



Free Wheelchair Mission GEN 1 Teardown

Before you take apart your Free Wheelchair...

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INTRODUCTION

Before you take apart your Free Wheelchair Mission GEN 1 wheelchair familiarize yourself with tools you will be using with the [Free Wheelchair Mission Tools Maintenance Guide](#).



TOOLS:

- [10 mm Wrench](#) (1)
 - [19 mm crescent wrench](#) (1)
 - [Large Needle Nose Pliers](#) (1)
 - [Free Wheelchair Mission 10 mm T-Wrench](#) (1)
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Step 1 — Remove Air Pump



- Start by finding the pump on the back of the wheelchair.
- Remove the screw that holds the pump to the frame with a 10 mm wrench.

Step 2 — Remove Footrest



- To remove the footrest, turn it upside-down and use the 10 mm box wrench to take out all four of the screws.

Step 3 — Remove Seat Cushion



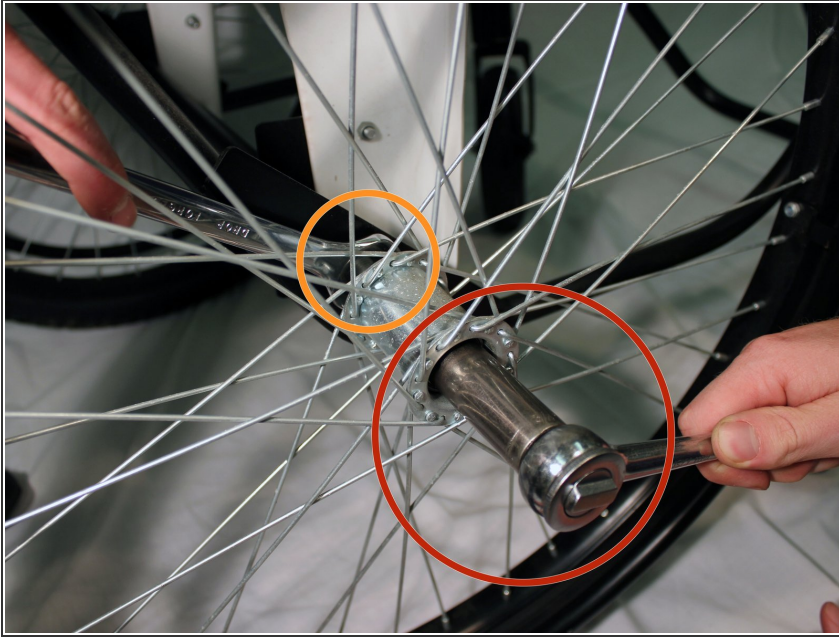
- Untie the four ties around the corners and back of the chair by pulling the strings.
- Remove the cushion from the chair.

Step 4 — Remove Brakes



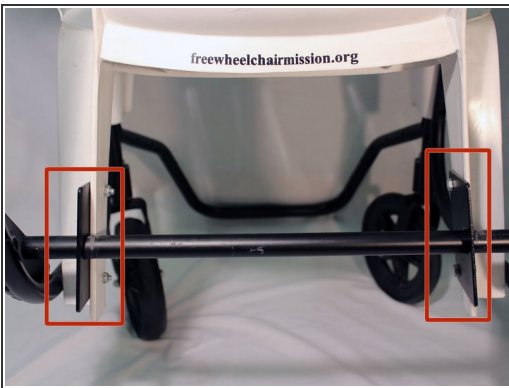
- Use the 10 mm box wrench to unscrew the two screws that hold the brake to the frame.
- Remove the brake from the frame.

Step 5 — Remove Wheel



- Use a 19 mm socket wrench to unscrew the axle bolt.
- *i* The Free Wheelchair Mission Multi-Purpose Tool can be used in place of the 19 mm socket wrench
- Use a 19 mm adjustable wrench (also known as a Crescent wrench) to prevent the nut from spinning.
- Slide the wheel off the frame.

Step 6 — Remove Axle Plates



- Turn the chair around to see the two base plates that hold the axle to the back of the chair. There are two screws on each of the plates that connect the chair to the axle.
- Hold the nut with a 10 mm wrench in one hand. In the other hand, use a wrench to remove the screw.

Step 7 — Remove Front Frame and Castor Wheels



- Next you'll remove the screws that hold the back frame, chair, castor wheel, and front frame together. There is one screw on each side of the chair immediately above where the brakes are located.
- Remove both of these screws using a 10 mm wrench.
- Separate the front frame and the castor wheel from the chair.

Step 8 — Remove Chair



- Remove the chair from the frame.