

Tools you need:

- ①Iron (30W)
- ②Solder wire
- ③Multimeter
- ④Tweezers
- ⑤Wire cutters

Precautions:

- ①Check part values & quantities against part list
- ②Always meter resistor values before soldering
- ③Understand all part polarities and orientations

SL-88

Audio spectrum LEDkit instructions

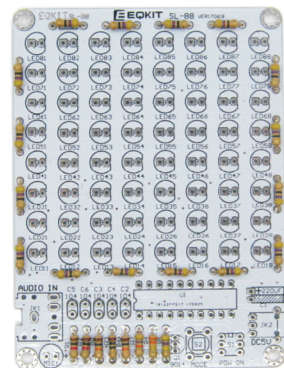
Rev. 1.0

July 18, 2017

Produced by YiQi

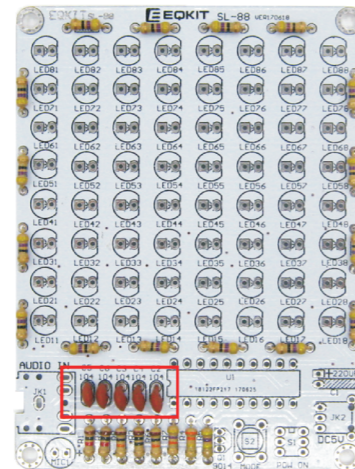
1. Install RES:

47ohm into RY1--RY8, RX1--RX8
Please install the other resistors according to the resistance on the circuit board



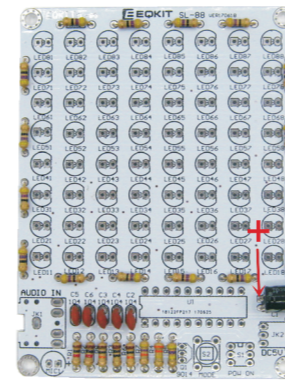
2. Install Cap.

104pF into C2--C6.



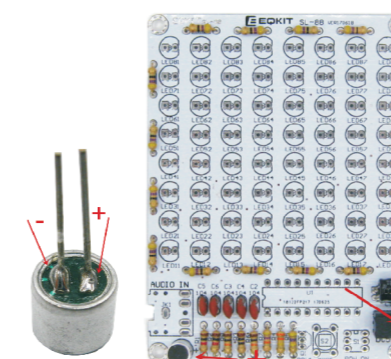
3. Bend the 220UF electrolytic capacitor

Install to C1. Distinguish between positive and negative poles



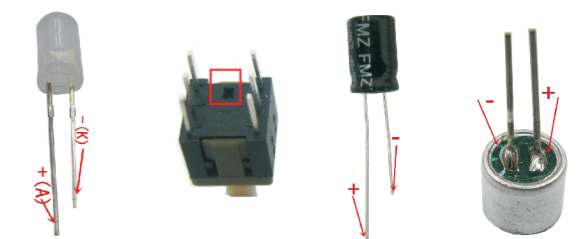
4. Power jack into JK2. MIC into MIC1

Look out! The negative electrode of the MIC is connected to the metal case
The positive pole is not connected



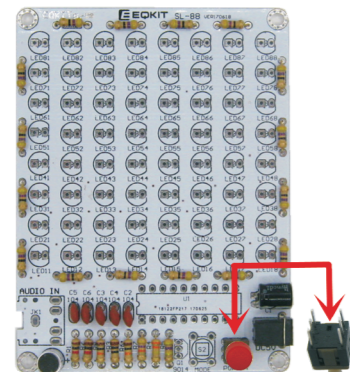
Warning:

Polar element: LED Electrolytic capacitor
Electret microphone etc. The positive electrode shall be soldered to the square pad



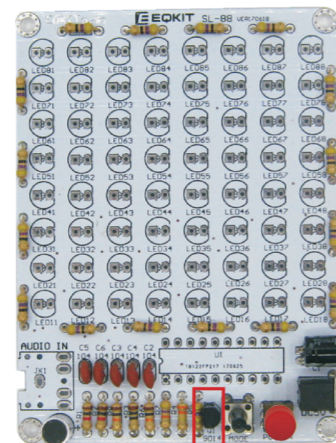
5. Install S1 and S2:

Tact Switch to S2
power Switch to S1
Then install the switch cap for the S1

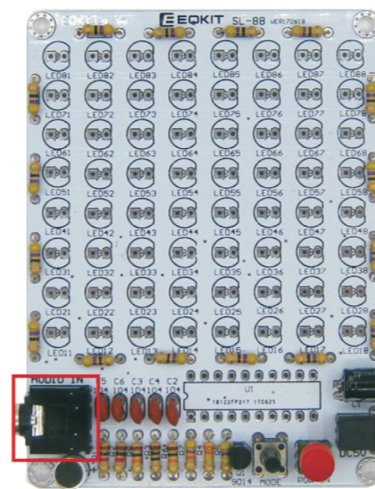


6. Install triode:

S9014 into Q1

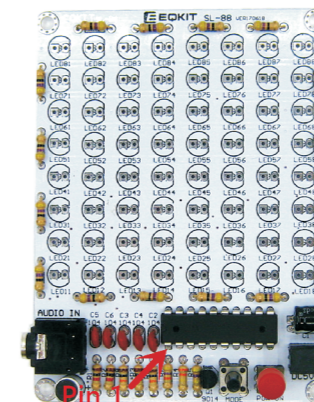


7. Audio input into JK1



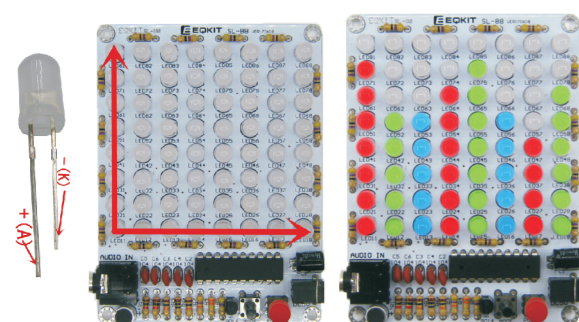
8. Solder the integrated circuit to the U1.

Pay attention to the direction of the integrated circuit



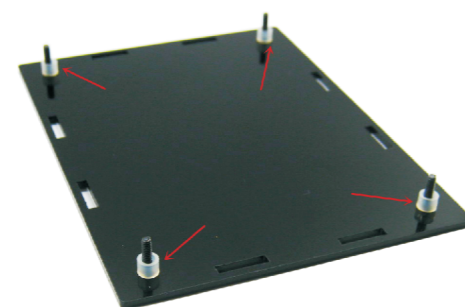
9. Install LED:

The long pin is the positive
When installing, please keep each transverse or each vertical one in the same color :

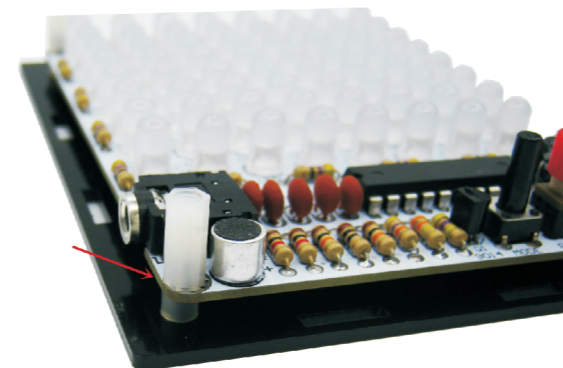


10. Install housing:

Tear off the panel protection paper
Load four long screws on the base plate
Then insert the 3mm spacer into the screw

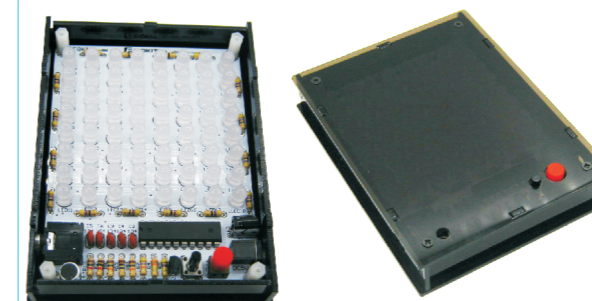


11. Load the PCB and secure the PCB with four double nylon columns



12. Load the surrounding panel.

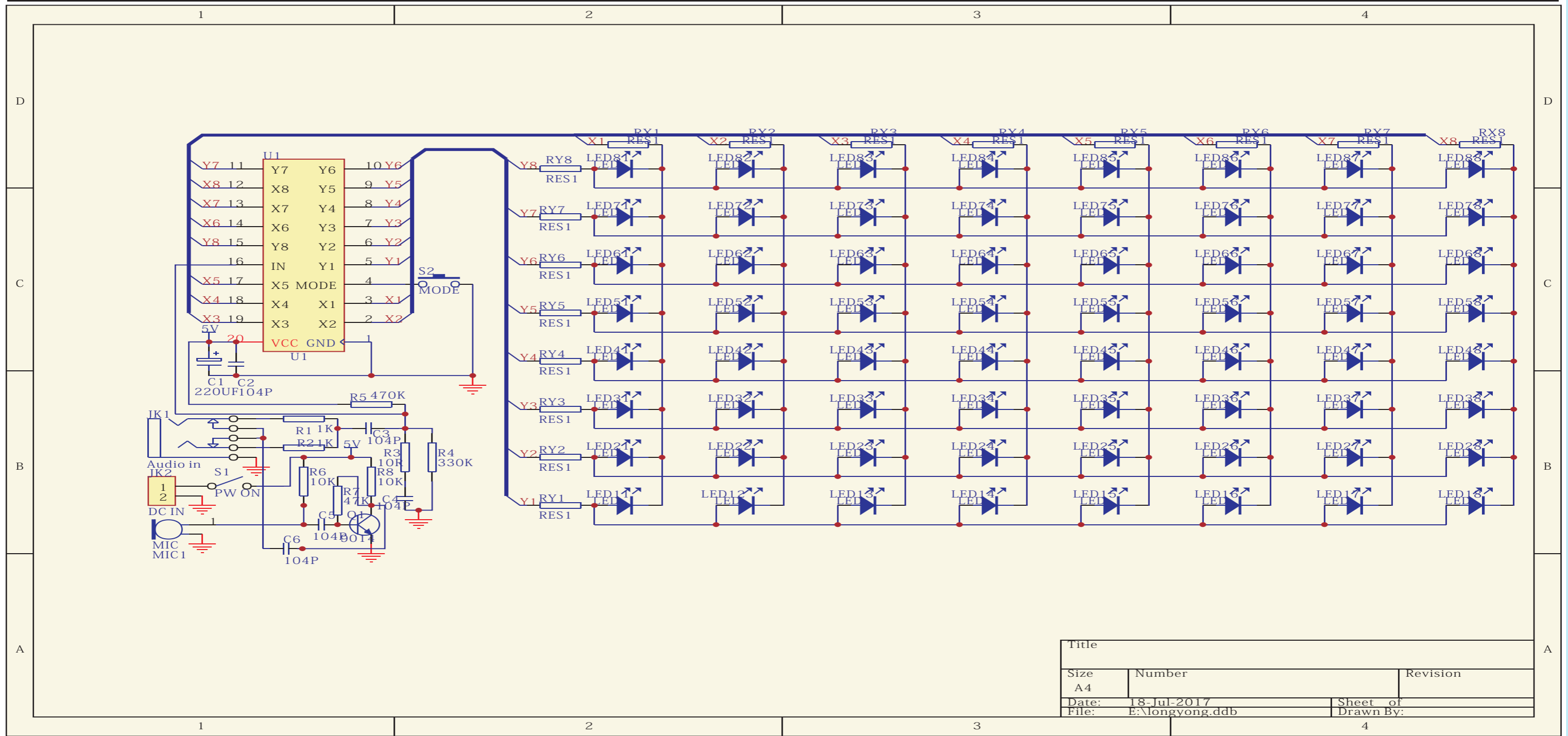
Then load the top transparent panel and lock with a shorter screw



SL-88 Audio spectrum component list

NO.	Name	Mode	QTY
R3	R. E. S	10R	1
RX1-RX8, RY1-RY8	R. E. S	47R	16
R1, R2	R. E. S	1K	2
R6, R8	R. E. S	10K	2
R7	R. E. S	47K	1
R4	R. E. S	330K	1
R5	R. E. S	470K	1
C2-C6	Cap	104pF	5
C1	E. Cap	220uF	1
Q1	Triode	S9014	1
U1	I. C	WD1088	1
MIC1	Electret microphone	F5H6	1
S2	Contact switch	6*6*13	1
S1	Power SW	Self-locking switch	1
S1	Switch cap	6*5	1
LED11-LED88	LED	5MM Green	24+1
LED11-LED88	LED	5MM Red	24+1
LED11-LED88	LED	5MM Blue	16+9
JK2	Power input socket	3.5mm	1
JK1	Audio input socket	5P	1
---	SL-88 PCB	89*67mm	1
---	USB to DC Line	0.8M	1
Free give	Audio input line	1.2M	1
Free give	One in two audio line	22CM	1
Choose to buy	Shell	A set black*2mm	1

Button mode	Schema Specification	Screen display	Function description
Short press	Refresh rate	S1	Slowest refresh rate
		S2	Moderate refresh rate
		F	Refresh rate fast
Long press	Signal sensitivity	L	Low sensitivity
		H	High sensitivity
		M	Medium sensitivity
hold KEY, power on	Test model	Every LED is bright	Test the brightness and circuitry of the LED
Remarks: 1.Short press time not more than 1 second, Long press time is 2 seconds.			
2.Press and hold the "MODE" key.Then switch on the power to test model.			



Title		
Size	Number	Revision
A4		
Date:	18-Jul-2017	Sheet of
File:	E:\longyong.ddb	Drawn By: