AK-79 Flashing LED Police PCB Car DIY Kit

1. Introduction:

AK-79 is a Red/Blue Automatic Flashing LED Police PCB Car Electronic Soldering DIY Kit. It is powered by 5V voltage from DC-002 interface and automatically flashing and change various lighting effects within Red and Blue LED. Simultaneously simulating the sound of police car horns.

It can not only be used as a DIY electronic welding kit that allows you to better understand the circuit and learn how to soldering, but also as a very suitable experimental workbench tool.

2. Feature:

- 1>.8 Red/Blue LED Automatic Flashing
- 2>. Switchable 3 LED Flashing Effect
- 3>. Switchable Fast and Snow Flashing Frequency
- 4>.Simulate Police Cars Sound
- 5>.Police Car Exterior Design
- 6>.Interesting DIY Manual Soldering

3. Parameter:

1>.Work voltage: DC 5V 2>.Display Color: Red/Blue 3>.Power Type: DC-002

4>.Work Temperature:-40 °C ~85 °C 5>.Work Humidity:5%~95%RH 6>.Size(Installed):89*60*23mm

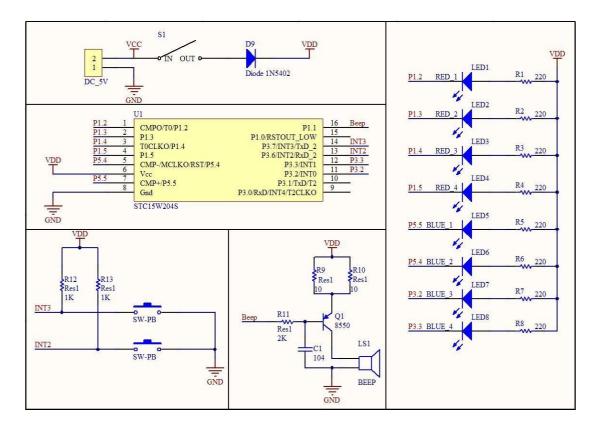
4. Use Method:

- 1>. Turn on the power switch S1 and the LED/Buzzer will automatically enter the working state.
- 2>.Switch LED Flashing Effect by press S2_MOD button.
- 3>.Switch LED Flashing Frequency by press S3_FRE button.

5. Component Listing:

NO.	Component Name	PCB Marker	Parameter	QTY
1	STC15W204S Controller	U1	DIP-16	1
2	IC Socket	U1	DIP-16	1
3	Red LED	D1-D4	5mm	4
4	Blue LED	D5-D8	5mm	4
5	Passive Buzzer	Веер	5V	1
6	1N5819 Schottky Diode	D9	DO-41	1
7	S8550 Transistor	Q1	TO-92	1
8	SS-12F44 1P2T Toggle Switch	S1	5Pin	1
9	Black Button	S2,S3	6*6*7mm	2
10	Button Cap	S2,S3	6*6mm	2
11	Ceramic Capacitor	C4	0.1UF 104	1
12	Metal Film Resistor	R12,R13	1K	2
13	Metal Film Resistor	R1-R8	220ohm	8
14	Metal Film Resistor	R9,R10	10ohm	2
15	Metal Film Resistor	R11	2K	1
16	DC-002 Power Socket	DC_5V	3.5*1.3mm	1
17	USB to DC002 Power Wire	DC_5V	60cm	1
18	Black PCB Circuit Board	/	89*60mm	1
Note:Users can complete the installation according to the PCB silk screen and component list.				

6. Schematic Diagram:



7. Application:

- 1>. Training welding skills
- 2>.Student school
- 3>.DIY production
- 4>.Project Design
- 5>. Electronic competition
- 6>.Gift giving
- 7>.Crafts collection
- 8>.Home decoration
- 9>.Souvenir collection
- 10>.Graduation design
- 11>.Holiday gifts

8. Installation Tips:

- 1>.User needs to prepare the welding tool at first.
 - 1.1>.Soldering iron (<50 Watt)
 - 1.2>.Rosin core ("radio") solder
 - 1.3>.Wire cutters
 - 1.4>.Wire strippers
- 2>.Please be patient until the installation is complete.
- 3>. The package is DIY kit. It need finish install by user.
- 4>. Soldering iron can't touch components for a long time(1.0s), otherwise damage the components.
- 5>.Pay attention to the positive and negative of the components.
- 6>. Strictly prohibit short circuit.
- 7>.User must install the LED according to the specified rules.Otherwise some LED will not light.
- 8>.Install complex components preferentially.
- 9>. Make sure all components are in right direction and right place.
- 10>.lt is strongly recommended to read the installation manual before starting installation!!!
- 11>.Please wear anti-static gloves or anti-static wristbands when installing electronic components.

9. Installation Steps(Please be patient install!!!):

