

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

Holiday Ornaments DIY Solder Kit

Cat #: DIY-200

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



Bell

- ✓ Beginner level difficulty
- √ 31 solder points
- ✓ Multicolor cycling RGB (slow)
- ✓ On/Off switch
- ✓ Coin battery powered (CR1220)
- ✓ Batteries not included
- √ Size: 70 x 54 mm



Tree

- ✓ Beginner level difficulty
- ✓ 31 solder points
- ✓ Multicolor cycling RGB (fast)
- ✓ On/Off switch
- ✓ Size: 70 x 50 mm



Snowflake

- ✓ Beginner level difficulty
- √ 31 solder points
- ✓ Multicolor cycling RGB (fast)
- ✓ On/Off switch
- ✓ Size: 60 x 60 mm







Kit Contents: Bell

Component Name	Value	Qty	Designator	Important Info	Image Reference
LED 5mm	Multicolor Cycling RGB (slow)	6	LED1 - LED6	Watch the polarity. Long leg is positive (+)	
Resistors	1K	6	R1 – R6	No polarity	OK - OK
On/Off Switch	4 x 8 mm	1	SW2	No polarity	Wall I
Coin Battery Clip	CR1220	1	P1	Watch the position	*
PCB	70 x 54 mm	1	n/a		
Desoldering Braid	6" (2.5mm width)	1	n/a	Used to remove solder to correct mistakes	

Kit Contents: Tree

Component Name	Value	Qty	Designator	Important Info	Image Reference
LED 5mm	Multicolor Cycling RGB (slow)	6	LED1 - LED6	Watch the polarity. Long leg is positive (+)	
Resistors	1K	6	R1 – R6	No polarity	OR OR
On/Off Switch	4 x 8 mm	1	SW2	No polarity	





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Coin Battery Clip	CR1220	1	P1	Watch the position	•
PCB	70 x 54 mm	1	n/a		
Desoldering Braid	6" (2.5mm width)	1	n/a	Used to remove solder to correct mistakes	

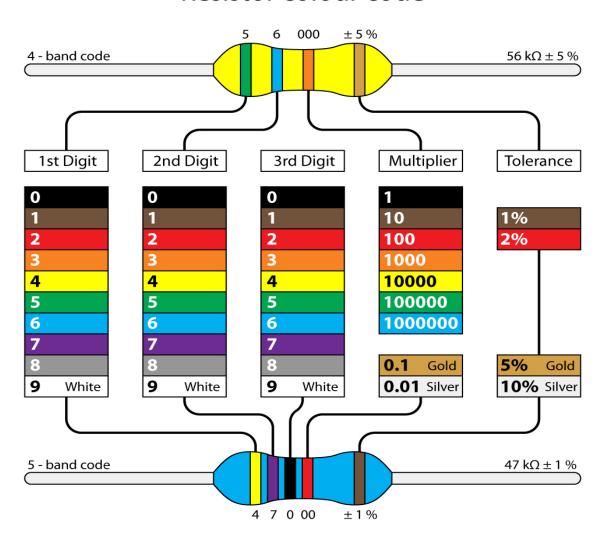
Kit Contents: Snowflake

Component Name	Value	Qty	Designator	Important Info	Image Reference
LED 5mm	Multicolor Cycling RGB (fast)	6	LED1 - LED6	Watch the polarity. Long leg is positive (+)	
Resistors	1K	6	R1 – R6	No polarity	OIL OIL
On/Off Switch	4 x 8 mm	1	SW2	No polarity	
Coin Battery Clip	CR1220	1	P1	Watch the position	•
PCB	70 x 54 mm	1	n/a		interpretation of the second o
Desoldering Braid	6" (2.5mm width)	1	n/a	Used to remove solder to correct mistakes	





Resistor colour code



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



Step-by-Step Instruction: BELL

STEP 1: Place and solder LEDs 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.



STEP 2: Place and solder the resistors into place.

• There is no polarity with the resistors





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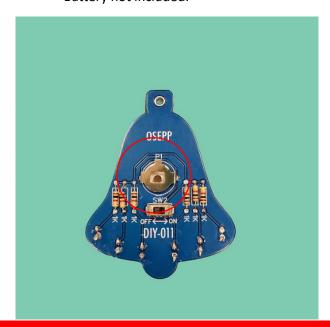
Step 3: Place and solder the **On/Off switch** into place.

• There is no polarity with the on/off switch



Step 4: Place and solder the **Coin Batter Clip** into place.

- Watch the position so that the coin battery can be placed from the top of the bell downwards.
- Requires CR1220 (available on Amazon).
- Battery not included.







Step-by-Step Instruction: Tree

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Step 3: Place and solder the **On/Off switch** into place.





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• There is no polarity with the on/off switch



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- Watch the position so that the coin battery can be placed from the top of the bell downwards.
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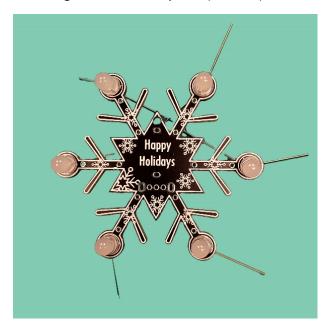


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Step-by-Step Instruction: Snowflake

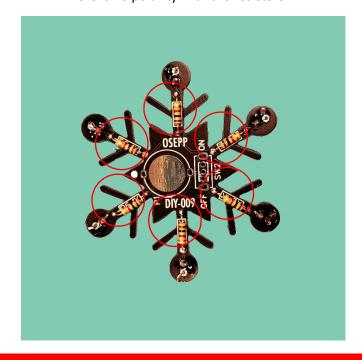
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Step 4: Place and solder the Coin Batter Clip into place.

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Step 3: Place and solder the **On/Off switch** into place.

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