

### 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

#### 1. Before starting installation:

Please read the note on the right to distinguish the polarity of the good components.

Start installation:

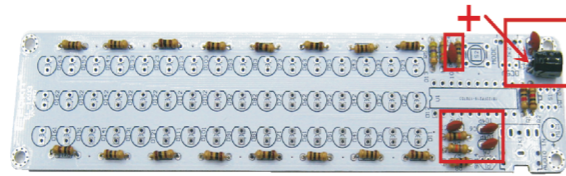
100 ohm into RX1--RX16.

Other resistors refer to the PCB mark



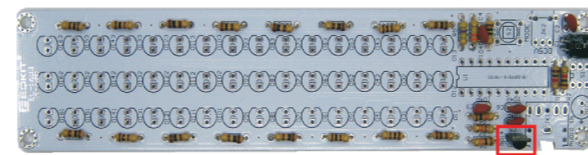
#### 2. Install Cap:

Install the 104PF capacitor to the C2--C6. Bend the 220UF electrolytic capacitor Install to C1. Distinguish between positive and negative poles



#### 3. Install triode:

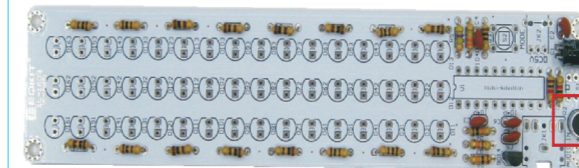
Install S9014 to Q1



#### 4. Install Electret microphone :

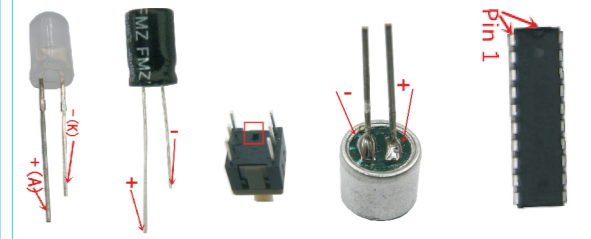
Look out!

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



### Warning:

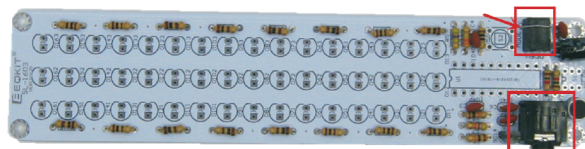
Polar element: LED Electrolytic capacitor  
Electret microphone etc. The positive electrode shall be soldered to the square pad



#### 5. Install the DC input and audio input socket

DC input socket Install JK2.

audio input socket Install Jk1.



#### 6. Install S1 and S2:

Tact Switch to S2

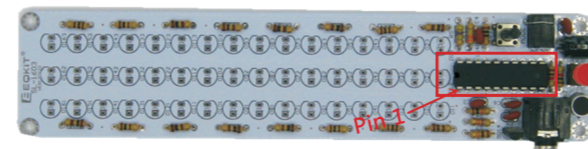
power Switch to S1

Then install the switch cap for the S1



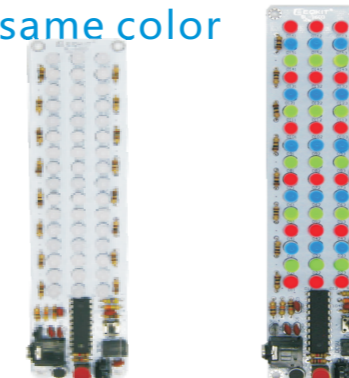
#### 7. Install I.C :

Solder the integrated circuit to the U1. Pay attention to the direction of the integrated circuit



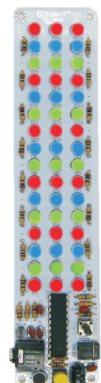
#### 8. Install LED

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



#### 9. Check the polarity of LED

Electrolytic capacitor  
Integrated circuit Triode and  
Electret microphone element  
Finally, switch on the power

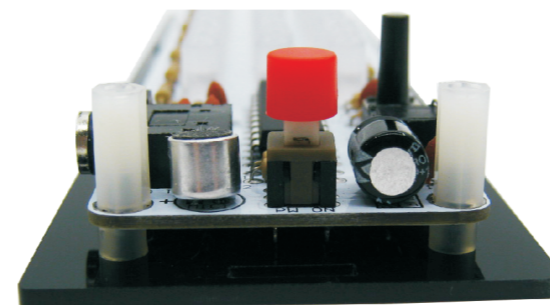


#### 10. Install housing:

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-1603 Audio spectrum component list

NO.	Name	Mode	QTY
R3	R.E.S	10R	1
RX1-RX16	R.E.S	100R	16
RL,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	104P	5
C1	E. Cap	220uF	1
U1	I. C	WD1603	1
S1	Power SW	Self-locking switch	1
S1	Switch cap	6*5mm	1
Q1	Triode	S9014	1
S2	Contact switch	6*6*13	1
MIC1	Electret microphone	6050	1
JK2	Power input socket	3.5MM	1
JK1	Audio input socket	Stereo 5Pin	1
—	USB to DC Line	80CM	1
—	PCB	158mm*3.5mm	1
D11-D163	LED	5mm Red	15+5
D11-D163	LED	5mm Green	15+5
D11-D163	LED	5mm Blue	15+5
Free give	Audio input line	1.2M	1
Free give	One in two audio line	22M	1
Choose	Shell	A set black*2mm	1

## “MODE” Key Setting method :

1 ) After the power is on, it enters the normal working state , Press and hold the "MODE" key and enter after 2 seconds to Mode selection

Short press Content selection:

Breathing pattern : The 8 line LED lights up

Short press “MODE” Key to Fixed mode

4 seconds without key operation, automatic exit

Breathing pattern:

The stronger the audio signal, the brighter the LED

Fixed mode:

Brightness adjustable.

There are 16 levels of brightness

Press and hold the "MODE" key.

Turn on the power into Test mode

