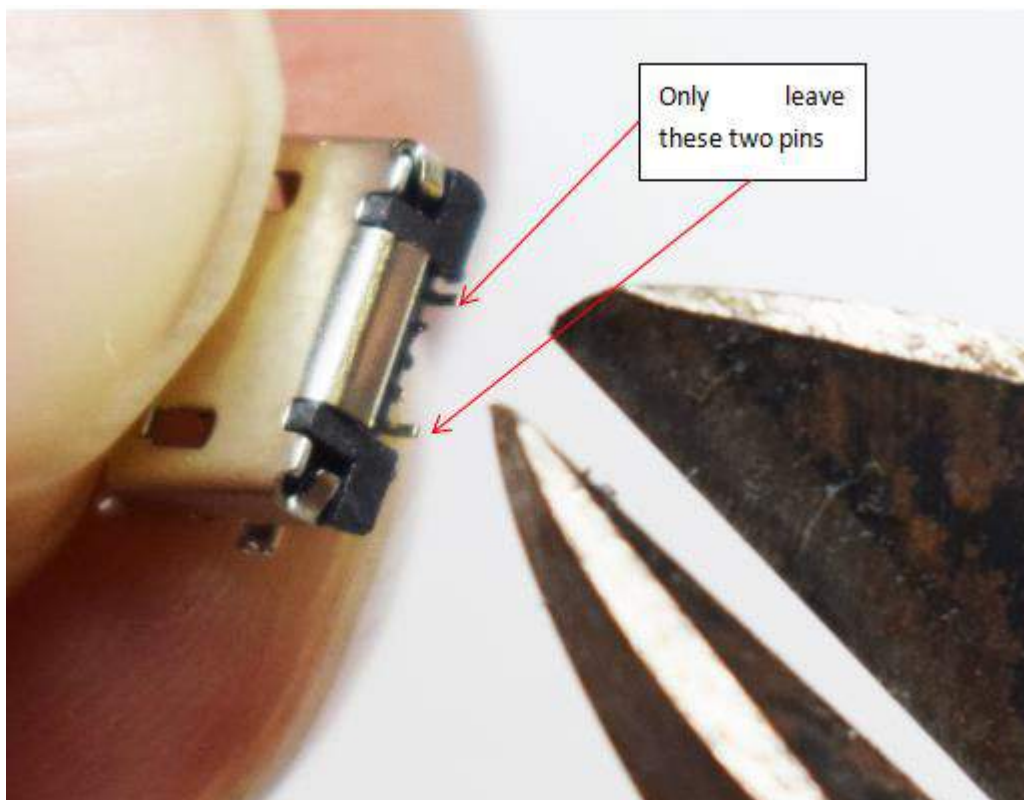# 3D LED Christmas Tree Kit

Contents of the kit.

-Please note that depending on the colour of the LEDs you choose this will vary

First of all, we need to solder the micro usb socket, we first cut off the middle three pins because these are for data transmission and we don't need them, leaving only the left and right pin, as shown below:

Only leave these two pins

Solder the micro usb socket in place following the image, if you do not want to use the micro usb socket to power your Christmas tree, then you can use the 5V power supply pads. The polarity is marked on the board.
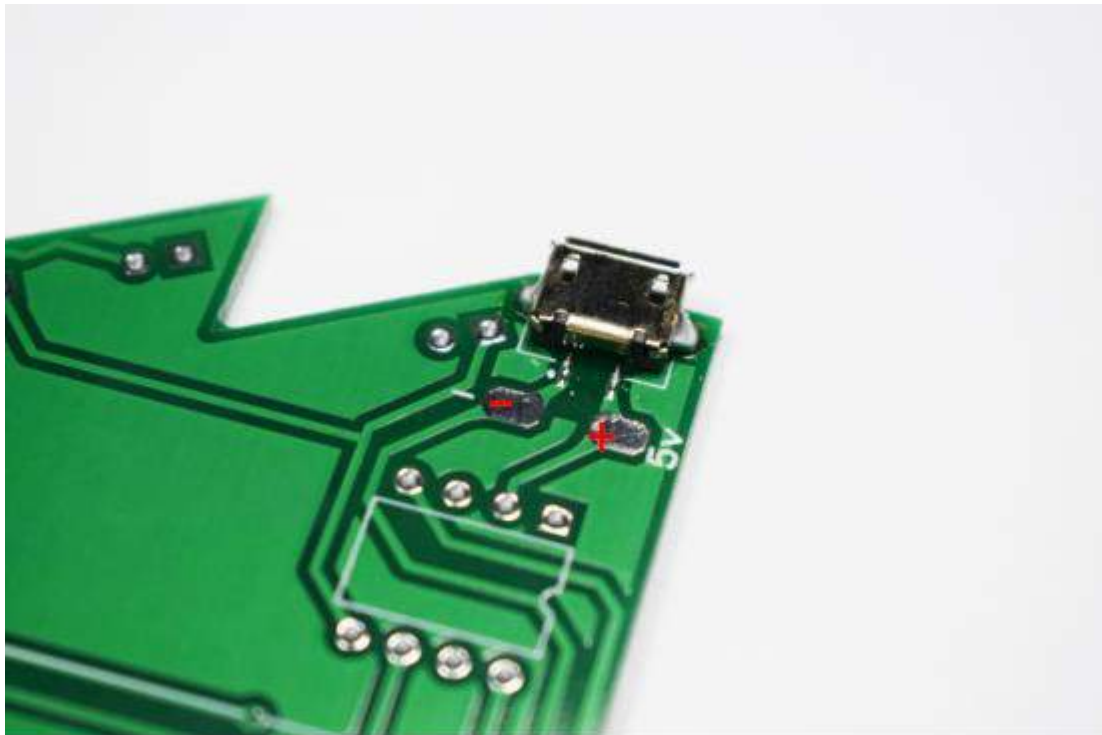
Now, the IC, please pay attention to the board marking to see the orientation. Then, the resistor and the switch, as shown below
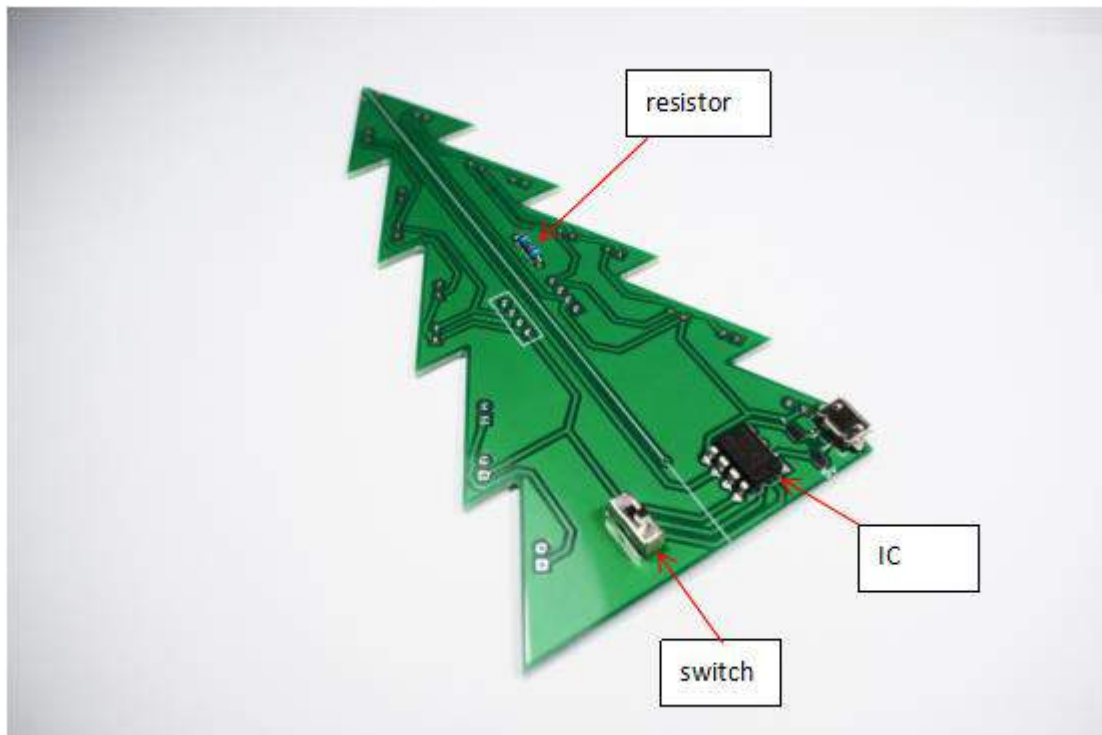
Then, to solder the LED, first we need to bend the legs in a 90° angle, more or less, as shown below. You can adjust this angle once you soldered it to the board.

Then insert the LED long leg corresponding to the square pad, remember not to solder the LED in the wrong direction!

Solder all the LEDs on both sides of the tree. Remember to adjust the position and angle of the LED to make sure all are more or less similar. This is how it should look like!

Then solder the tip of the LED tree, the soldering method is the same as before:

The other two parts have the same layout so you will need to repeat it twice.

Note: If you choose the multicoloured tree, you need to solder first one colour and then the other alternatively to create the pattern.
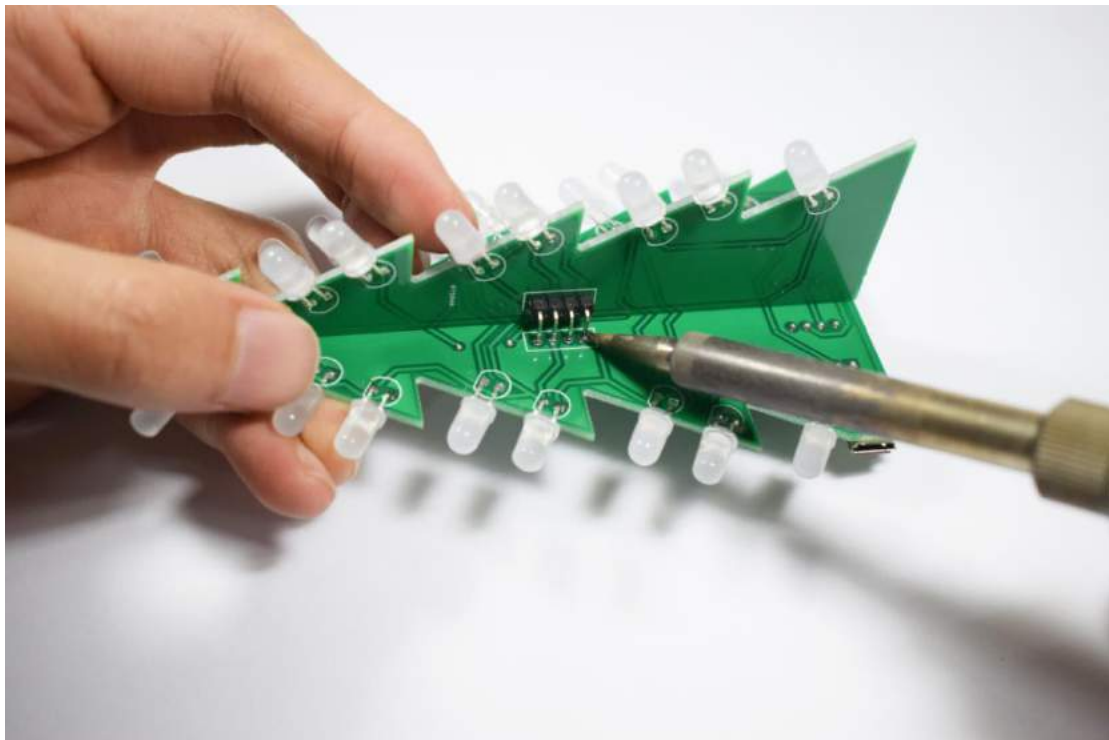

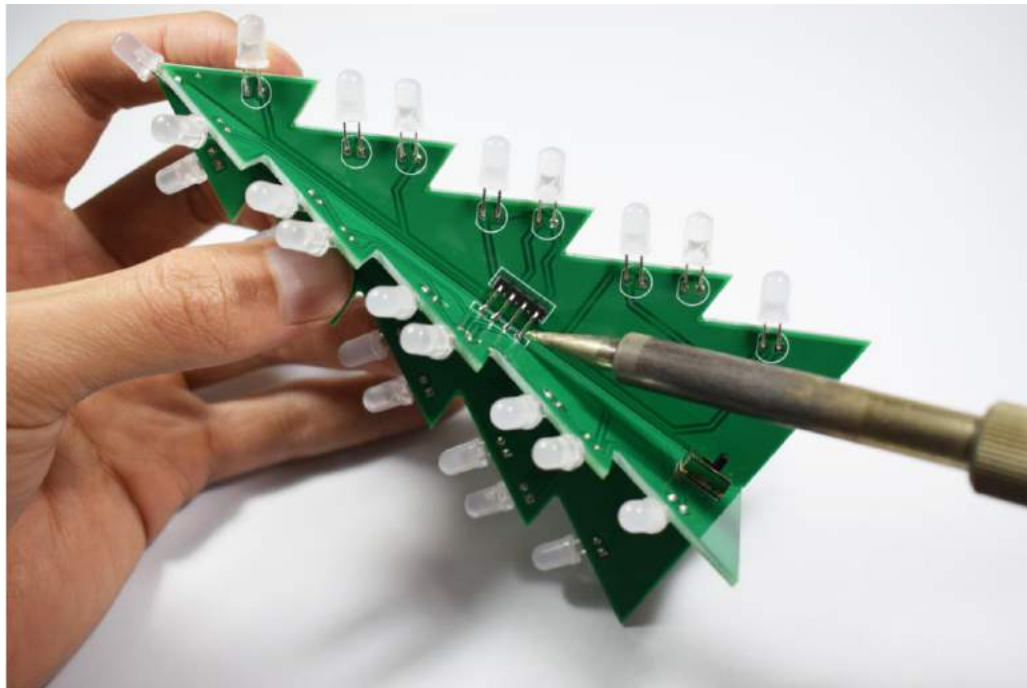This is an example of a red and blue tree

Next, we want to use the pin to connect the three PCB into a three-dimensional shape tree, first solder the shorter pin to one of the small parts of the tree.

Then, insert the other part of the legs in the main board. Adjust the position before soldering all the legs.

The other part needs to be soldered the exact same way.

Now, using an Android phone data cable (NOT INCLUDED) connected to the phone charger, the Christmas tree has 12 kinds of LED display, every time you switch it on and off, a different display effect will show: