Switch Adapted Busy Gears Toy
ASSEMBLY GUIDE

Required Components

1. 	2. 	**BOM** 1. PlaySkool Explore 'N Grow Busy Gears Toy 2. 3.5mm Female Mono Cable

Required Tools

- Small Phillips screwdriver
- Drill and 1/8" drill bit
- Wire strippers
- Soldering iron and solder
- File (optional)

Required Personal Protective Equipment (PPE)

- Safety glasses

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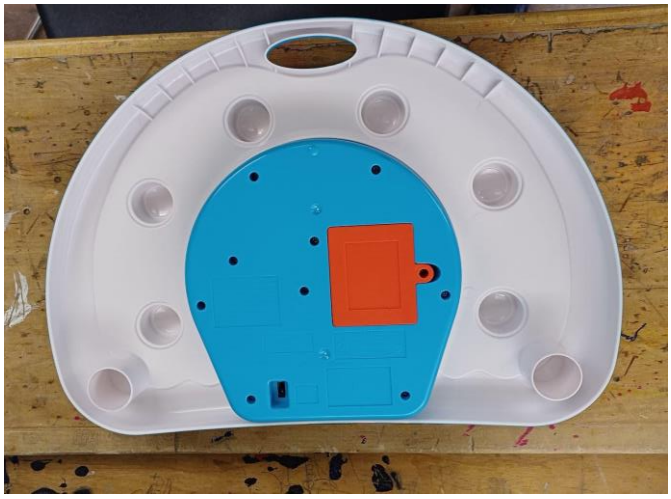
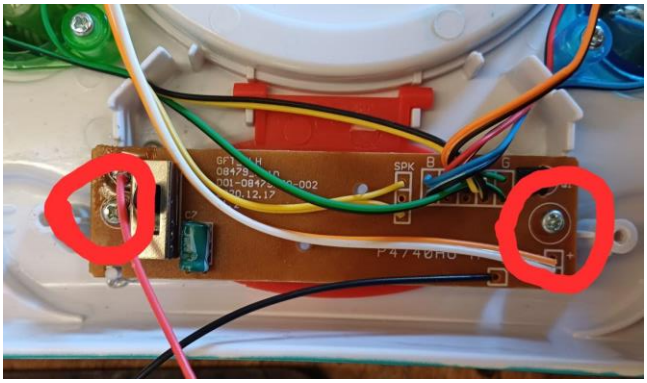
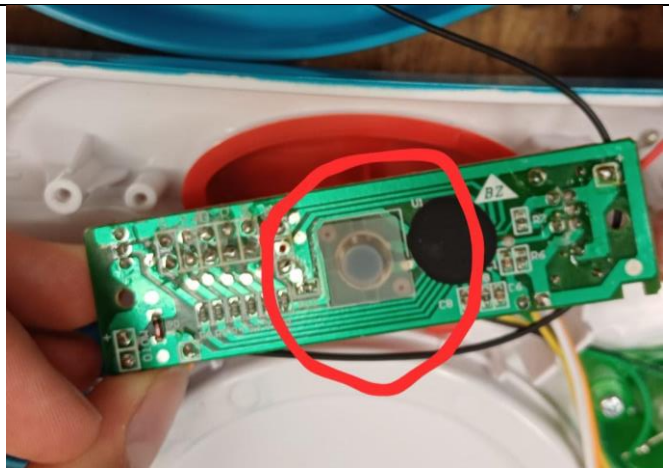
Assembly Instructions

1. Turn over the Busy Gears and remove all 10 screws. Remove the blue cover to reveal the inside compartment. **Note**: The red and black wires connected to the battery pack are easy to accidentally disconnect. Disconnections require re-soldering.	
2. Remove the two screws holding the circuit board down (highlighted in red). Flip the circuit board over.	
3. Remove the silicone button circled in red. You should be able to pull the two silicone legs out of the small holes.	

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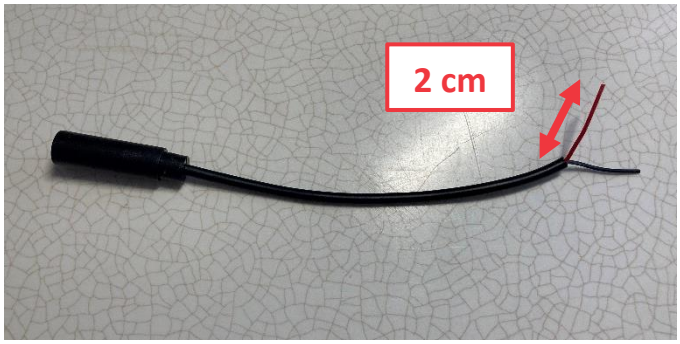
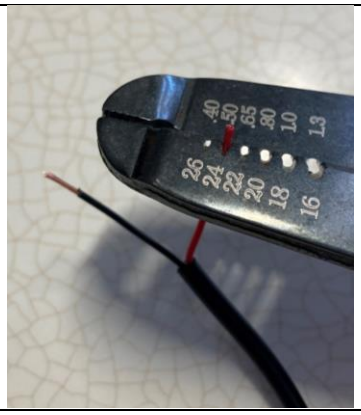
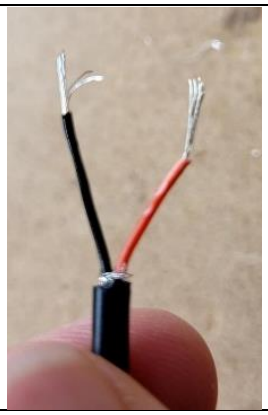
4. Strip 2 cm off of the cable using a wire stripper, revealing small wires inside.	
5. Strip approximately 0.5cm off of the small wires. Note: if there are 3 wires, strip all the wires first then twist the ends of the Tip and Ring wires together.	 
6. Prior to soldering to the device, tin your wire. The best way to do this is cover the exposed wire end in solder.	

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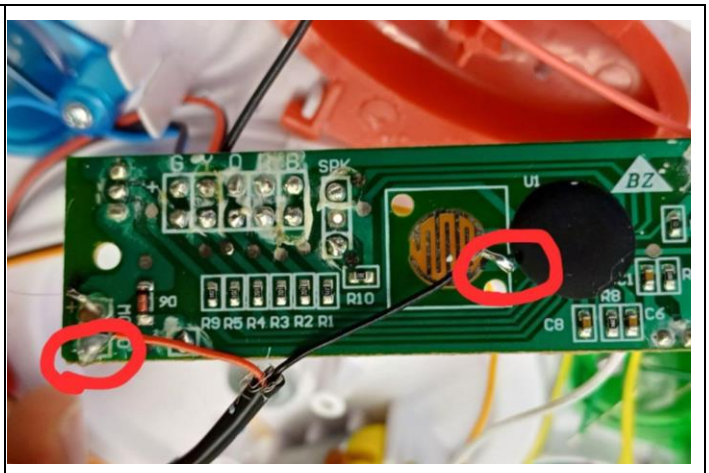
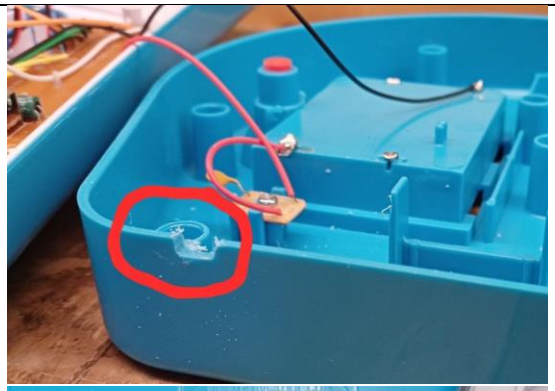
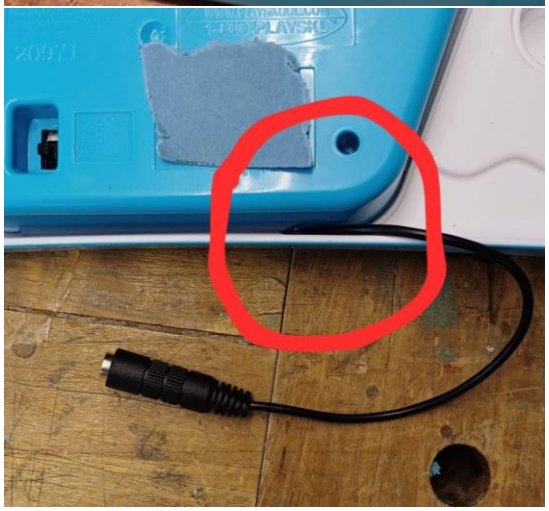
7. Solder the two wires of the jack onto the circuit board as shown. Any wire of the two wires will work. Note: It is easy to melt the board; use caution.	
8. Drill a small notch along the edge of the casing for the cable. Smooth out with a file if necessary. Slot the cable into the notch with the female jack sticking out of the toy.	 

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9. Plug in an assistive switch and test. If the toy doesn't turn on when the switch is activated, open the toy back up and check all the solder connections.