# Required Components

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| 1. A blue and red spinning light toy | black mono jack with nut | 1. an orage flexible pcb | **BOM**   1. Spinning Light Wand 2. 3.5mm mono jack and nut x 1 3. Flex PCB 4. 3D printed stand (2 pcs) 5. Screw (x2) 6. AA battery (x3) |
| 1. Two white 3d printed pieces | 1. A close-up of a screw     AI-generated content may be incorrect. | 1. One duracell batteryOne duracell batteryOne duracell battery |

# Required Tools

* Phillip screwdriver
* Soldering iron and solder
* Scissor

# Required Personal Protective Equipment (PPE)

* Safety glasses

# Assembly Instructions

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| 1. Locate your battery interrupter PCB and mono jack.   You will notice the prongs from the mono jack match up with the holes in the PCB. Lay the battery interrupter on top of the mono jack, with the metal prongs going through the holes. | A yellow object with a white circle and a black square  Description automatically generated |
| 1. At the base, add solder to the metal prongs so the PCB and mono jack are connected.   Make sure the PCB is flat against the mono jack as possible  The metal ring, or nut, that is around the input of the mono jack can be removed and set aside. | A yellow and silver piece of electronics  Description automatically generated |
| 1. Cut flex PCB down to the correct battery size. For this toy, cut around the line marked AA   Solder the mono jack to the flex PCB (yellow circles). Insert the flex PCB on top of a AA battery (middle image). Secure the mono jack to the 3d printed base (right). Insert the wand into the 3d printed base and secure with two screws underneath. | Battery Interrupter (Flex PCB) - Makers Making Change |
| 1. Open the battery compartment and insert 3 AA batteries   Insert the flex PCB on top of one of the batteries | Holding a black flex pcb into the battery compartment of the toy |
| 1. Secure the mono jack to the 3d printed base | A black mono jack secured onto a white 3d printed part |
| 1. Insert the wand into the 3d printed base and secure with two screws underneath. | A red and white can on a white plastic holder  AI-generated content may be incorrect. |
| 1. Toy is complete! Test with a switch. |  |