

3D Mini Christmas Tree Flashing DIY Kit

1.Introduction:

It is a simple mini Christmas tree DIY kit. Three different PCB are combined into a 3D stereo Christmas tree model. It can be powered by a CR2032 battery and can be free from the power supply.

2.Feature:

- 1>.Mini PCB Christmas tree design
- 2>.12pcs 3mm RGB LED Automatic Flashing
- 3>.DIY manual soldering

3.Parameter:

- 1>.Work Voltage:DC 3V
- 2>.Power Type: CR2032
- 3>.LED color: RGB
- 4>.Work Temperature:-40℃~85℃
- 5>.Work Humidity:5%~95%RH
- 6>.Size(Installed):58*37*37mm

4.Component Listing:

- 1>.2pcs 330ohm Metal Film Resistor
- 2>.2pcs 33Kohm Metal Film Resistor
- 3>.2pcs TO-92 S9014 Transistor
- 4>.2pcs 22uF Electrolytic Capacitor
- 5>.12pcs 3mm RGB LED
- 6>.1pcs CR2032 Battery
- 7>.1pcs CR2032 Battery Socket
- 8>.3pcs PCB Circuit Board

5.Application:

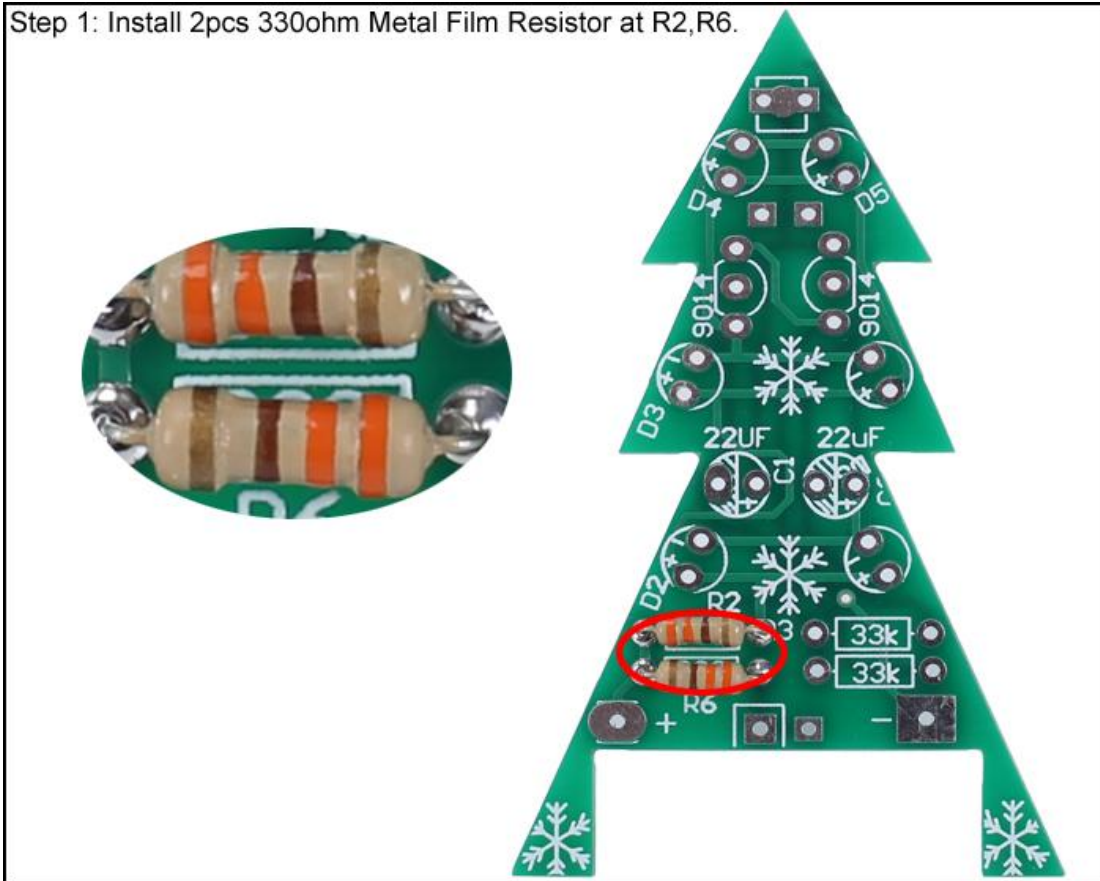
- 1>.Christmas decorations Training welding skills
- 2>.Training welding skills
- 3>.Student school
- 4>.Project Design
- 5>.Electronic competition
- 6>.Gift giving
- 7>.Crafts collection
- 8>.Home decoration
- 9>.Souvenir collection
- 10>.Graduation design
- 11>.Holiday gifts

6.Installation Tips:

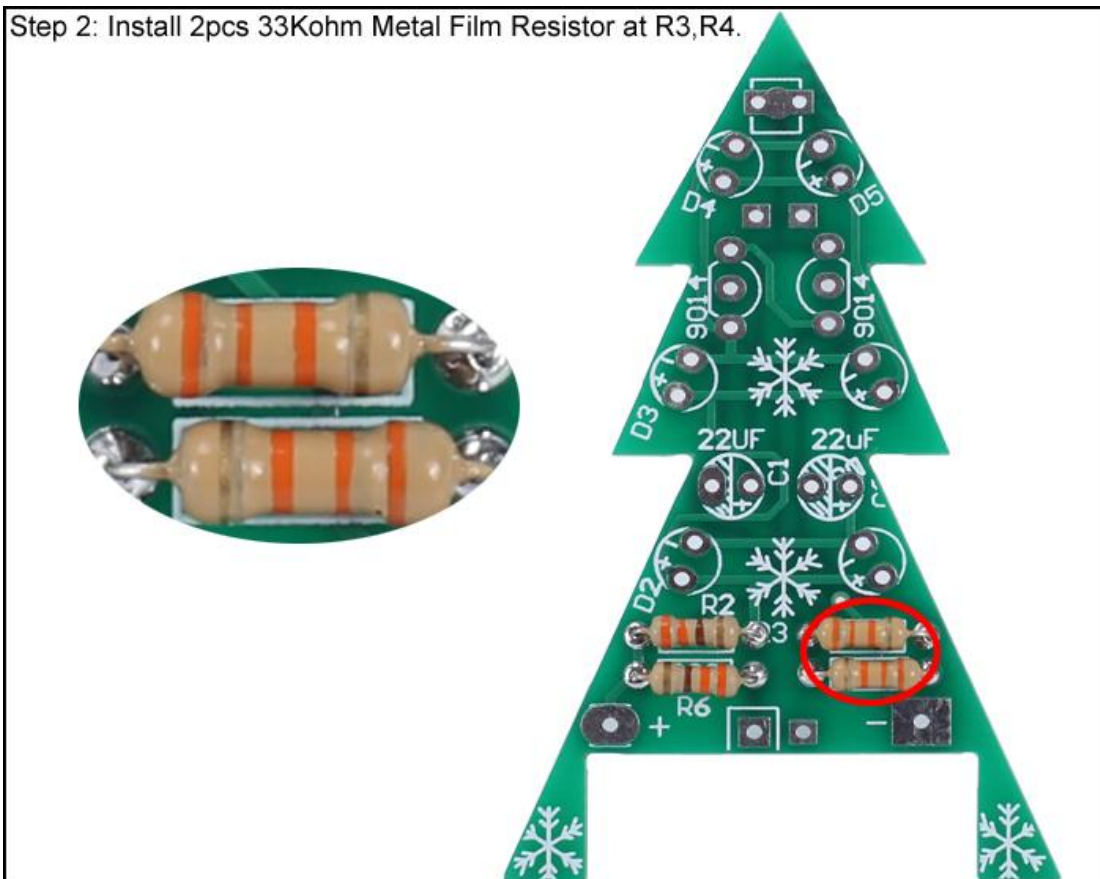
- 1>.User needs to prepare the welding tool at first.
 - 1.1>.Soldering iron (<50 Watt)
 - 1.2>.Rosin core ("radio") solder
 - 1.3>.Wire cutters
 - 1.4>.Wire strippers
 - 1.5>.Screwdriver
- 2>.Please be patient until the installation is complete.
- 3>.The package is DIY kit.It need finish install by user.
- 4>.The soldering iron can't touch the components for a long time(1.0 second), otherwise it will 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>.It 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.

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

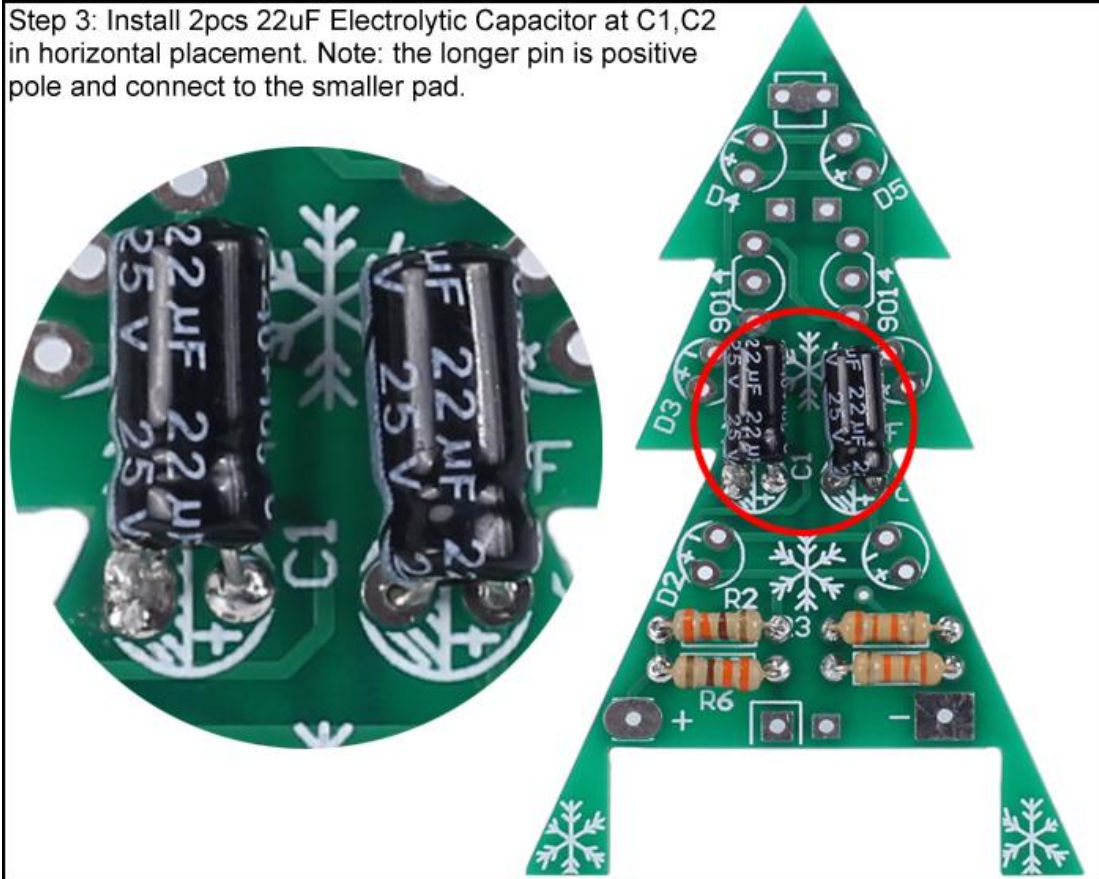
Step 1: Install 2pcs 330ohm Metal Film Resistor at R2,R6.



Step 2: Install 2pcs 33Kohm Metal Film Resistor at R3,R4.



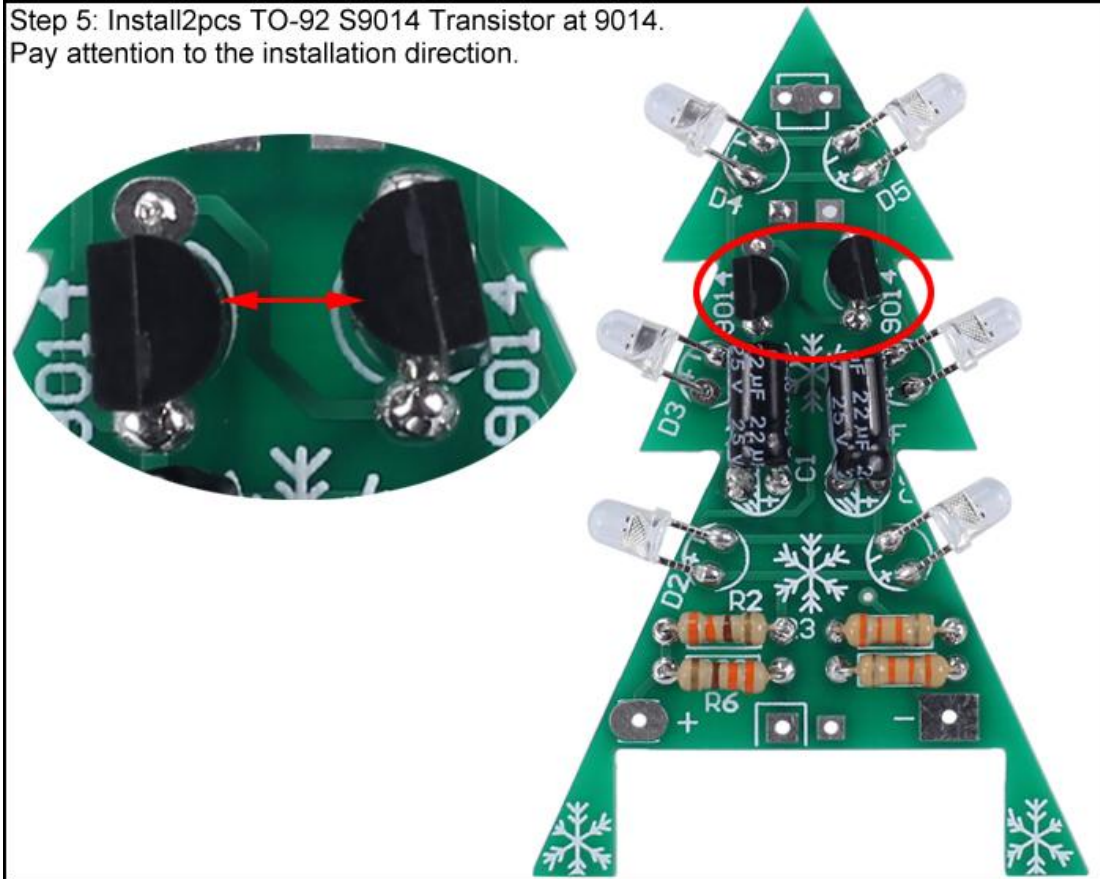
Step 3: Install 2pcs 22uF Electrolytic Capacitor at C1,C2 in horizontal placement. Note: the longer pin is positive pole and connect to the smaller pad.



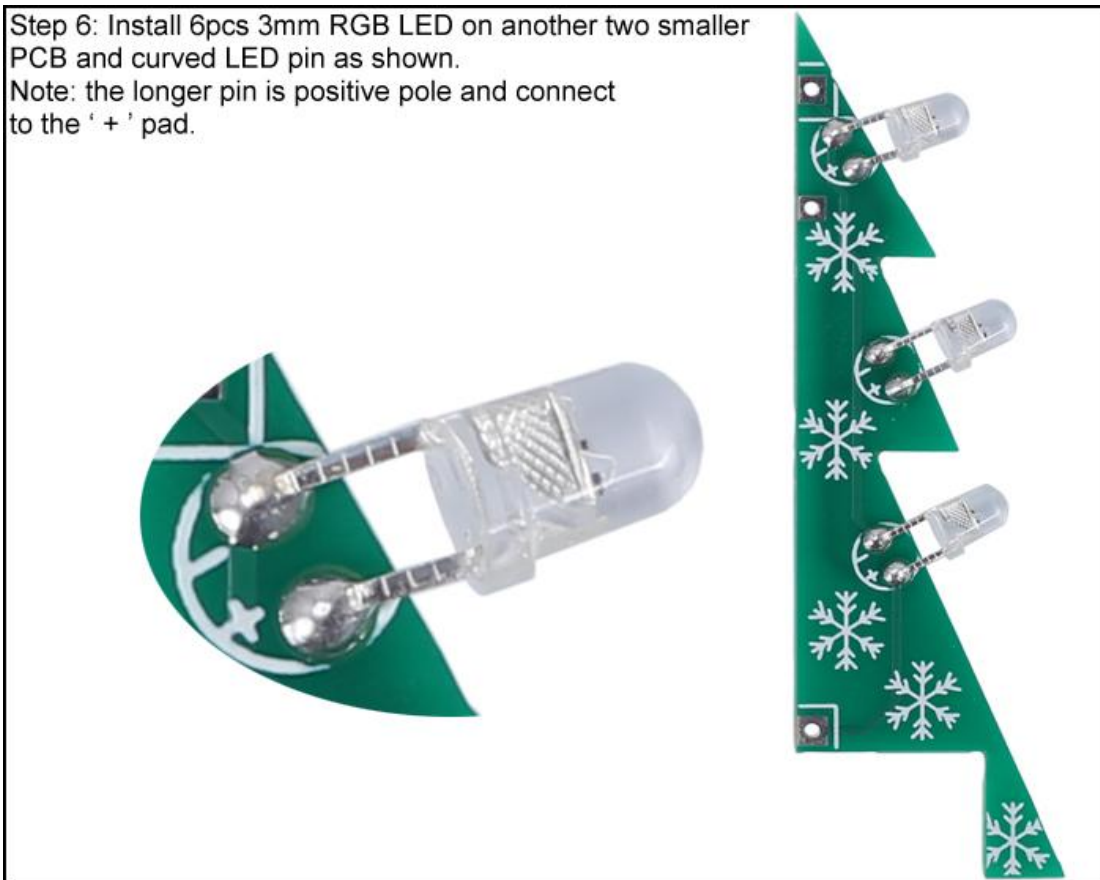
Step 4: Install 6pcs 3mm RGB LED at D1-D6 and curved LED pin as shown. Note: the longer pin is positive pole and connect to the '+' pad.



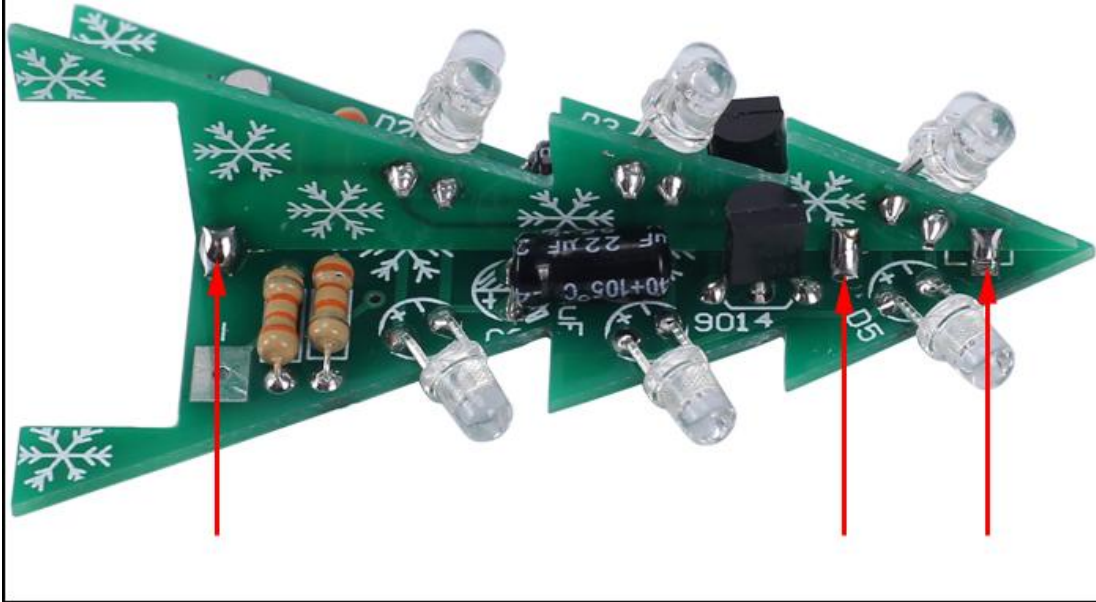
Step 5: Install 2 pcs TO-92 S9014 Transistor at 9014. Pay attention to the installation direction.



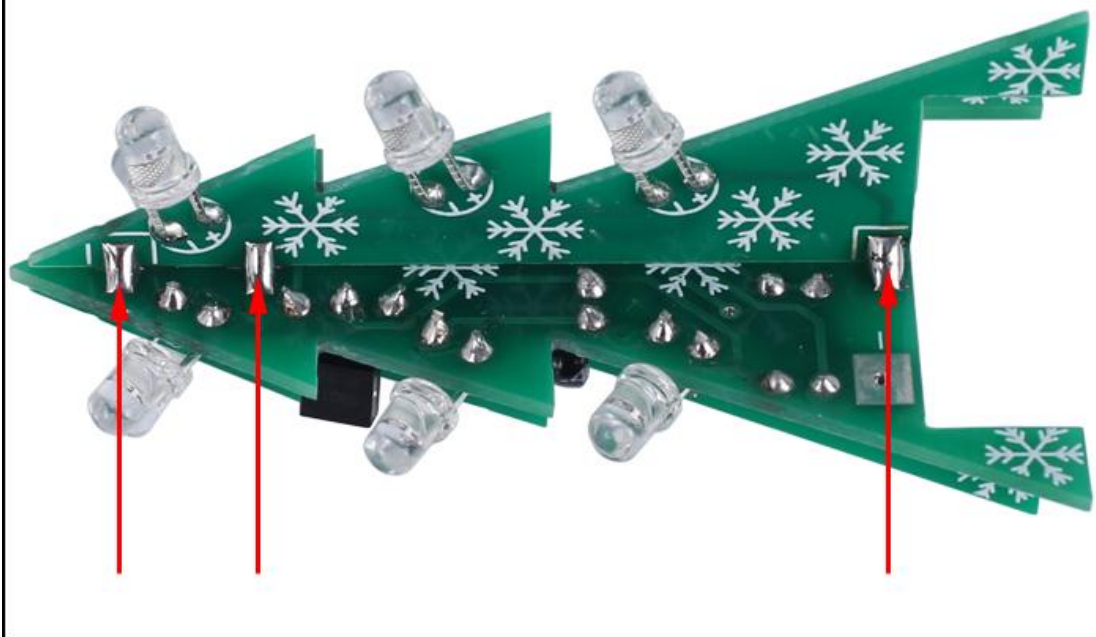
Step 6: Install 6 pcs 3mm RGB LED on another two smaller PCB and curved LED pin as shown. Note: the longer pin is positive pole and connect to the '+' pad.



Step 7: Splicing two PCB and fix with 3 pads. Be sure to align the two PCB.



Step 8: Splicing another smaller PCB and fix with 3 pads. Be sure to align three PCB.



Step 9: Install 1pcs CR2032 Battery Socket.
Pay attention to the positive and negative poles.



Step 10: Install 1pcs CR2032 battery as shown. Note: The positive electrode of the battery faces outward.

