

Tools you need:

- ① Iron (30W)
- ② Solder wire
- ③ Multimeter
- ④ Tweezers
- ⑤ Wire cutters

Precautions:

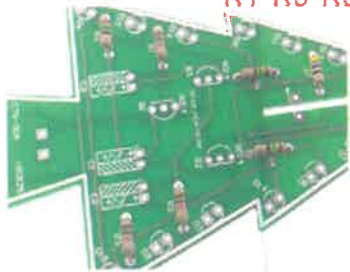
- ① Check part values & quantities against part list
- ② Always meter resistor values before soldering
- ③ Understand all part polarities and orientations

CTR-30C Flash Christmas tree kit instructions

Rev. 2.0 June 12, 2015 Produce by yiqi

1. Install Resistance

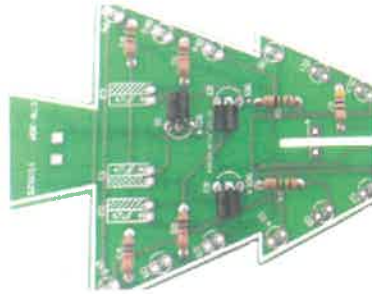
R1 R3 R5=10K



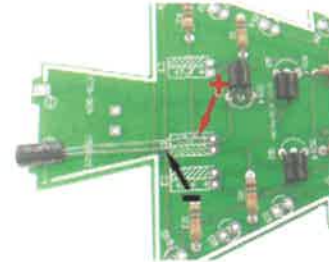
R2 R4 R6=150R,

R7=470R

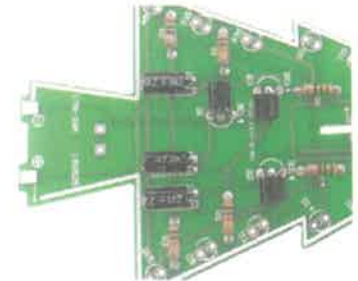
2. Install Triode
Pin bending 90 degrees



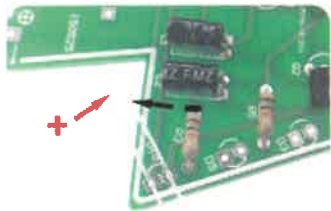
3. Install Electrolytic capacitor
Long pin is positive
Short pin is negative poles



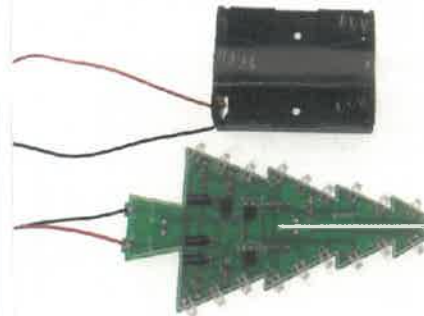
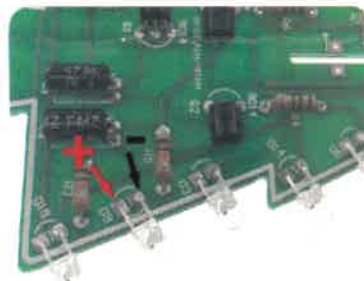
4. Install Electrolytic capacitor
Pin bending 90 degrees



5. Install LED
Long pin is positive
Short pin is negative poles



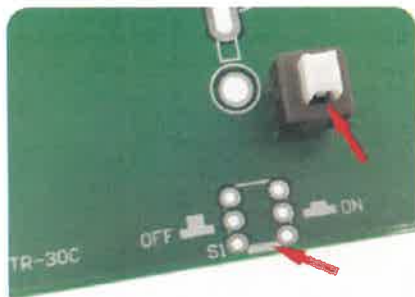
6. Install LED
Pin bending 90 degrees



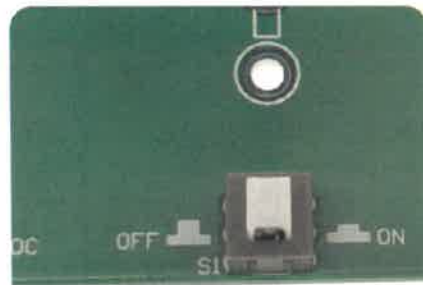
7. A board installation completed
Connecting power supply test
If the work is normal, the next step can be started.

Install and test B board
in the same way

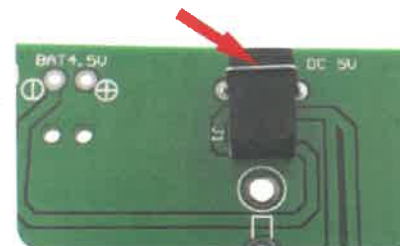
8. Install switch
Gap corresponding to thick line



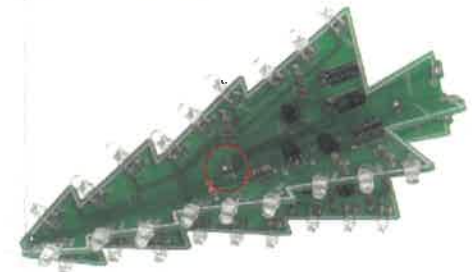
9. Install switch



10. Install DC socket
Reinforcement of DC Socket
with Component Pins



11. A board and B board combination
Location mark
(two arrow marks)



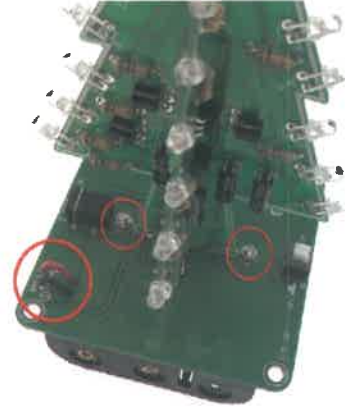
12. A, B board and C board combination
Location mark (two arrow marks)



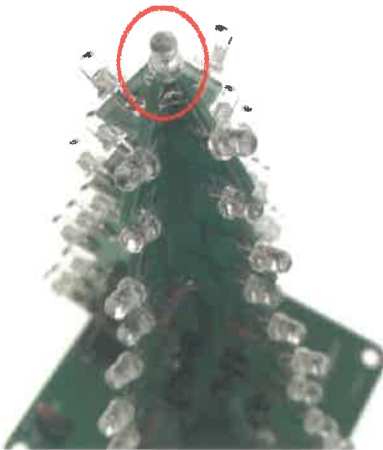
13. Wires pass through the holes and cut off the excess wires.



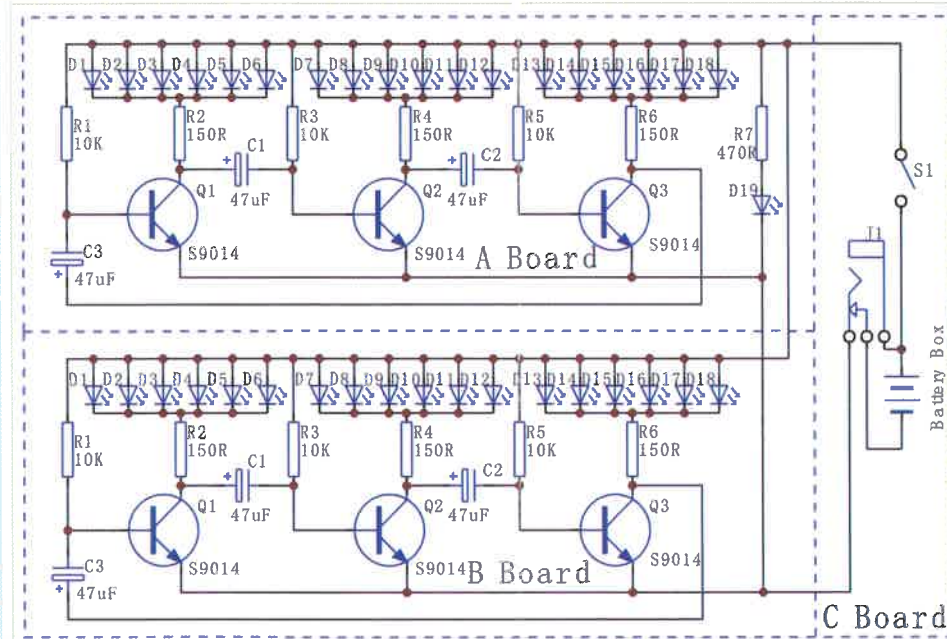
14. Welding wires and mounting screws



15. Install the top LED
Long pin is positive
Short pin is negative poles



Schematics



Components List

A board components list

Name	Model	Numbering	QTY
Resistor	150R	R2 R4 R6	3
	470R	R7	1
	10K	R1 R3 R5	3
Capacitor	47uF/16V	C1 C2 C3	3
LED	Φ3 Colorful	D1—D19	19
Triode	S9014	Q1—Q3	3
PCB	CTR-30A	1	1

B board components list

Name	Model	Numbering	QTY
Resistor	150R	R2 R4 R6	3
	10K	R1 R3 R5	3
Capacitor	47uF/16V	C1 C2 C3	3
LED	Φ3 Colorful	D1—D18	18
Triode	S9014	Q1—Q3	3
PCB	CTR-30B	1	1

C board components list

Name	Model	Numbering	QTY
Switch	5.8*5.8mm	S1	1
DC Socket	3.5mm	J1	1
Battery box	AA*3	1	1
Screw	2*6mm	2	2
Nut	2mm	2	2
Power cord	USB to DC	1	1
PCB	CTR-30C	1	1