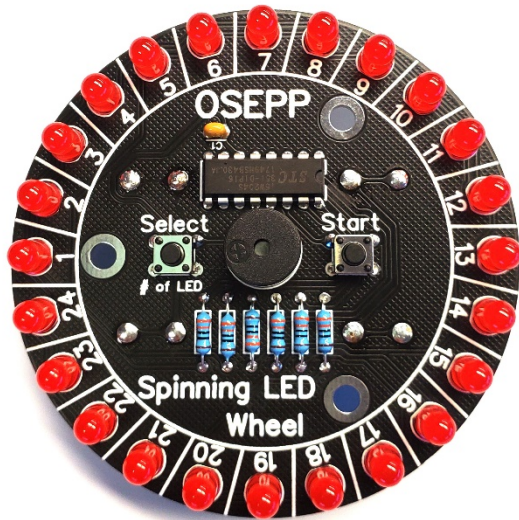


Spinning Wheel DIY Solder Kit



Cat #: DIY-006






Learn to solder with easy-to-follow instructions. Idea for hobbyists and education institutes.



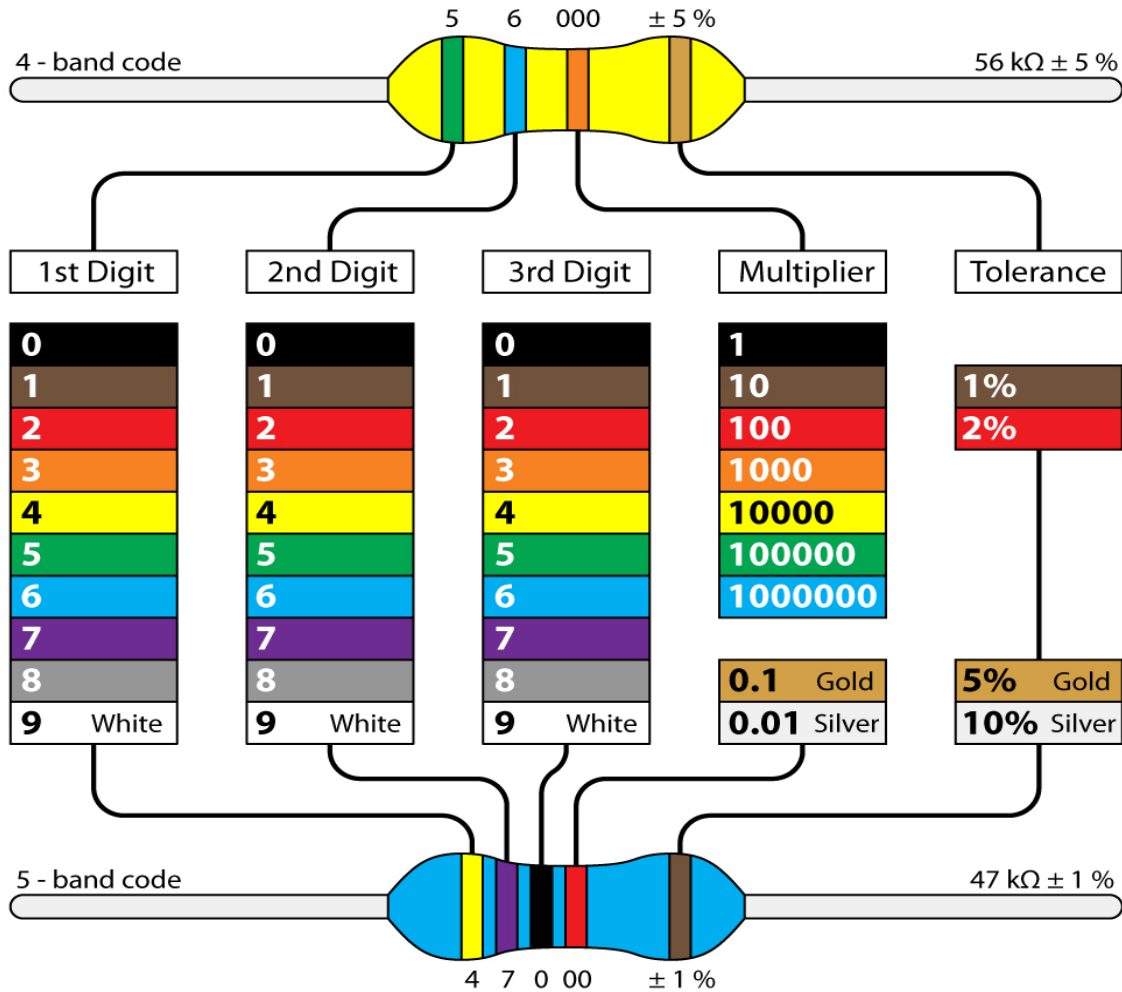
- ✓ 24 LEDs (extras included)
- ✓ Spinning sound
- ✓ 1 to 12 LED spin selection
- ✓ Push button operation
- ✓ 2xAAA battery power (not Incl.)
- ✓ Microprocessor technology
- ✓ Auto power off in 2 min

Kit Contents:

Component Name	Value	Qty	Designator	Important Info	Image Reference
LED 5mm	5mm	24	LED1.... LED24	Watch the polarity. Long leg is positive (+)	
Mini Push Button	6x6mm	2	KEY1, KEY2	No polarity	
Resistors	330 ohms	6	R1.... R6	No polarity	

Buzzer	3V	1	BUZZER1	Watch the polarity	
Integrated Circuit (IC)	STC15W204S	1	U1	Match the 'notch' on the silkscreen to the notch on the IC.	
Battery Clip	AAA	4	BT1, BT2, BT3, BT4	Pay attention to the placement direction.	
Capacitor	100nF	1	C1	No polarity	
Desoldering Braid	6" long (2.5mm width)	1	n/a	Use to remove solder when correcting mistakes	

Resistor colour code



<u>100 ohms</u> Brown/Black/Brown/Gold	<u>1K ohms</u> Brown/Black/Red/Gold	<u>1 MEG</u> Brown/Black/Green/Gold
<u>300 ohms</u> Orange/Orange/Brown/Gold	<u>10K ohms</u> Brown/Black/Orange/Gold	



OSEPP USA, INC.
2105 S Hardy Dr., Unit # 19
Tempe, Arizona, 85282
USA

Step-by-Step Instruction

STEP 1: Place and solder IC into place

- Match the 'notch' on the IC to the notch on the PCB silkscreen image.



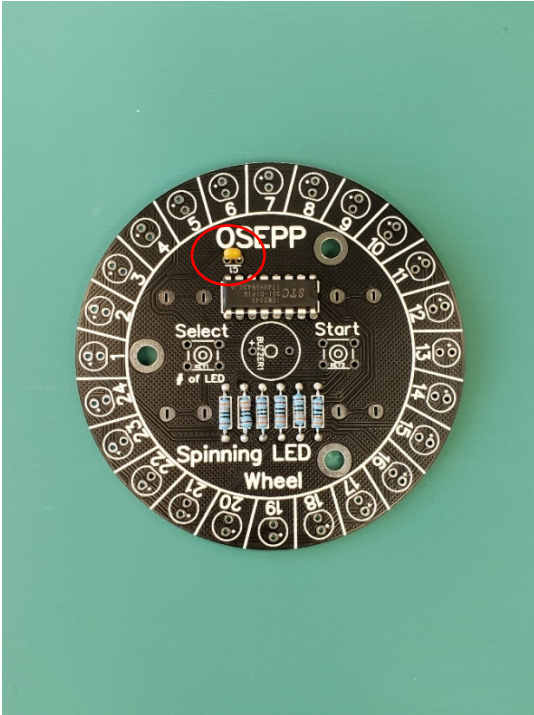
STEP 2: Place and solder the resistors into place.

- There is no polarity with the resistors



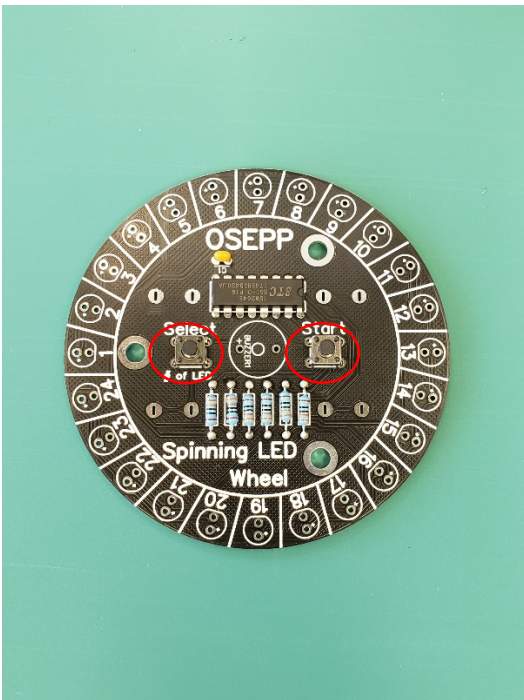
Step 3: Place and solder the **capacitor** in place.

- There is no polarity with the capacitor.



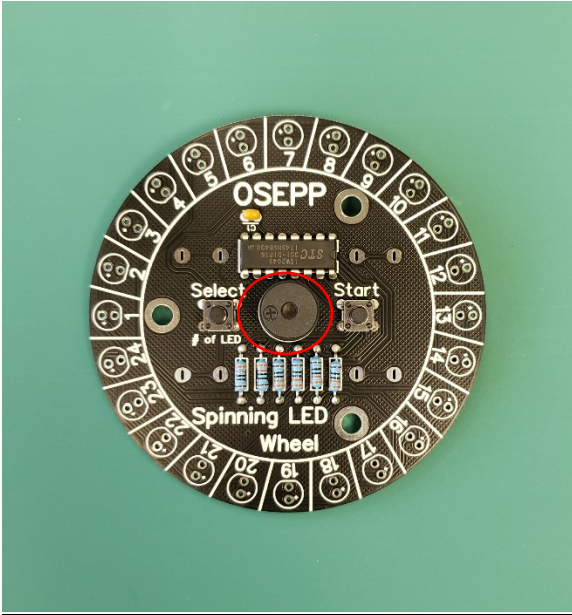
Step 4: Place and solder the **mini switches** into place.

- There is no polarity with the mini switches.



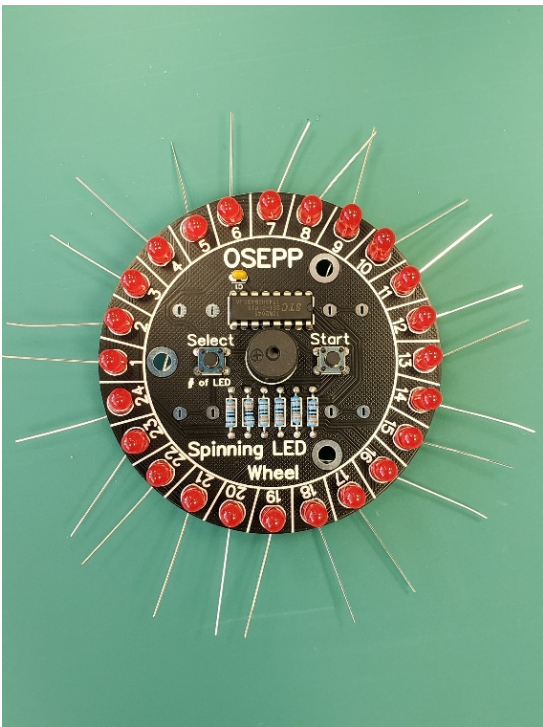
Step 5: Place and solder the buzzer.

- Watch for polarity. Refer to the under side of the buzzer for polarity label.



Step 6: Place and solder the LEDs (x24) into place.

- The longer lead on the LED is positive (+).
- To hold the LED in place to solder, bend the lead on the back of the PCB.
- A diagonal cutter is required (not Incl.) to cut off the leads after soldering.

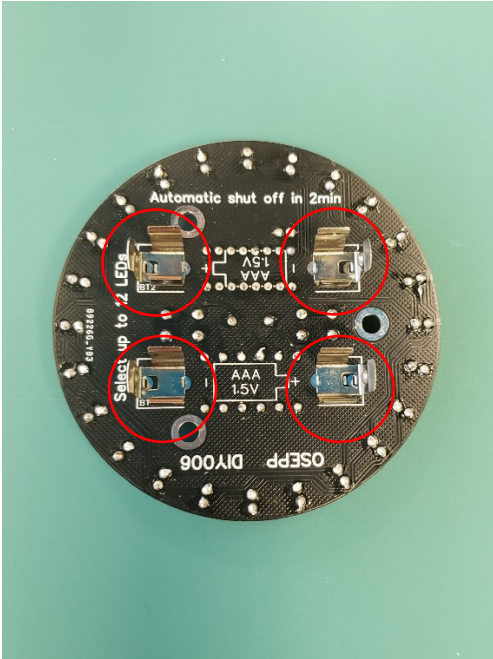




OSEPP USA, INC.
2105 S Hardy Dr., Unit # 19
Tempe, Arizona, 85282
USA

Step 7: Place and solder the **battery clips (x4)** into place.

- Please refer to the image below for battery clip placement.



Step 13: Finished image reference

