



INSTRUCTION SHEET

ASSEMBLE A TENSION ADJUSTABLE BACKREST ON FOLDABLE WHEELCHAIRS



This document explains how to **assemble** a **nylon** or **Active-Mesh tension adjustable backrest** on **Motion Composites foldable wheelchairs**. This procedure can also be used to replace backrest straps or the backrest.

Wheelchair model(s)

Tool(s) and material required

- HELIO C2/A6/A7/XC2/Kids C2
- VELOCE
- MOVE

- Hexagonal key (Allen key): 3 mm

PARTS AND DISASSEMBLY

- Before you start assembling the tension adjustable backrest, make sure you have **all the parts on hand**.
 - **Parts** must be ordered from your **representative** or from **Motion Composites' Customer Experience team**. Have the serial **number** of the wheelchair on hand before ordering.
- Disassemble the installed backrest:
 - Raise the rear folding part of the backrest
 - Unscrew the two screws at the top of the backrest (3 mm hex key)
 - Remove the double top strap assembly
 - Pull on the velcro of the straps to be removed
 - Remove the straps from the fabric loops on the back of the backrest
 - When all the straps have been removed, the backrest is also free



- **NOTE:** The example **shown** in this document shows an **Active-Mesh tension adjustable backrest**. The assembly of a nylon adjustable tension backrest is **identical**.



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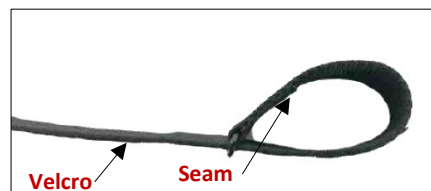
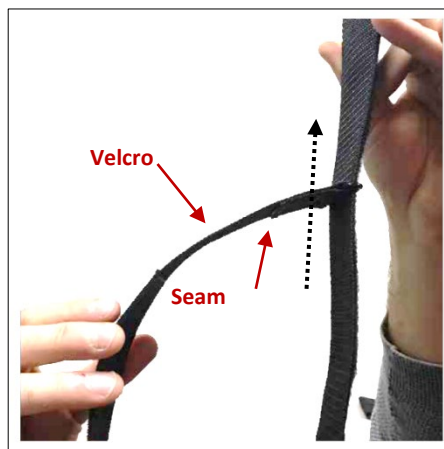
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PREPARE AND INSTALL THE BOTTOM STRAPS

- Prepare each of the straps:
 - **Most** wheelchairs have four **(4)** straps at the bottom. The **number of straps** may **vary** depending on the height of the **backrest**
 - Unfold the straps that are folded over themselves (photo) and held by velcro.



- Hold the strap in your hands, the velcro side is outward
- Insert the strap into the rectangular metal ring, as shown below
 - The seam should be found inside, and the velcro on the outside of the loop thus formed



- Install the straps on the chair:
 - Hold the strap with the **loop** you formed to **the left** and the **velcro towards you**
 - Put **the loop** you formed around the **left cane** of the backrest





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PREPARE AND INSTALL THE DOUBLE TOP STRAP ASSEMBLY

- Adjust the length of double top strap assembly to the width between the backrest canes:

- Pull out the two velcro attached sections of each strap
- Adjust to chair width
- Close the velcro on the two straps



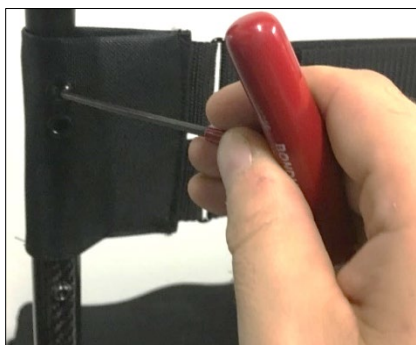
- Install the double top strap assembly on the chair:

- Hold the double top strap assembly, the eyelets **towards you** and **upwards**.
- Insert the **left end** into the backrest cane
- Repeat this step on the **right side**.
 - If the chair does not have a **push handles**, insert the end of the double top strap assembly into the **closed side** (opening at the bottom only) of the lining. The material lining will hide the end of the backrest cane.
 - If the chair has **push handles**, insert the end of the double top strap assembly into the **open side** (opening on both sides) of the lining



- Screw the double top strap assembly on each side:

- Place the **bottom eyelet** in line with the **hole in the backrest fixing screw**
- Use the **two (2) screws** you have disassembled
- Screw **without tightening too much** (3 mm hex key)
- **CAUTION: If the chair has folding push handles, screw the double top strap assembly into the top eyelet** (photos below)
 - If the screws are screwed into the bottom eyelet, the handles will be obstructed by the fabric from folding down properly





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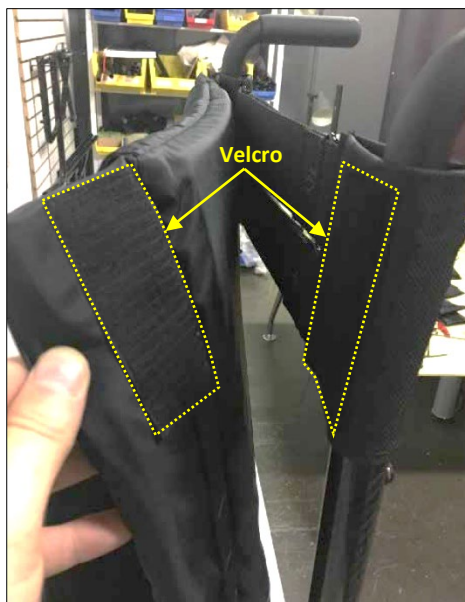
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INSTALL AND STRETCH THE BACKREST UPHOLSTERY

- Raise the rear folding part of the **backrest upholstery** (two photos)
- Note the **velcro strips** on both sides of the **top** (pictured right)



- **Install** the backrest upholstery on the chair **by aligning the velcro strips of the canvas** with those of the **double top strap assembly** at the top of the **backrest**. They must be at the same height.

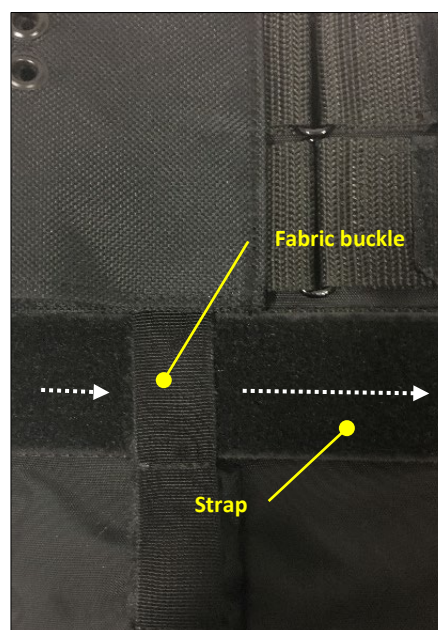
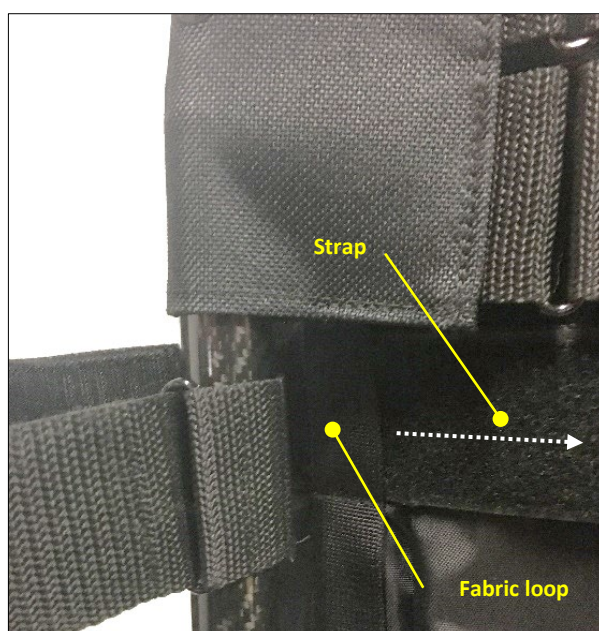




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- Insert the **straps** into the **fabric loops** of the **backrest**.
 - Notice how to start putting on a strap in the photo on the left



- The **bottom straps** are spaced as **follows** (example with 4 straps):
 - **Two straps** under the double top strap assembly
 - **Free loops**
 - **Strap**
 - **Free loops**
 - **Strap**
- This way of distributing the straps from top to bottom allows **better support** for the **user's back**
- **NOTE:** Depending on whether there are more or less straps, their distribution may vary

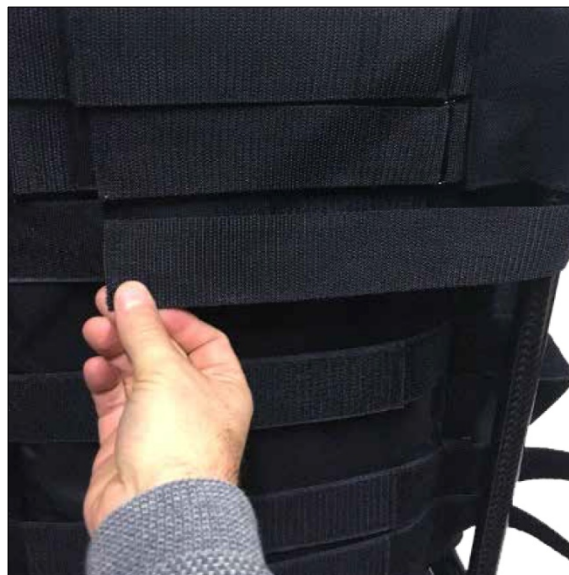




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- **Apply tension to the straps:**
 - Pull on the straps on the **right side**
 - **Stretch** the **straps** to apply the **desired tension** on the backrest **canvas**
 - **Close** the straps on themselves and press to fix the velcro of the **straps**
- **WARNING:** if the **straps** are **too tight**, it can prevent a folding chair from **opening fully** and the **seat rails** from **locking into place**



- **Fold down** the **back** of the **backrest upholstery**
- **Stretch the canvas** and **press** the **bottom of the** backrest canvas to attach it to the bottom **velcro strip**

