

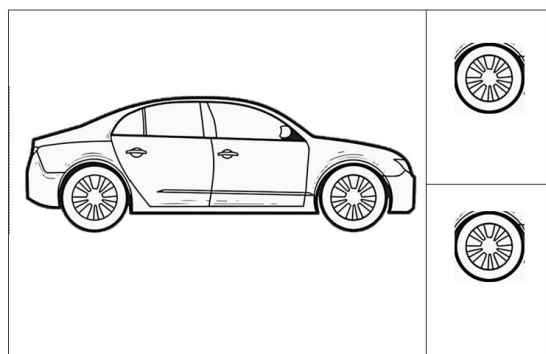
# Power Wheel DIY Kit Car Assembly Guide

## Materials Needed:

- Cardboard box
- Copper tape (for conductivity)
- 2 DC motors
- 3V lithium button cell battery
- Colour pencil for car cutout (optional for creativity)
- Blu-Tack or glue (for securing parts)
- Scissors and blade

## Step 1: Preparing the Car Design

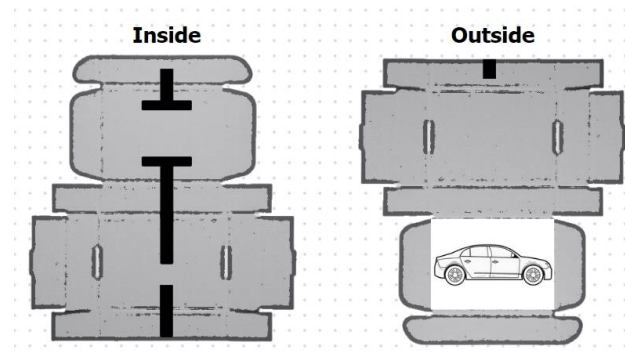
- Customize your car by coloring the car cutout. Get creative by adding colors, patterns or decorations of the background.
- Once the design is complete, cut it out and attach it to the front of your box.



## Step 2: Creating the Copper Tape Circuit

### a. Laying Out the Circuit Path:

Stick copper tape inside the box following the illustration to serve as conductive paths.



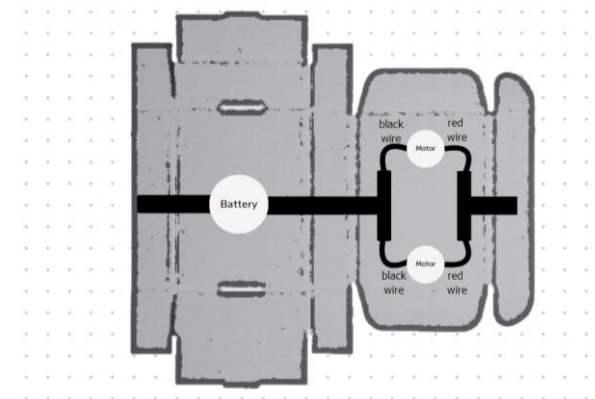
- Securing the Battery:** Place the button cell battery in the circuit, making sure the connections are stable.

## Step 3: Attaching the Motors

- Positioning the Motors:** Take your DC motors and attach them to the wheels of the car design. Use a blade to make small cross-shaped cuts. Your DC motors can fit through the cut and use tack to secure it.
- Fixing the Wheels:** Make sure the rotating part of the motor aligns with the wheel areas. Attach the wheel cutouts to

the DC motors using tape or Blu-Tack to secure them. Ensure the motors' rotating parts can turn the wheels smoothly.

- Wiring the Motors:** Attach the red wire from each motor to the upper copper tape path, and the black wire to the lower copper tape path. Ensure that both motors and the copper tape connections are secure. The motors will start spinning once completing the circuit by covering the lid.



## Tips:

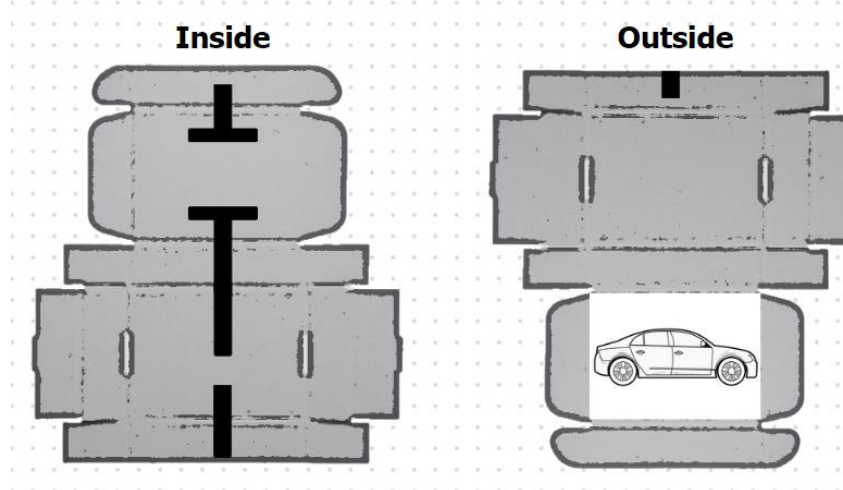
- Ensure the copper tape is not torn to maintain good conductivity.
- If the motors are not spinning, check the battery placement or the connections to the copper tape.

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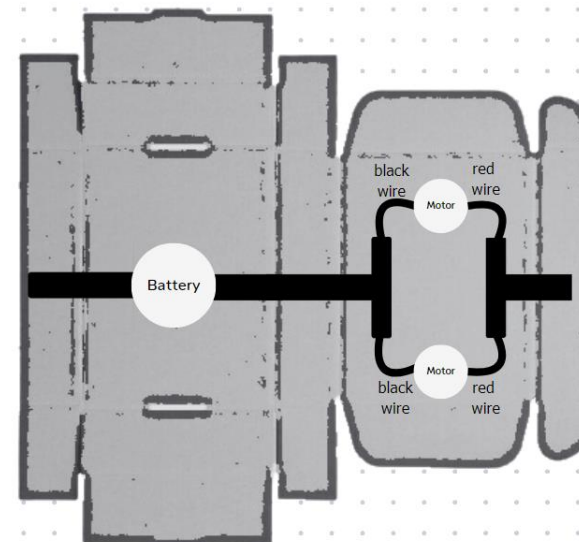
Scan QR Code for video tutorial:



Laying out the circuit path



Wiring the motors



## ⚠ WARNING

### Safety Guidelines to Prevent Serious Injury or Death

- Small parts like motors, wires, and gears can be a choking hazard. Keep them away from infants and young children.
- Children under 8 should only handle the project under adult supervision.
- Use on flat surfaces, away from flammable materials.

### POSSIBLE ENTANGLEMENT OR STRANGULATION HAZARD:

- Keep wires and moving parts away from children to avoid entanglement.
- Tie back long hair to prevent it from getting caught in motors or wheels.

### POSSIBLE ELECTRICAL HAZARD:

- The 3V lithium battery can be dangerous if swallowed. Keep it out of children's and pets' reach.
- Use the correct battery type and voltage to avoid fire risks.