



Free Wheelchair Mission GEN 1 Teardown

This guide will help you completely take apart your wheelchair into its individual parts.

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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:

- [Smart 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 holding the pump to the frame with a 10mm wrench

Step 2 — Remove Footrest



- Remove the footrest by turning it upside down and use the 10 mm box wrench to take out all four of the screws

Step 3 — Remove Seat Cushion



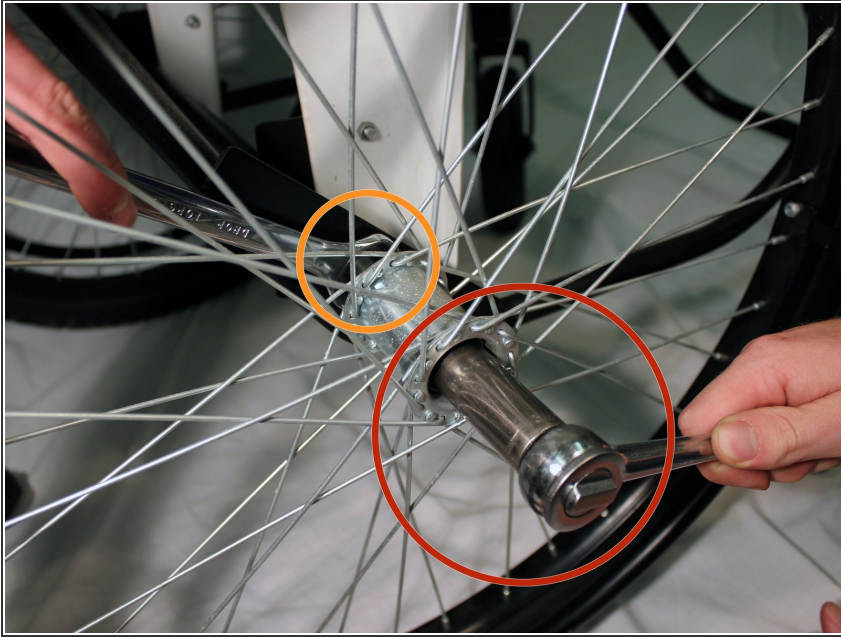
- Locate the 4 ties around the corners and back of the chair
- Untie each of the knots by pulling the strings
- Remove the cushion from the chair

Step 4 — Remove Brakes



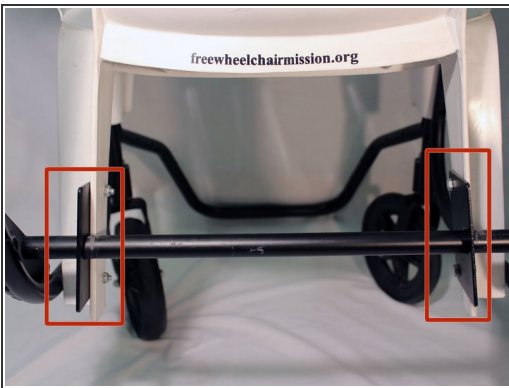
- Locate brakes on the back of the small frame behind the wheel.
- Unscrew the two screws holding the brake to the frame using the 10 mm box wrench
- Remove the brake from the frame

Step 5 — Remove Wheel



- Use the 19mm socket wrench to unscrew the axle bolt.
- Use 19mm crescent wrench to keep the nut from spinning
- ⓘ The Free Wheelchair Mission Multi-Purpose Tool can be used in place of the 19mm socket wrench
- Slide the wheel off the frame

Step 6 — Remove Axle Plates



- Turn the chair around and locate 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



- Locate 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 10mm wrench.
- Separate the front frame and the castor wheel from the chair.

Step 8 — Remove Chair



- Remove the Chair from the frame

