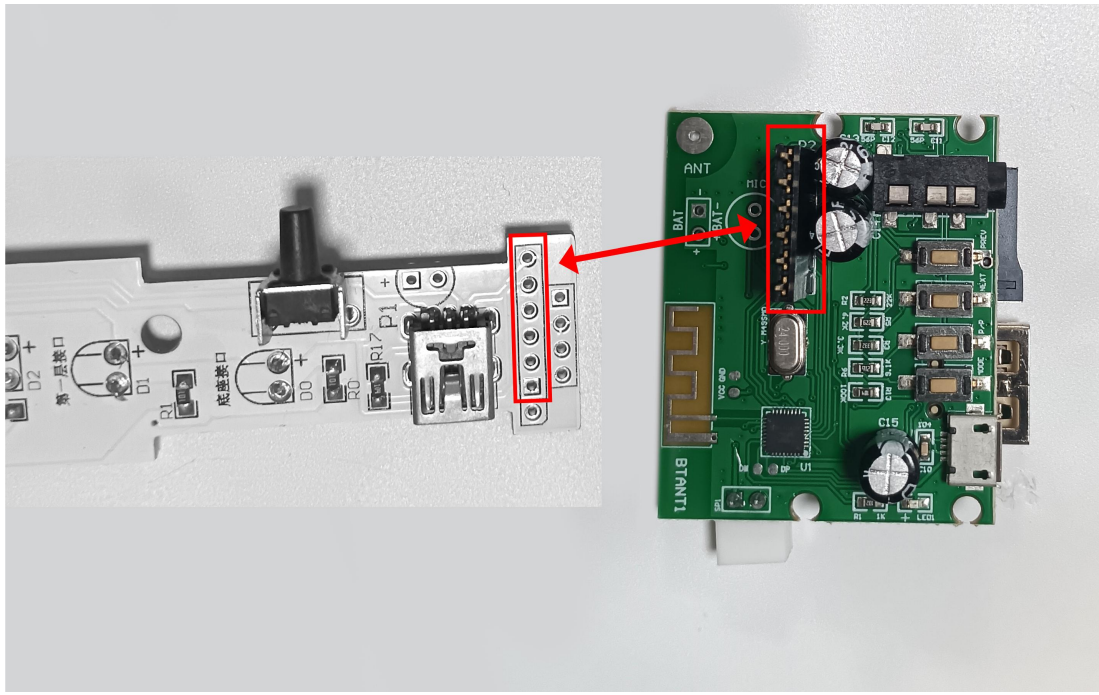
图34

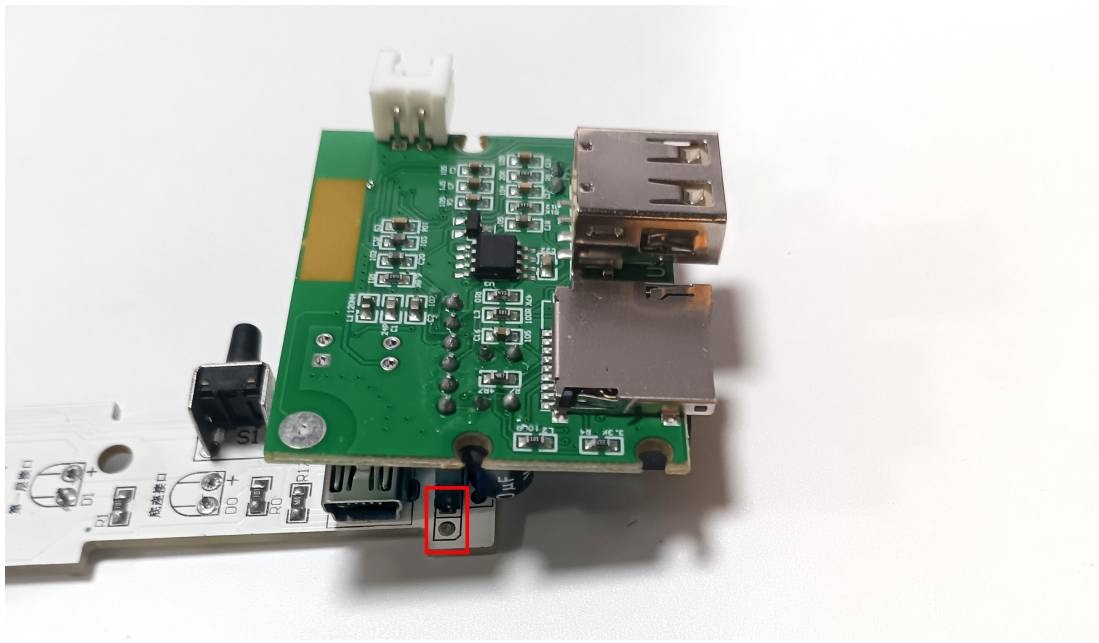
图35

图36

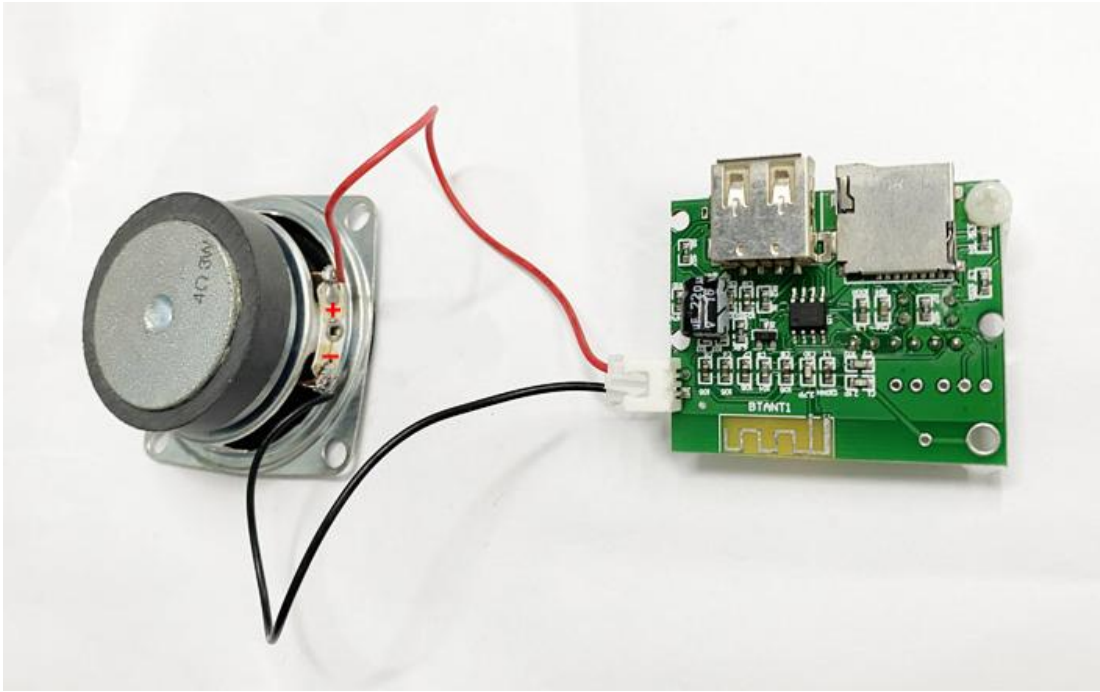
Soldering Bluetooth module and speaker

The Bluetooth module is soldered to the board as shown below, note the position as follows





Then solder the red and black wires of the terminal wire to the speaker, the red wire of the terminal wire is positive and the black wire is negative, corresponding to the positive and negative poles of the speaker soldering, and then insert the terminals into the terminal block of the Bluetooth module



Finally, the speakers can be screwed into the housing part.