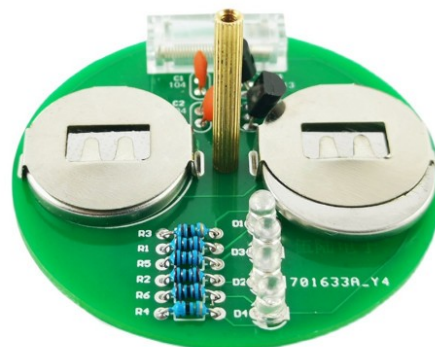
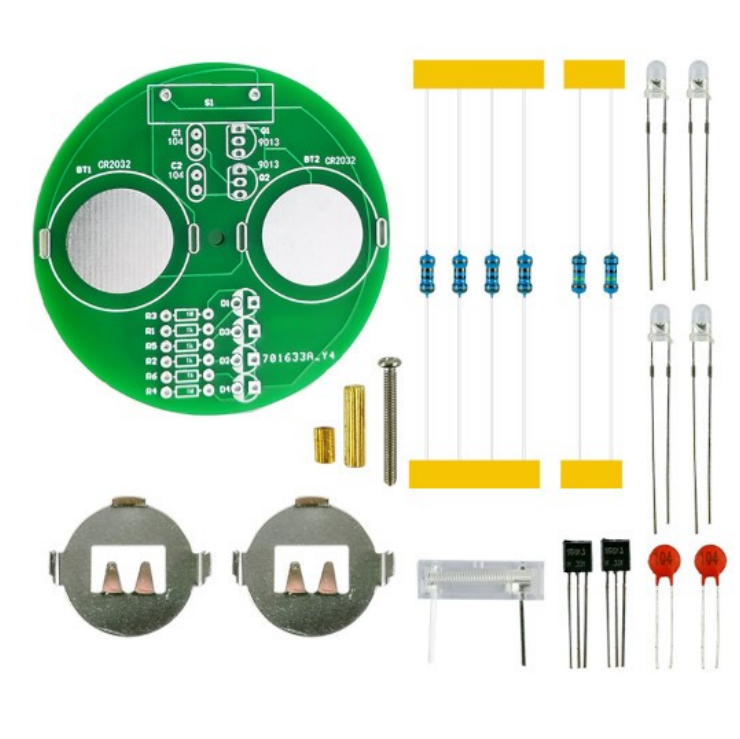


# SPINNINGTOP soldering kit



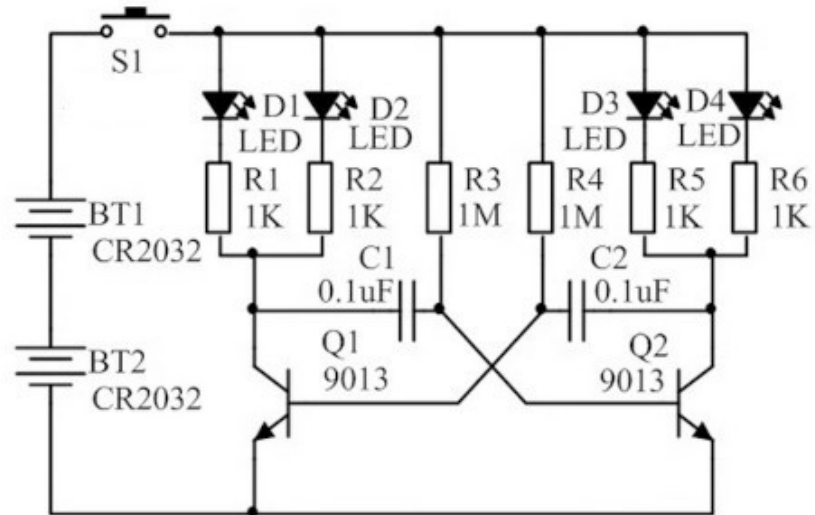
## Necessary tools:

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

## 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.

# SPINNINGTOP schematic:



**Components without polarity:**

R1, R2, R5, R6 - 1 k ohm BROWN, BLACK, RED

R3, R4 - 1 M ohm BROWN, BLACK, GREEN

C1, C2 - 0.1 uF small brown disks

**Components with polarity:**

S1 - the legs are displaced, follow the silkscreen

Q1,Q2 – follow the silkscreen the body is half-round

LED1, LED2, LED3, LED4 – the longer leg should be placed in the square pad

# Battery 1 and Battery 2



On the left side  
place with “-” on  
top

On the right side  
place with “+” on  
top

