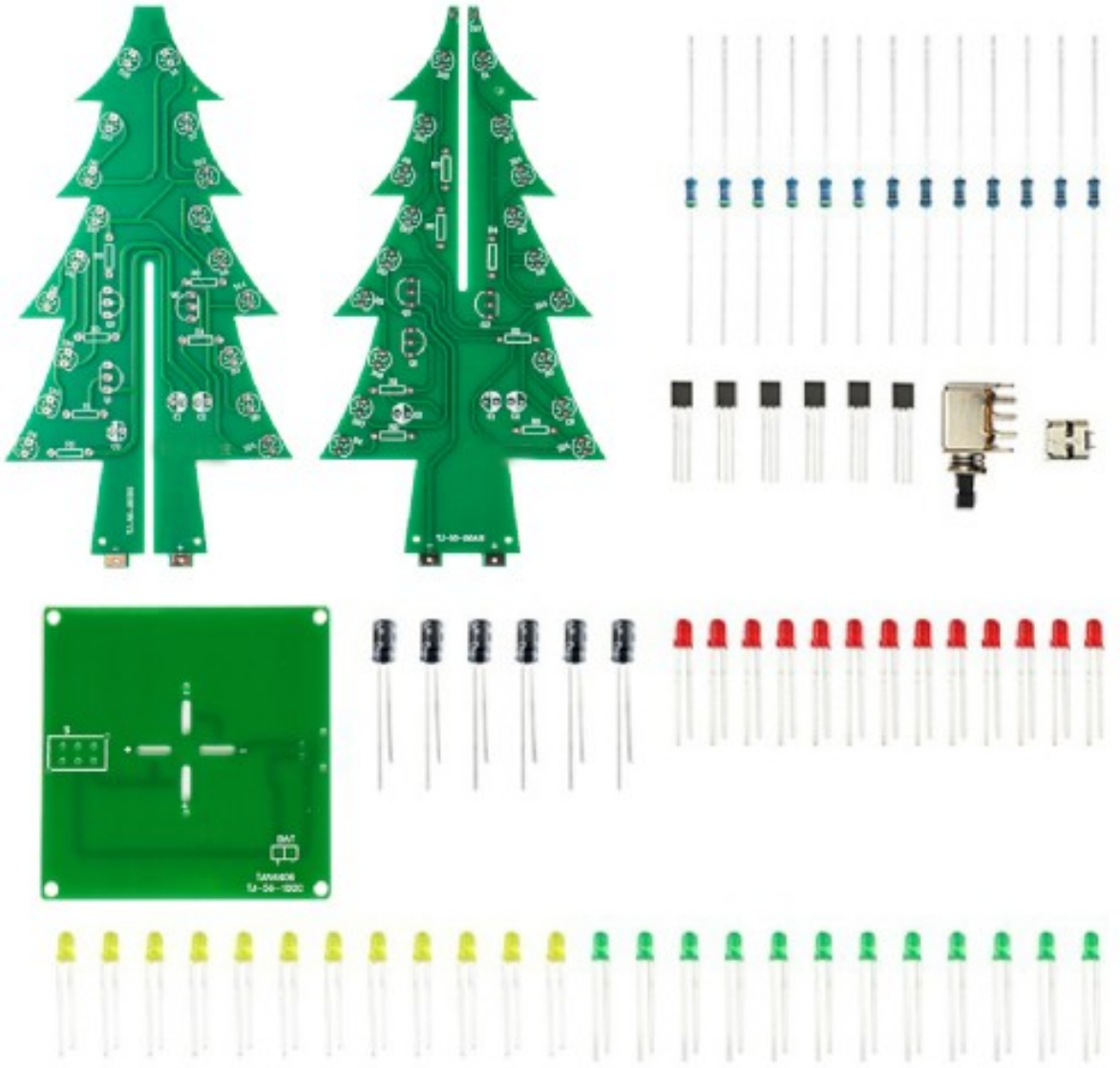
SOLDERING KIT CHRISTMAS TREE



Necessary tools:

Wire Cutters:	we recommend PGC-TR25 they are sharp and light
Twizzers:	we recommend PGC-00SA
Soldering iron:	CHN-SLD802 is budged solution, SLD-FAST-75W is professional solution
Soldering wire:	we recommend Solder-Wire-SAC0307-0-8

General tips for soldering:

1. Switch On the soldering iron, setup the working temperature to 350 C. Wait until the Soldering Iron reach this temperature – there is LED indicator which will pulse when the temperature is reach.

2. Before soldering clean the Soldering tip with wet sponge from the black resedues.

3. Never touch the heated soldering tip or body.

4. Do not leave the Soldering Iron unattended.

5. Be careful to not touch cables, table, cloths with the soldering iron heated body or tip.

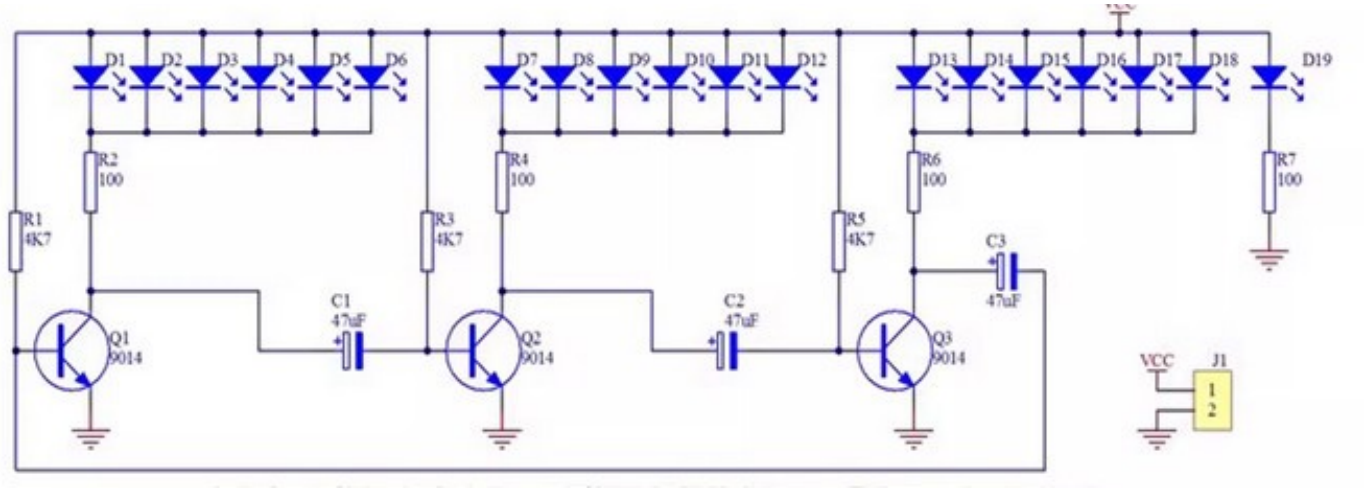
6. Place the electronic component on it’s place, watch out if there is polarity.

7. Touch the component pad which you want to solder and wait 3-4 seconds to heat up.

8. Feed a little from the soldering wire until the component lead is flooded with tin and it’s shinny and glossy.

9. If the soldering is not shinny but dull please re-solder with colophony.

SLD-KIT-XMASTREE Schematic:



Assembly instructions:

List of Components:

R1, R3, R5	4.7 K ohm	3+3 pcs	
R2, R4, R6, R7	100 ohm	4+4 pcs	
D1,D2,D3,D4,D5,D6,D19	red LED	7+7 pcs	with polarity!
D7,D8,D9,D10,D11,D12	green LED	6+6 pcs	with polarity!
D13,D14,D15,D16,D17,D18	yellow LED	6+6 pcs	with polarity!
Q1,Q2,Q3	NPN	3+3 pcs	with polarity!
C1,C2,C3	47uF	3+3 pcs	with polarity!
USB connector		1 pce	
SWITCH		1 pce	

Follow this sequence of soldering:

1. Solder all resistors to their places

2. Solder the red, green and yellow LEDs to their places, The longer led should be inserted in the square PCB pad.

3. Solder the transistor – follow the shape on the PCB, do not place with mirror!

4. Solder the capacitors the shorter leg go to the white filled pad.

5. Solder the USB and SWICH to the base PCB

6. Insert and solder the two tree PCBs to the base pay attention to + - marking!