

# DIY Rotating Globe Soldering Kit

## I. Introduction

After completion, the project will present an effect resembling planets orbiting the Earth. The Earth itself will feature blue LED lights with adjustable brightness. On the elliptical PCB board, there will be white LED lights that will flash alternately, mimicking the rotation of planets. The base will include a motor, enabling the entire assembly to rotate together.

## II. Features:

- 1>.Brightness Adjustable
- 2>.Built-in 3 Music
- 3>.Rotating Stage
- 4>.Rotating Speed Adjustable



**Scan to Get the Detailed Instruction**

## III. Parameter:

- 1>.Work voltage: DC 5V
- 2>.LED Color:White/Blue
- 3>.Power Interface: DC-005
- 4>.SW1 Music Switch: Toggle to play 3 music in sequence. When turned off and restarted, the music will start playing from the beginning.
- 5>.SW2 Motor Switch: Toggle the switch, the stage begins to rotate.
- 6>.R1 Potentiometer: Controls the rotation speed.

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## IV. Component listing:

NO.	Component Name	PCB Marker	Parameter	QTY
1	STC8G1K08 microcontroller	U2	DIP-8	1
2	IC socket	U2	DIP-8	1
3	KT148A	U1	SOP-8	1
4	Circular speaker	BEEP+ BEEP-	8ohm 1W-23MM	1
5	JS-30 DC gear reduction motor	motor+ motor-	6V100rpm	1
6	RV09-type potentiometer	R1	1K	1
7	SS-12F44 toggle switch	S1 S2	SW1/SW2	2
8	Ceramic capacitor	C2 C3	104	2
9	Electrolytic capacitor	C1	16V 22UF	1
10	Metal Film Resistor	R2	47	1
11	3362 potentiometer	R3	10k	1
12	Metal film resistor	R4	10k	1
13	Light Emitting Diode - White	HE007-E	3mm	24
14	Light Emitting Diode - Blue	HE007-D	3mm	24
15	DC power plug socket	DC_5V	/	1
16	M3 Hex Nut	/	/	2
17	M3 Screw	/	PM3*5MM	13
18	M3 Screw	/	PM3*8mm	4
19	M3 brass standoff	/	M3*12mm	4
20	M3 brass standoff	/	M3*30mm	4
21	Brass Spring	/	0.4*4*10mm	2
22	PCB Blue	/	80mm*80mm*11mm	5

Note: Users can complete the installation according to the PCB silk screen and component list.