

# **matrx** HIGH BACK **x**



# INSTALLATION MANUAL





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# MaTRx High Back

## **i** IMPORTANT!

The MaTRx High Back and installation hardware provided by Motion Concepts is intended for use with tilt-only wheelchair systems. Due to the varying diameters of wheelchair backcanes, three unique hardware mounting kits have been developed to allow proper mounting onto **1" dia.**, **7/8" dia.**, or **1" and 7/8" combined** backcanes. **Please verify the correct sized hardware kit has been ordered prior to installation.**

## 1.0 Hardware Kit and Sizing Information

**! PLEASE NOTE**

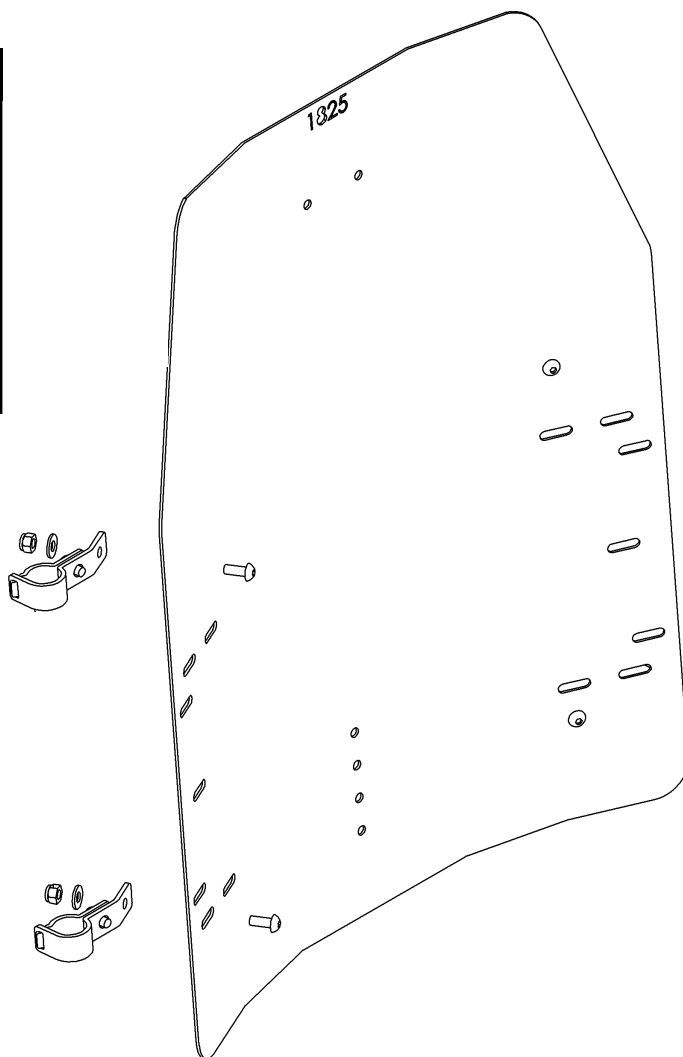
For information and/or assistance regarding back sizing, installation or missing components/ hardware, please contact our Customer Service Department for assistance.

**Canada: 866-748-7943**  
**USA: 888-433-6818**

**Hardware Kit Contents:**

- 4 - mounting brackets
- 4 - clamping plates
- 8 - 1/4" flat washers
- 4 - 1/4-20 Nyloc Nut
- 4 - 1/4-20 x 5/8" cap screw
- 4 - 1/4-20 x 1/2" cap screw

Hardware Kits:	
Back Cane Diameter	Hardware Kit
7/8" Back Canes	TRC0671
1" Back Canes	TRC0672
7/8" & 1" (Combined) Back Canes	TRC0673



MaTRx High Back Sizing Chart:			
High Back Dimensions	25" high	22" high	20" high
<b>15" wide</b>	MHB1525	MHB1522	MHB1520
<b>16" wide</b>	MHB1625	MHB1622	MHB1620
<b>17" wide</b>	MHB1725	MHB1722	MHB1720
<b>18" wide</b>	MHB1825	MHB1822	MHB1820
<b>19" wide</b>	MHB1925	MHB1922	MHB1920
<b>20" wide</b>	MHB2025	MHB2022	MHB2020
<b>21" wide</b>	MHB2125	MHB2122	MHB2120



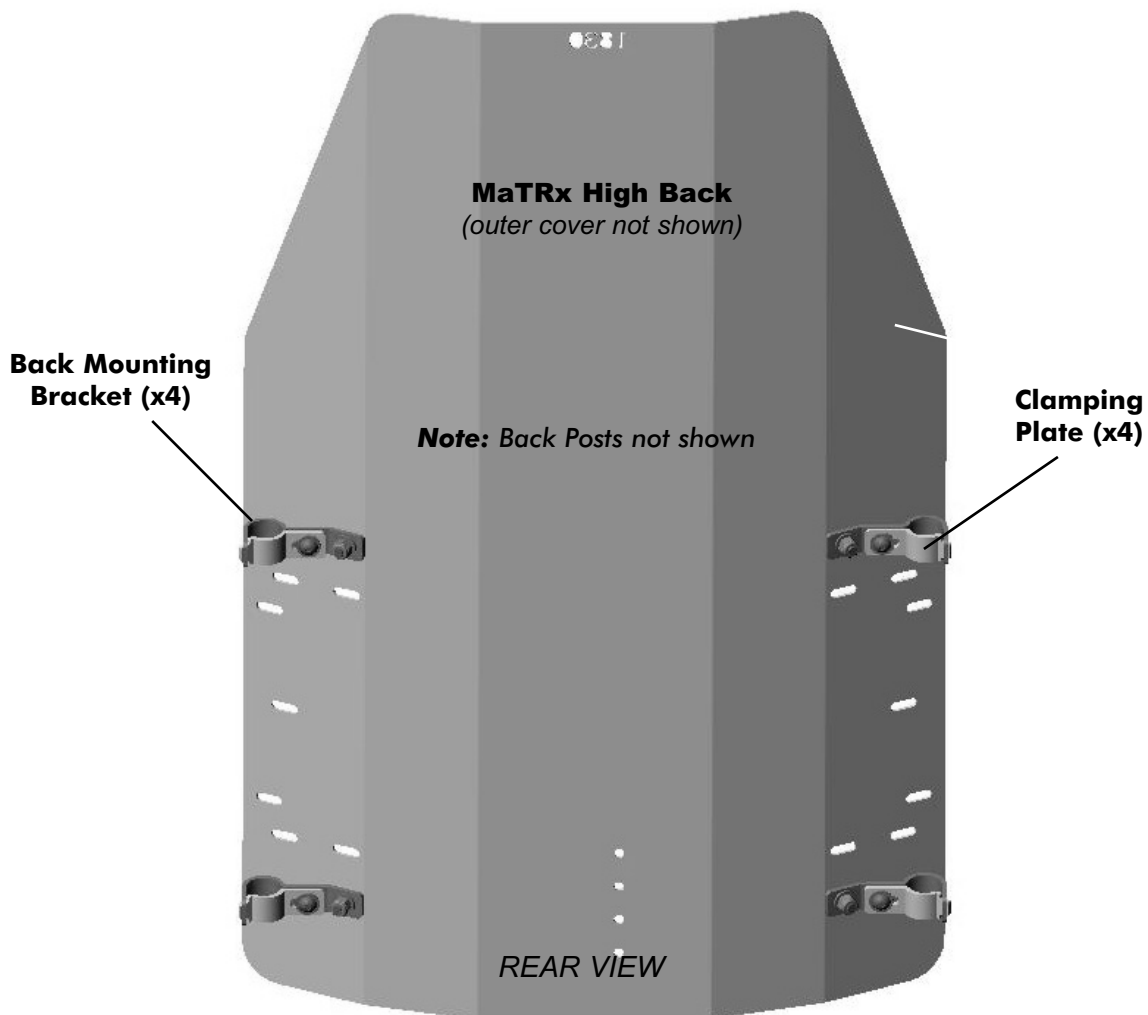
# MaTRx High Back

## **i** IMPORTANT!

Prior to installing the MaTRx High Back, remove the existing wheelchair back and all associated mounting hardware (if present).

## 2.0 Tools Required

- ◆ Wrenches: 1/4"
- ◆ Allen Key: 3/16"
- ◆ Small Hand-Clamps or Vice-Grips
- ◆ Tape Measure/ Ruler
- ◆ Spacer Blocks (to support back pan during installation)



## Lateral Installation Kits

The MaTRx High Back is designed to accommodate **Lateral Supports**, if desired. A separate Lateral Installation Kit may be ordered through our Customer Service Department. Each Lateral Kit will include two Lateral Multi-Rails, the two Swing-Away Laterals (*size/configuration to be specified on order form*), and all associated mounting hardware.

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## 3.0 Back Mounting Bracket Installation

Mounting Brackets may be mounted into one of two optional sets of mounting holes (slots) along the height of the backpan. The *upper* and *lower* mounting hole locations (see **Figure 2.** below) were designed to provide optional mounting locations to prevent interference from crossbraces, pushbars or any other components/ hardware that may pre-exist on the back canes.

1. Determine the appropriate back 'mounting height' for the client. (*note: the mounting height refers to the desired mounting position/ height of the back - measured from the bottom edge of the back pan to the top of the seat pan- see Helpful Hint below* ).



### HELPFUL HINT

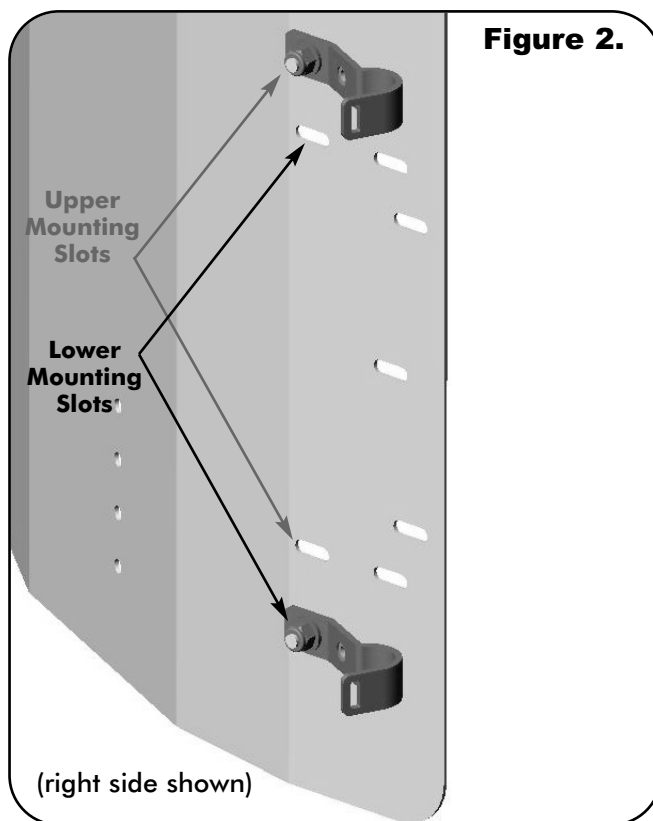
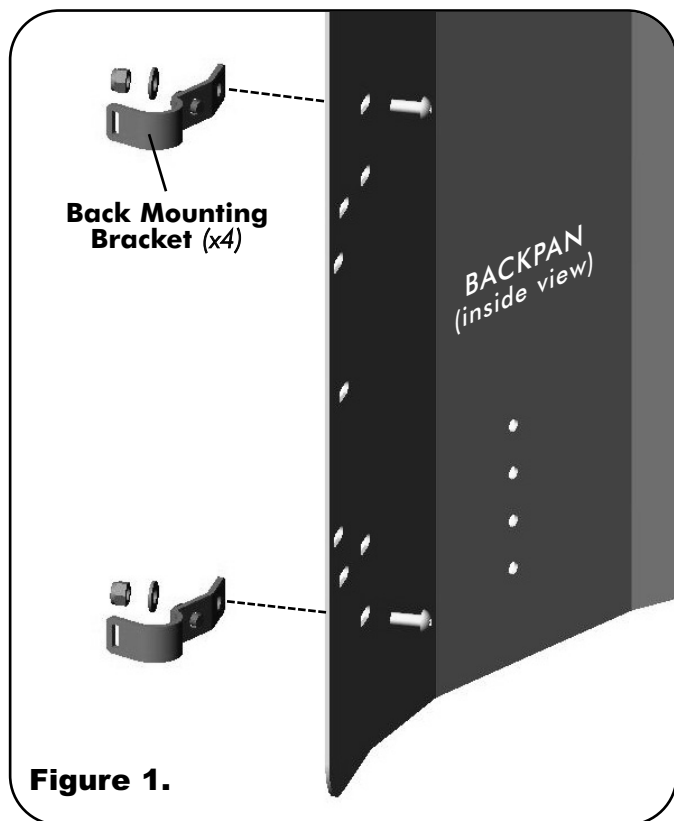
Due to the weight and size of the MaTRx High Back, **spacer blocks** (using foam or wood) are recommended to help support the back pan during installation and to position it at the desired mounting height.

2. Determine which mounting hole locations (on the backpan) are most appropriate, and install the 4 back mounting brackets onto the backpan using the hardware provided<sup>1</sup>. Ensure screws are inserted from the inside of the backpan (*refer to **Figure 1.** below for proper hardware orientation*).

**NOTE:** the hardware for the back mounting brackets should be snug, however, for ease of installation do not fully tighten at this time. The slotted holes in the backpan are designed to allow fine tune adjustment of the brackets & the backpan prior to final installation.

3 Place the MaTRx High Back (with mounting brackets) onto the wheelchair back canes, using the spacer blocks and additional clamps (if necessary) to hold the back pan in place. Complete any fine tune adjustments to the mounting bracket position and fully tighten hardware to secure all four brackets in place.

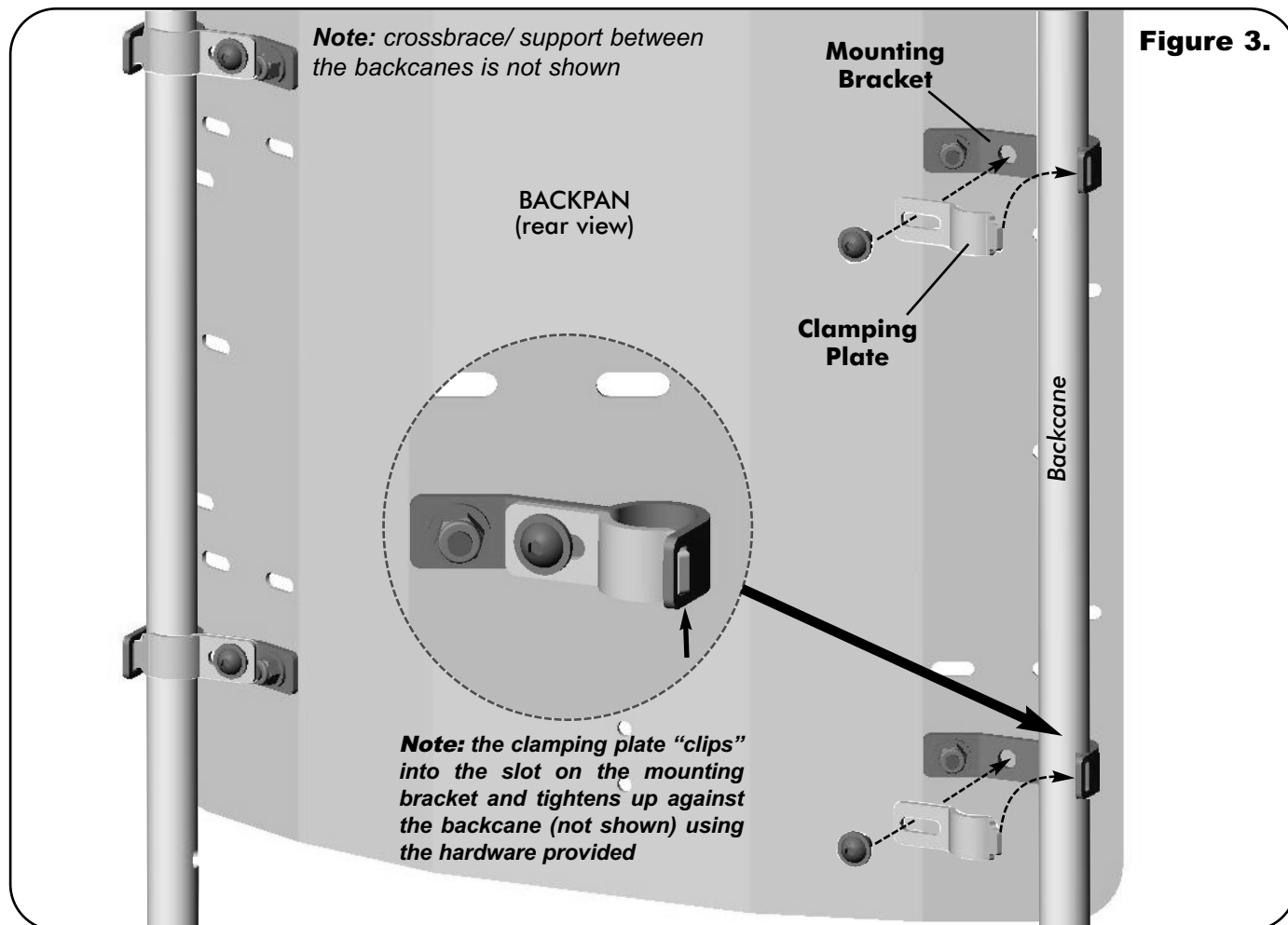
### Mounting Bracket Installation:



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## 4.0 Clamping Plate/ High Back Installation

With the MaTRx High Back clamped and/or 'blocked' at the desired height on the backcanes, the clamping plates can be installed to secure the back in place (refer to **Figure 3.** and instructions below).



### Clamping Plate Installation Instructions:

1. Begin by installing one clamping plate onto a mounting bracket on either side of the MaTRx High Back. (**note:** the second clamping plate should be installed directly opposite the first)
2. Insert the metal tab from the clamping plate into the notch/slot at the end of the mounting bracket (as illustrated in **Figure 3.** above).
3. Squeeze\* the clamping plate around the back cane and secure it in place using the hardware provided.  
**\*Note: the clamping plates are designed to form a very tight fit around the backcanes; a hand-clamp or vice-grips may be required to pinch the plate around the backcane and hold it in position while the hardware is being installed.**
4. After the first two clamping plates are installed, verify the back height/ position along the back canes and make adjustments (as needed) by loosening and re-tightening the clamping plates.
5. With the back position confirmed, install the two remaining clamping plates per steps 2-3 above.
6. Verify that **all** hardware is fully tightened (*including hanger brackets*), and ensure the MaTRx High Back is safely secured onto the wheelchair.

## **WARRANTY**

Every MaTRx High Back is carefully inspected and tested to provide optimum performance. Each back is guaranteed to be free from defects for a period of 24 months from the date purchase provided normal use. Should a defect in materials or workmanship occur within 24 months of the original date of purchase, Motion Concepts will, at its option, repair or replace it free of charge. This warranty does not apply to punctures, tears or burns, nor to the removable cushion cover.

The original back must be returned to the dealer and will become the property of Motion Concepts as a condition of processing the warranty claim. All warranty claims must be made through the dealer where the cushion was purchased. Except for express warranties made herein, all other warranties of fitness or use for a particular purpose are excluded. There are no warranties that extend beyond the warranties provided above. Remedies for breach of this warranty are limited to repair or replacement of goods. In no event shall damages for breach of any warranty include any consequential damages or exceed the original cost of the back.

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