Hover-1 Nomad Battery Replacement

How to replace the battery in your Hover-1 Nomad.

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INTRODUCTION

If your Nomad does not charge, dies quickly, or does not drive predictably, your battery may be dying or damaged. Follow this guide to replace the battery in the Hover-1 Nomad.

🔧 TOOLS:

- Phillips #2 Screwdriver (1)
- Spudger (1)
- Phillips #1 Screwdriver (1)
- Cutting Plier (1)

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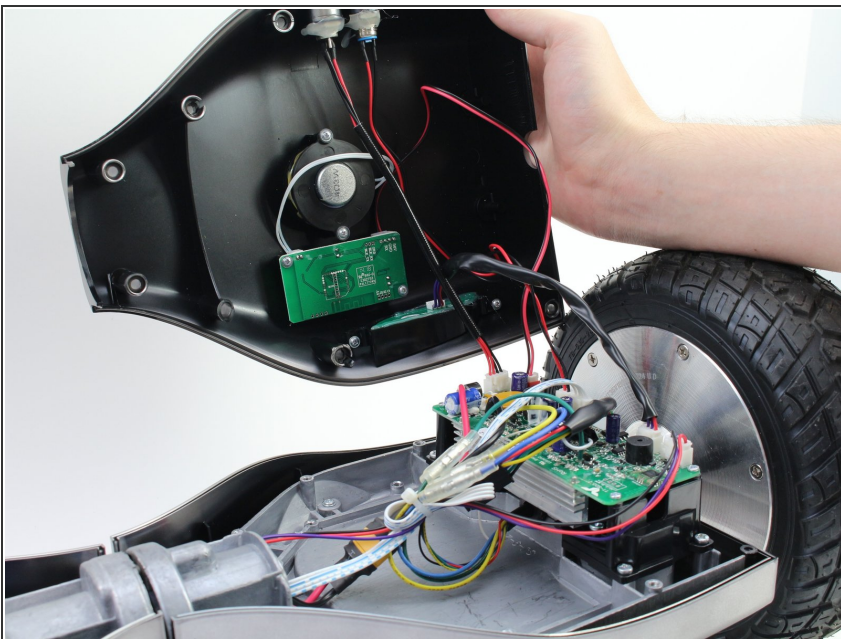
Step 1 — Outer Shell

- Break the two warranty stickers by poking a screwdriver through them or peeling them off.

- Remove the following twenty screws by rotating the screwdriver counterclockwise:
  - Eight 16.2mm Phillips #2 screws
  - Eight 15mm Phillips #2 screws
  - Four 19.1mm Phillips #2 screws

- (i) The holes containing most of the screws are deep and narrow. A screwdriver with interchangable bits will not be able to reach them.

- ⚑ Do not over-tighten the screws during reassembly. Over-tightened screws can crack the plastic channels holding the shell to the frame of the hoverboard.

Step 2

- Use a nylon spudger to pry the metal handle away from the outer shell.

- Rotate the metal handle toward the center of the hoverboard to unlock the plate from the retaining clips.

- Lift the hoverboard off the metal handle.

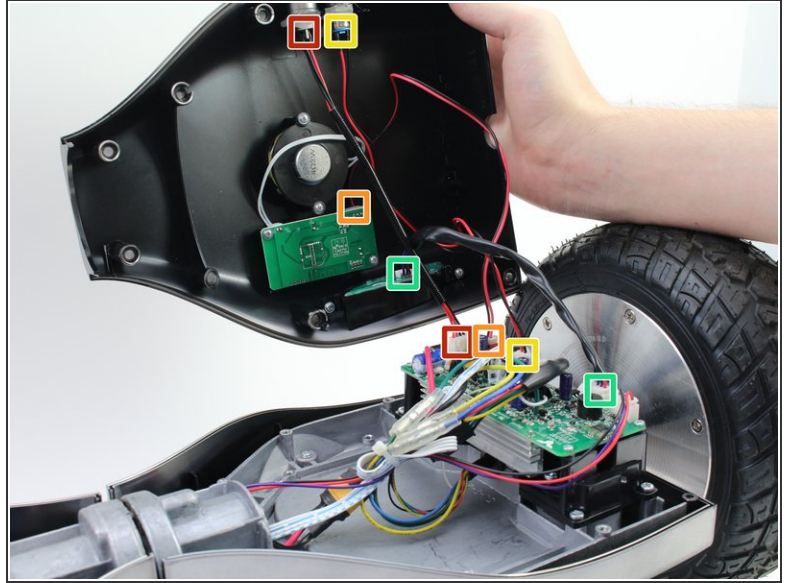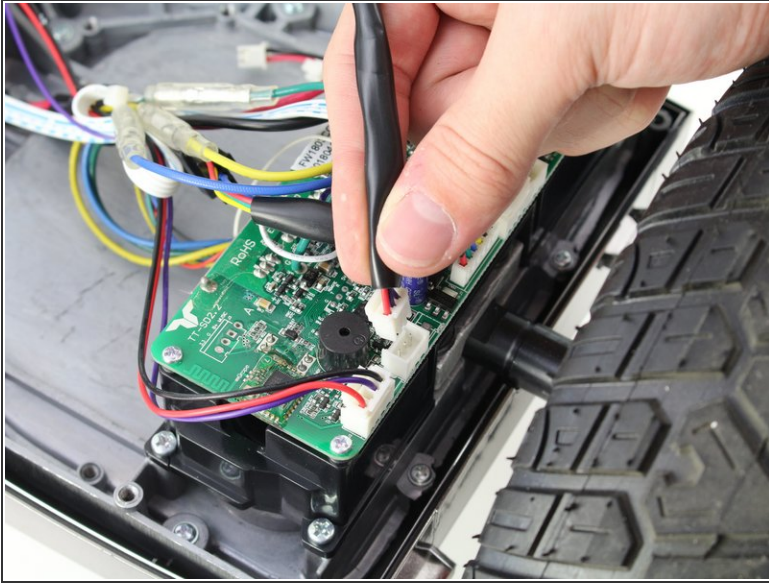- Repeat for the handle on the other side of the hoverboard.

Step 3

- Lift the plastic cover on each side up and away from the device.

⚠ Multiple wires connect the circuit boards to the outer shell. Remove the shell gently to avoid damaging the wires or components.

Step 4

- Disconnect the following wires by pinching the connector tabs and pulling the plugs out of the connectors:

  - Charging port wires

  - Speaker assembly wires

  - Power button wires

  - Headlight wires

- ⓘ Only the headlight wires need to be disconnected from the other circuit board.

- ⭐ Ensure the wires are connected to the correct ports on the circuit board during reassembly.
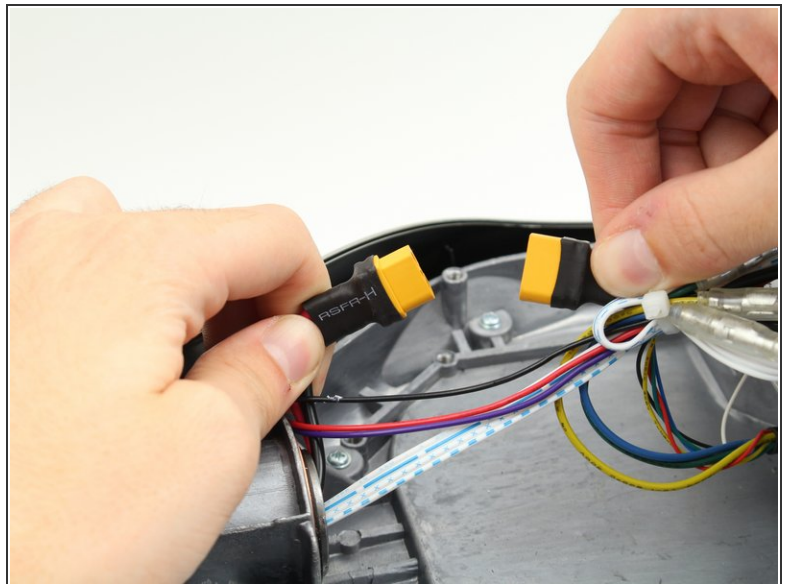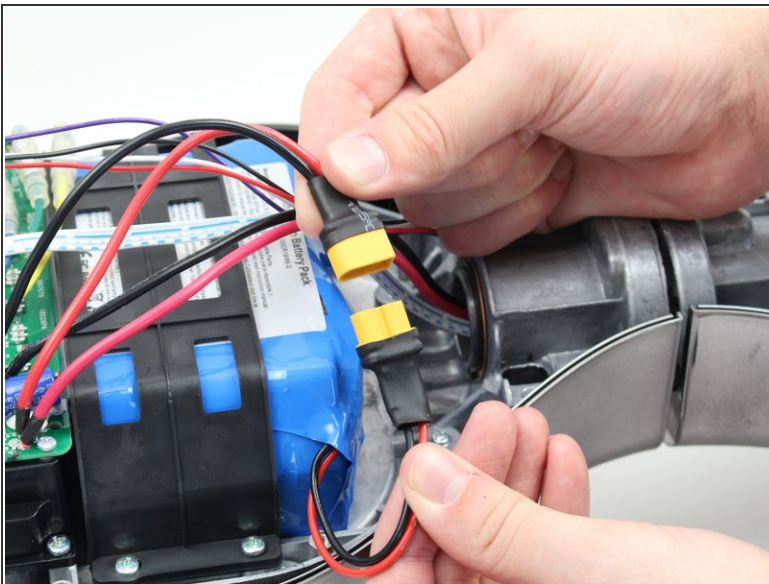
Step 5 — Gyroscope Sensor Boards
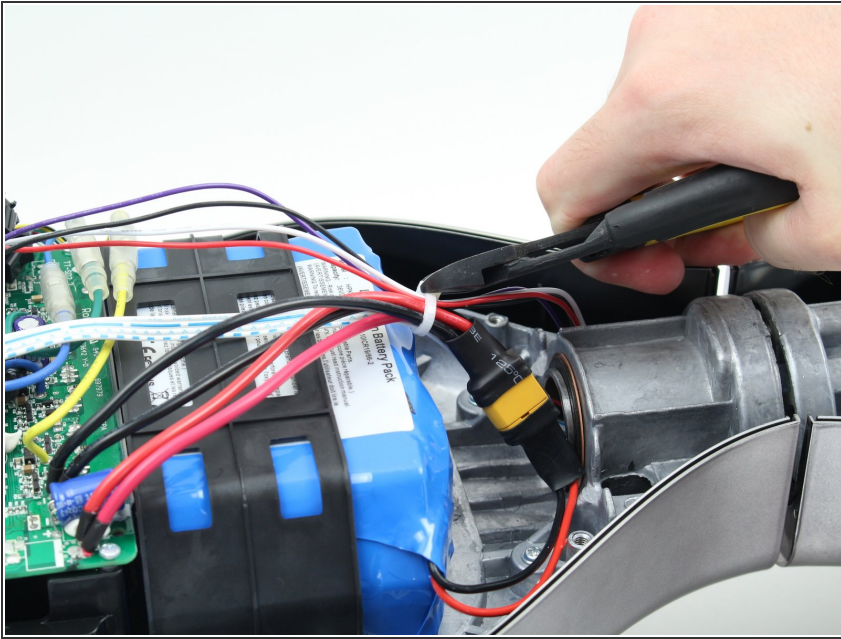
- Cut the two zip ties around the bundle of wires with cutting pliers.

- ⚠️ The zip tie is secured tightly around the wires. Be careful not to nick or cut any of the wires while removing the zip tie.

- ⚠️ Do not puncture or cut the lithium-ion battery. Especially with a battery this large, the battery can catch fire or explode if damaged.
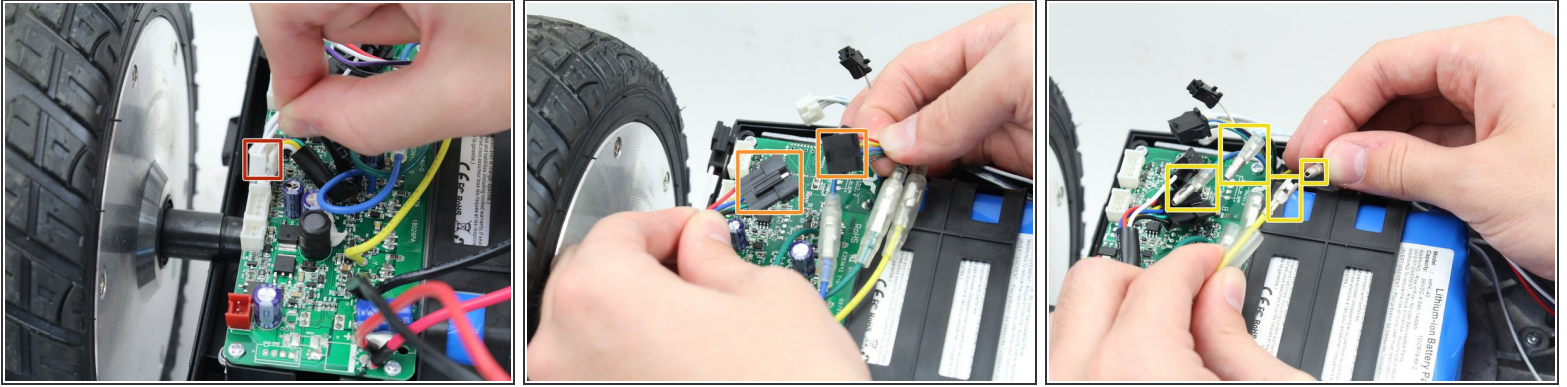
Step 6

- Disconnect the circuit boards from the battery by pulling both battery connectors apart.

Step 7

- Disconnect the following wires connecting the circuit boards to the sensors and motors:
  - Disconnect the white connectors by pinching the tab and pulling up on the connectors.
  - Disconnect the black connectors by pulling the two sides apart.
  - Disconnect the green, yellow, and blue cables by pulling back the plastic shielding and pulling the ends apart.
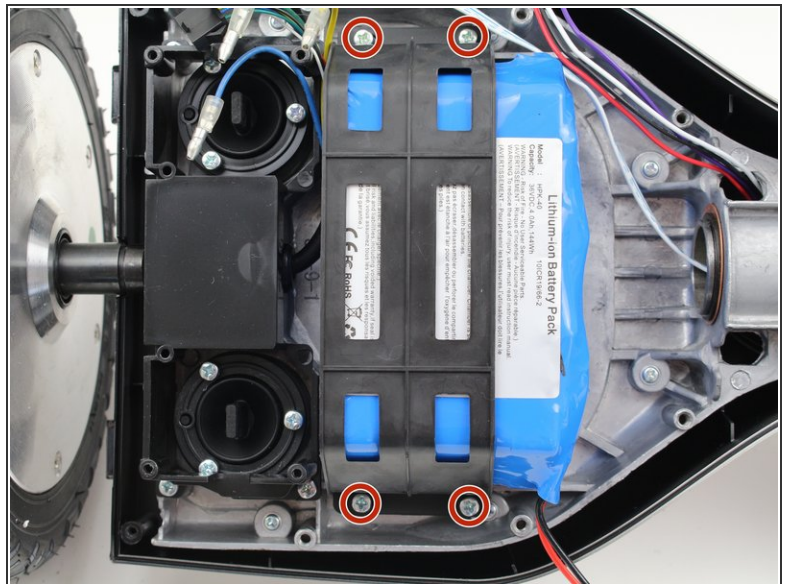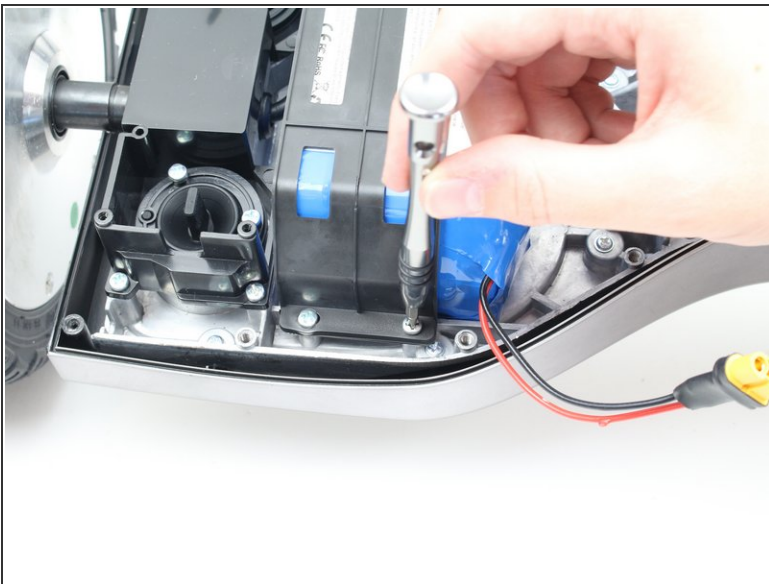
Step 8
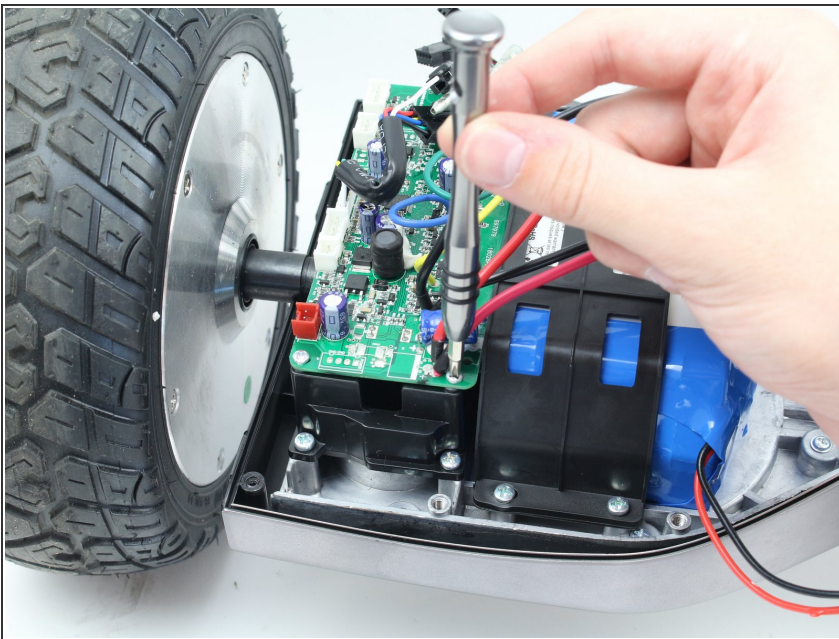
- Remove the four 14mm Phillips #1 screws in the corners of each circuit board by turning the screwdriver counterclockwise.

Step 9
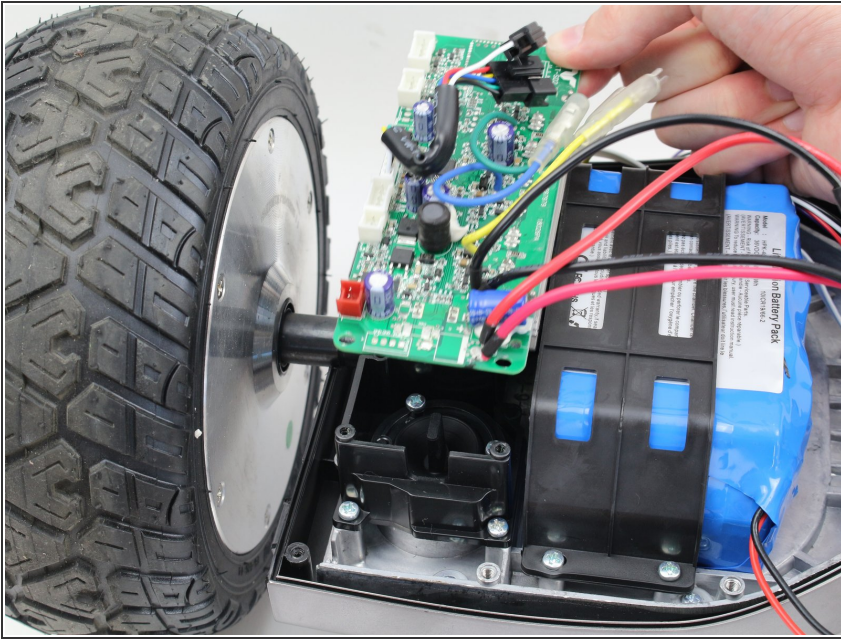
- Remove the circuit board by pulling it up and out of the hoverboard.
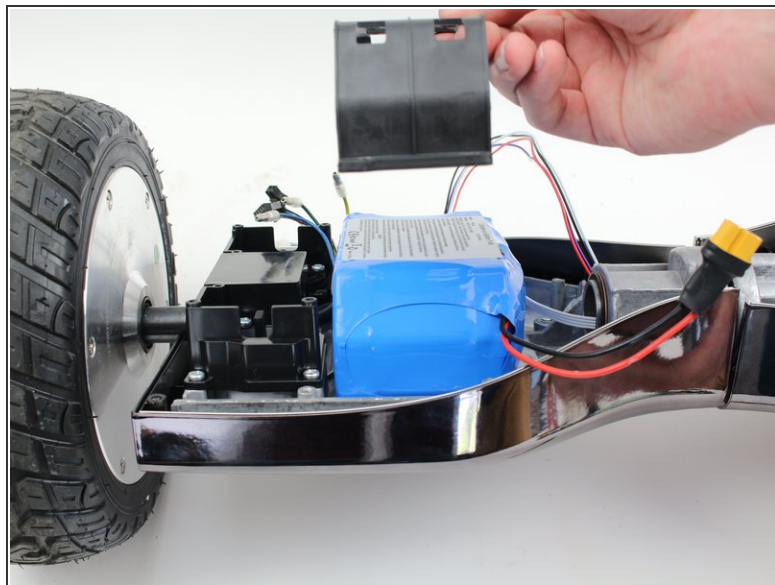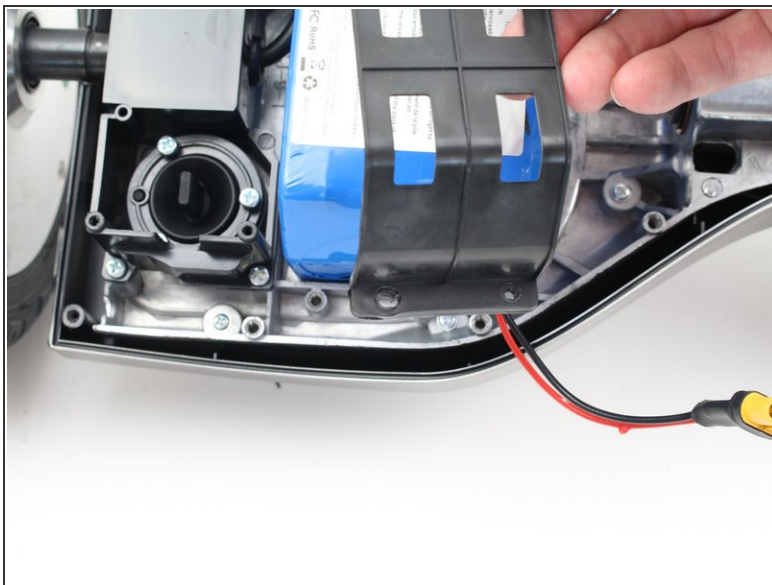
Step 10 — Battery

- Remove the four 15mm screws from the battery cage with a Phillips #2 screwdriver.

⚠️ Do not puncture or cut the lithium-ion battery. Especially with a battery this large, the battery can catch fire or explode if damaged.

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Step 11

- Lift the battery cage up and off the battery.

Step 12

- Remove the battery by lifting it off the hoverboard frame.

- ⓘ The battery is attached to the frame with an adhesive strip. It can be removed by hand with some force.

To reassemble your device, follow these instructions in reverse order.

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