

3D Mini Xmas Tree Music Player DIY Kit

1.Introduction:

It is a mini Christmas tree DIY kit. Three different PCB are combined into a 3D Christmas tree model. Built-in 7 LED gradient modes and 7 different Christmas music. It can be powered by a button battery and can be free from the power supply.

2.Feature:

- Mini PCB Christmas tree design.
- 3 different PCB combinations with snowflake patterns.
- 7 different Christmas music.
- 7 kinds LED flashing effect.
- Automatically switch LED flashing status by re-start power switch.
- > Automatically switch Christmas music by re-start music switch.
- > ON/OFF Christmas music playing.

3.Parameter:

- 1>.Work Voltage:DC 6V
- 2>. Power Type: CR2025 or CR2025 Battery (NOT Included)
- 2>.Work Temperature:-40°C~85°C
- 3>.Work Humidity:5%~95%RH
- 4>.Size(Installed):51*49*64mm

4. Music:

- 1>.I wish you a merry Christmas
- 2>.Santa Claus Is Coming To Town
- 3>.When a child is born
- 4>.O Christmas Tree
- 5>.It Came Upon A Midnight Clear
- 6>.Joy To The World
- 7>.Jingle Bells

5.Use Methods:

- 1>.Install 2pcs CR2025 or CR2025 batteries.
- 2>.Turn ON/OFF the bottom Toggle Switch can turn ON/OFF work power, and switch next LED Flashing Status and next music at the same time.
 - 3>. Turn ON/OFF the another Toggle Switch can turn ON/OFF music and switch next music.

6.Component Listing:

- 1>.1pcs DIP-16 STC8G1K17 IC Controller
- 2>.1pcs S9012 2T1 SOT-23 Transistor
- 3>.1pcs Active Buzzer
- 4>.2pcs Toggle Switch
- 5>.4pcs SMD 0805 Red LED
- 6>.4pcs SMD 0805 Green LED
- 7>.4pcs SMD 0805 Yellow LED
- 8>.1pcs SMD 0805 472 4.7Kohm Resistor
- 9>.4pcs SMD 0805 471 470ohm Resistor
- 10>.1pcs CR2032 Battery Socket

11>.2pcs 4Pin Male Pin

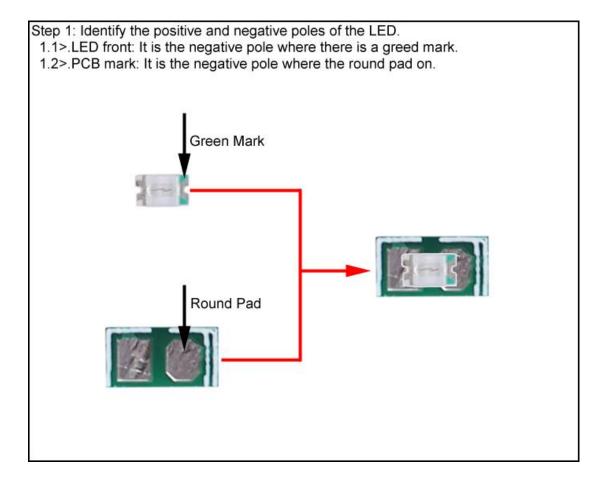
12>.3pcs PCB Circuit Board

Note: It does not include batteries, users need to prepare their own batteries

7.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 soldering iron can't touch the components for a long time(1.0 second), otherwise it will damage the components.
 - 4>.Pay attention to the positive and negative of the components.
 - 5>. Strictly prohibit short circuit.
 - 6>.User must install the LED according to the specified rules.Otherwise some LED will not light.
 - 7>.Install complex components preferentially.
 - 8>. Make sure all components are in right direction and right place.
 - 9>.It is strongly recommended to read the installation manual before starting installation!!!
 - 10>. Please wear anti-static gloves or anti-static wristbands when installing electronic components.

8.Installation Steps (Please be patient):

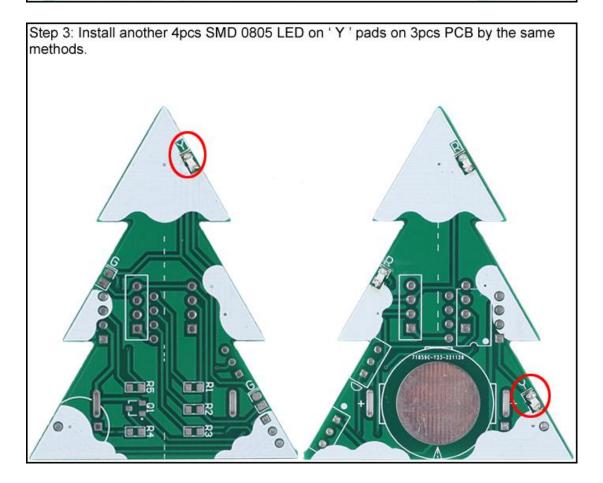


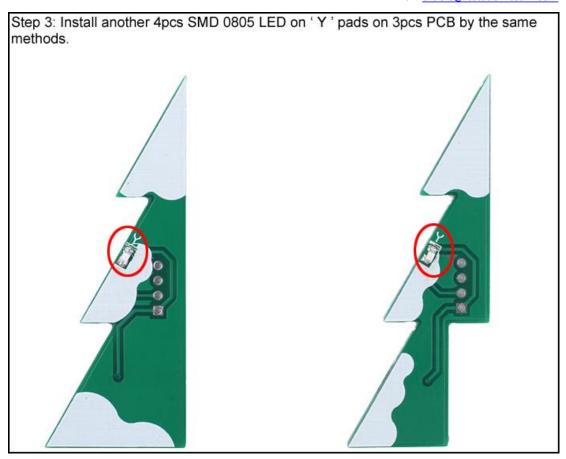
Step 2: Install any 4pcs SMD 0805 LED on 'R' pads on 3pcs PCB. You can choose to install in any of the three LED colors. Tips:

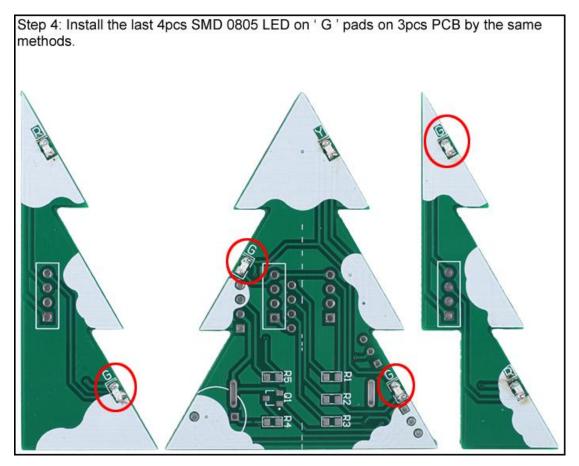
- 2.1>.Place tin on one pad.
- 2.2>. Hold LED with tweezers, melt tin just now with a soldering iron at the same time.
- 2.3>. After aligning each pad and pin, use tweezers to place the capacitor on PCB.
- 2.4>.Remove iron and hold LED by tweezers for about 5 second to waiting for fix pin.

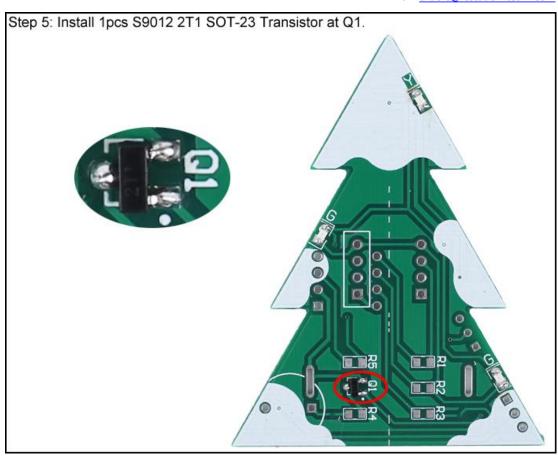
2,5>.Fix another pin and pad.

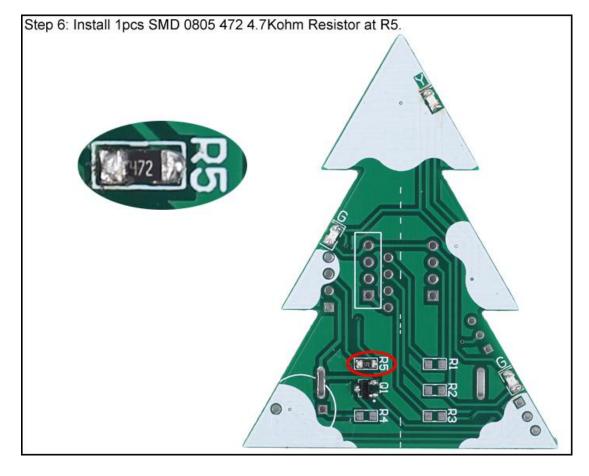


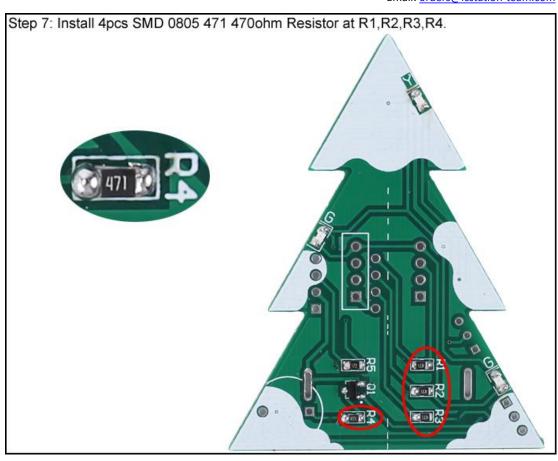


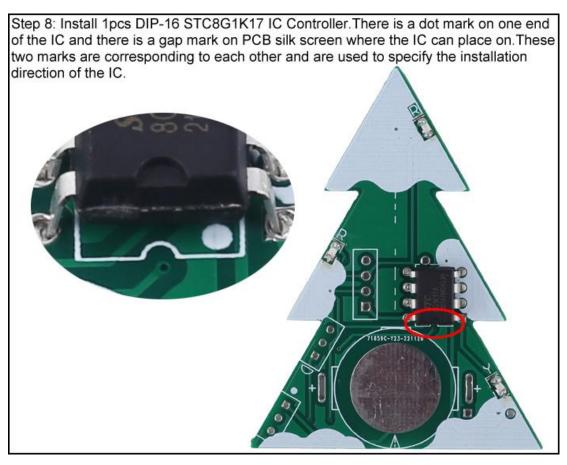


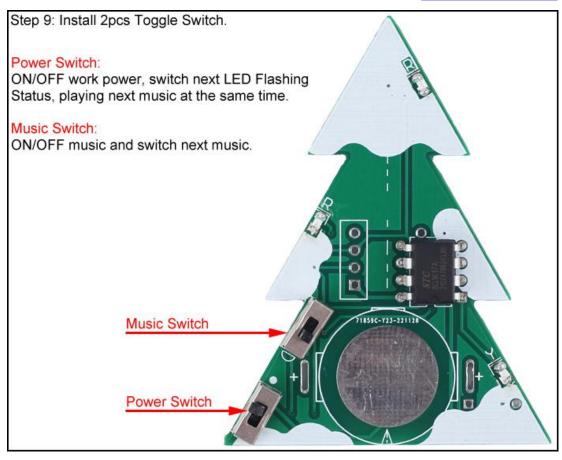


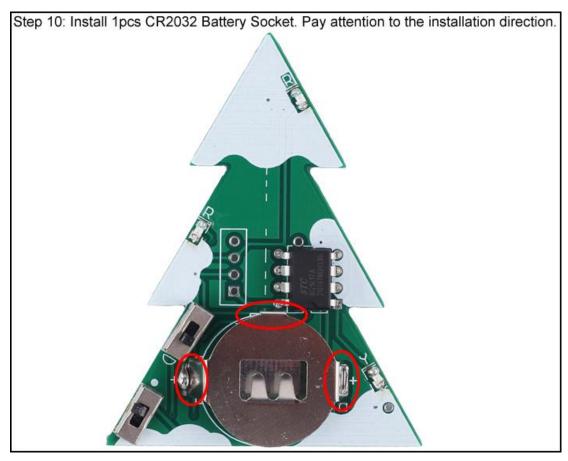




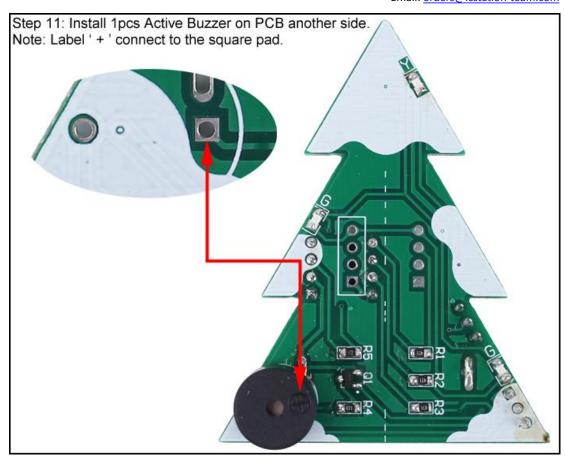


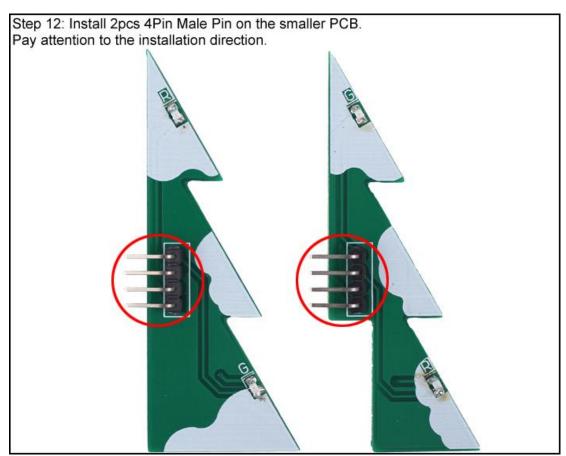


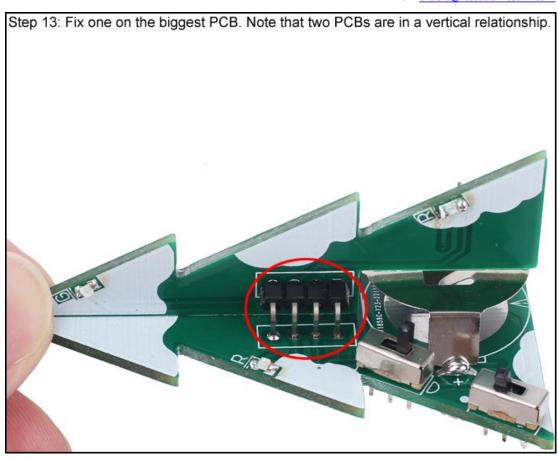


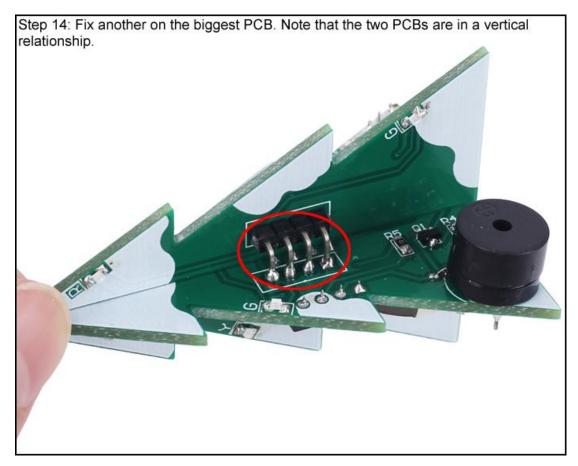


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Step 15: Install 2pcs CR2032 or CR2025 batteries as shown. Note: The positive electrode of the battery contacts the metal spring of the battery holder. It does not include batteries, users need to prepare their own batteries.