



# GEN 2 Wheelchair Teardown

How to teardown the GEN 2 wheelchair for storage or transportation.

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## INTRODUCTION

Free Wheelchair Mission's most recent model, the GEN 2, was created for use in developing countries. This new model is designed to fit any body type for adults and children with special needs.

The GEN 2 has several updated features for increased safety and maneuverability including: adjustable seating, large caster wheels, extra-thick seat cushion, and adjustable footrests.

In this guide, you will learn how to teardown the GEN 2 wheelchair for storage or transportation.



### TOOLS:

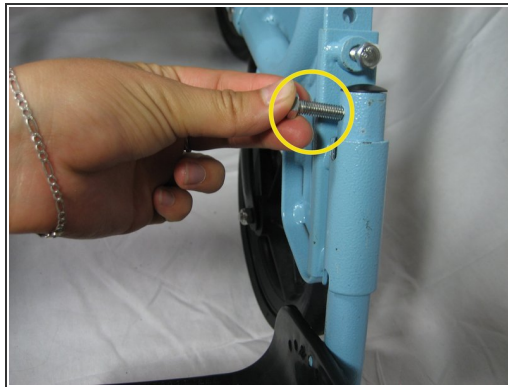
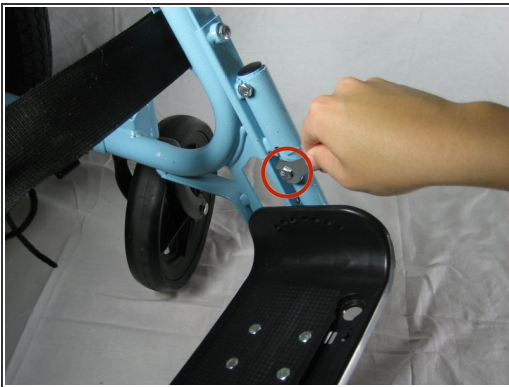
- [Smart Wrench](#) (1)
  - [Socket 19mm](#) (1)
  - [1/2" Wrench](#) (1)
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## Step 1 — GEN 2 Wheelchair Teardown



- **Find** a clean area to work in so every part can be accounted for.

## Step 2



- **Remove** the footrest by unscrewing the lower bolt, using the 10 mm wrench.
- **Remove** the upper bolt above the socket.
- **Slide out** the footrest and unscrew the plate welded to the socket.
- **Slide** the plate upward and off of the track to remove.
- **Untie** the foot retention belt.

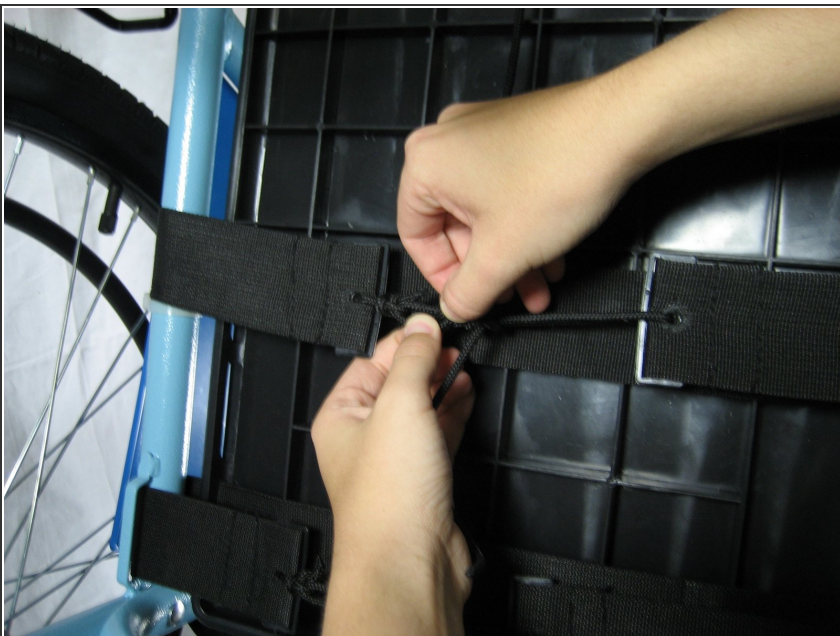


### Step 3



- **Undo** the seatbelt.
- **Remove** the seat cushion by pulling it off of the velcro.
- **Remove** the back padding by untying the straps attached to the back pad.

### Step 4



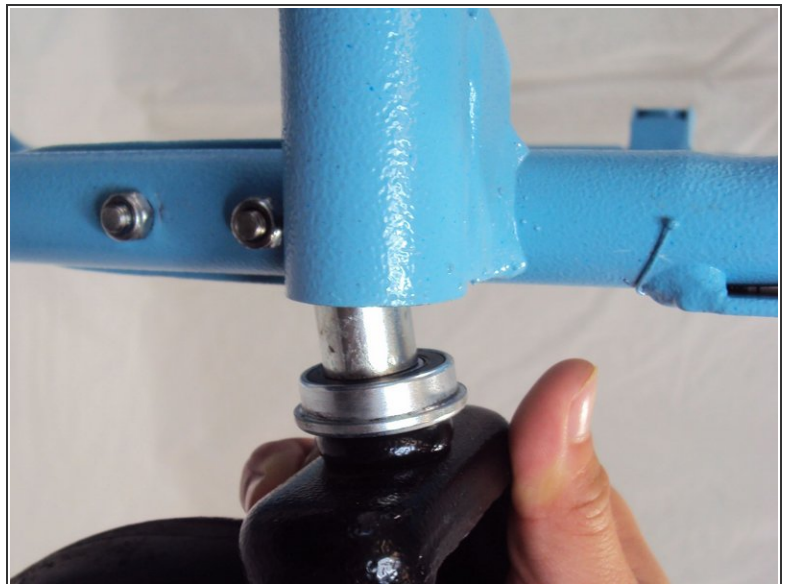
- **Turn** the wheelchair upside down and untie the plastic seat.
- **Remove** the plastic seat support.

## Step 5



- **Locate** the plastic cap on top of the caster wheels.
- **Place** the 10mm wrench underneath the plastic cap and lift it up to remove.

## Step 6



- **Remove** the caster wheels by unscrewing the bolt under the cap with a 19 mm wrench.
- **Lift** the wheelchair up to pull the caster wheels off.

**⚠ Use caution:** The metal sheath and the bearing of the caster wheel is not attached and may fall off upon removal.



## Step 7



- **Use** a 1/2 inch socket wrench to unscrew bolts to remove the brakes.
- **Pull** the brakes off.

## Step 8



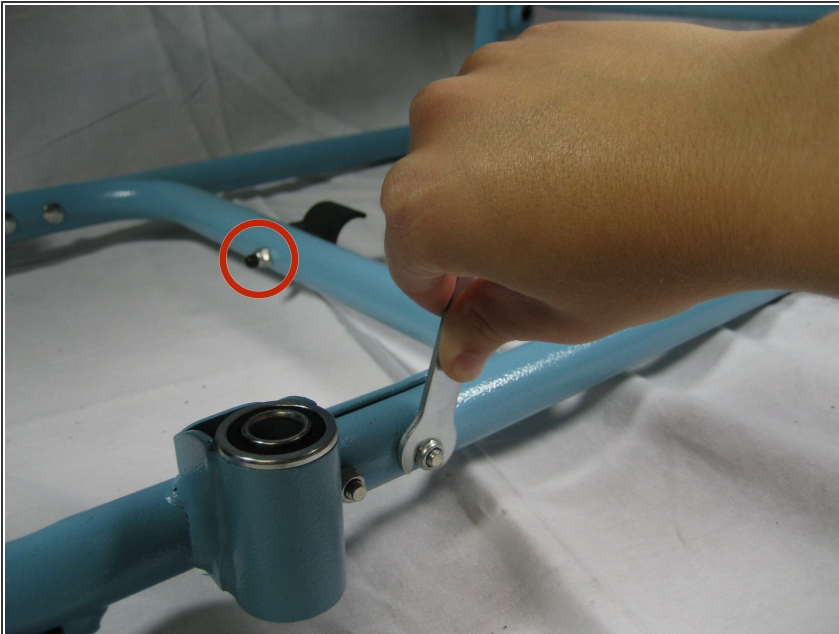
- **Remove** the wheels by placing a 19 mm socket wrench on the inside of the wheel and unscrew the bolt.
- **Unscrew** the bolt on the outside of the wheel by using a 19 mm socket wrench.

## Step 9



- **Unscrew** all of the 10mm bolts on the frame using the 10 mm wrench **(15 bolts total)**.
- **Separate** the handle frame pieces from the metal side structure **(2 bolts total)**.
- **Remove** the bolts attaching the three support beams **(4 bolts each, 12 bolts total)**.

## Step 10



- **Remove** the bolt with the rubber cap that attaches the air pump to the center support on the bottom.

## Step 11



- **Congratulations!** Your teardown is now complete. Make sure all of the parts are accounted for before storing or shipping.

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