

matrix-pb

POSTURE BACK



i IMPORTANT! The installation instructions contained in this manual should only be carried out by a qualified technician.

INSTALLATION / USER MANUAL

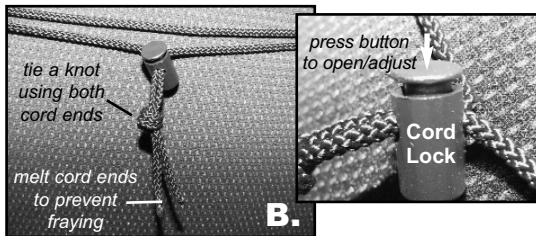
8.0 One-Hand Cord Release Mechanism (Optional)

Installation Instructions:

1. Thread the **Nylon Cord** through the holes in the latch mechanism at the top of the left and right mounting plates (see image **A.** below.)



2. Install the **Cord-Lock** mechanism onto the cord (see image **B.** below). Press the button to open the lock mechanism and slide the two open ends of the nylon cord through the opening.



3. With the back properly installed on the wheelchair, adjust the cord length so that it hangs at approximately a **35-45° angle** along the back pan (*this allows the release mechanism to operate more effectively*). If necessary, **cut/remove excess cord** to eliminate any risk of entanglement. Once adjusted, combine the loose cord ends into a single knot to prevent the cord-lock from slipping. (*Note: if the cord length was modified, carefully melt the ends of the cord to prevent fraying*)

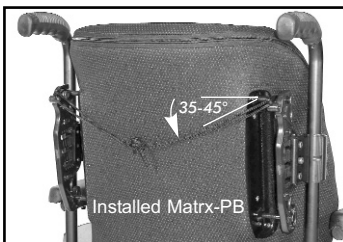




Table of Contents


- 1.0 Hardware Kit Contents
- 2.0 Tools Required
- 3.0 Before Installation - Important
- 4.0 MaTRx-PB Installation Instructions
- 5.0 Disengaging the MaTRx-PB
- 6.0 Removing the Cover/Care Instructions
- 7.0 Head/Neck Support Installation (Optional)
- 8.0 One-Hand Cord Release Mechanism (Optional)


SAFETY SYMBOLS:

Proper set-up and safe use of your Matrix-PB Back depends on your own good judgement and common sense, as well as that of your provider, caregiver and/or health professional. The following symbols are used throughout this manual to identify warnings, cautions and important notes. It is very important that you read and understand them completely.

 **CAUTION!** Failure to heed the cautions in this manual may result in damage to your MaTRx Seating product.

 **WARNING!** Failure to heed the warnings in this manual may result in personal injury.

 **IMPORTANT!** Important information to remember during installation and set-up of you MaTRx Seating product.

 **IMPORTANT!** Please refer to the Wheelchair Owners/ Operators Manual for additional safety information, warnings and cautions related to the operation of your wheelchair.

6.0 Removing the Cover/Care Instructions

The MaTRx-PB cover can be removed for laundering or providing access to the inside of the back for modification.

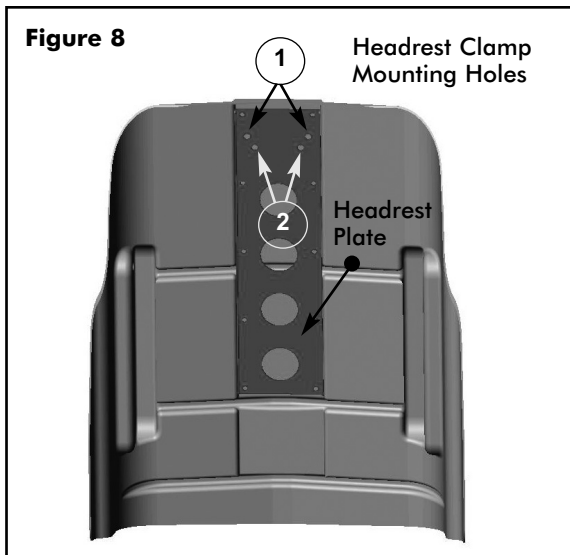
Open the zipper at the top and carefully remove the cover by releasing the velcro hook & loop fasteners along the sides of the back shell.

General Care and Cleaning: The cover may be easily wiped down with a damp cloth when necessary. For specific laundering directions, please follow the washing instructions provided with the cover.

7.0 Head/Neck Support Attachments (Optional)

All MaTRx-PB backs contain a built-in Headrest Plate which can be used for attaching optional Head and Neck Supports.

Two sets of headrest clamp mounting holes are provided in order to install most standard types of headrests (see **Figure 8** below). If required, additional holes may be drilled into the back pan and headrest plate to mount the necessary hardware.



3.0 Before Installation - Important!

Weight Capacities:

| MaTRx-PB | Back Width | Weight Capacity |
|------------|-------------|-----------------|
| Standard | 15" - 20" | 300 lbs |
| | 38cm - 51cm | 136 kg |
| Heavy-Duty | 20" - 24" | 500 lbs |
| | 51cm - 61cm | 227 kg |

The Mounting Plates are shipped pre-assembled on the Cane Clamps in the rearmost mounting configuration. This maximizes the seat depth on the wheelchair seat (up to a maximum 2.5" (64mm) rearward offset - see **Figure 1** below).

By changing the orientation of the Mounting Plates on the Cane Clamps, the assembly can be reconfigured* to provide a more forward mounting position for the back if desired (up to a maximum 2.5" (64mm) forward offset - see **Figure 2**)

Note: Each mounting plates is also designed to provide 1.5" (38mm) of fore and aft adjustment relative to the cane clamp

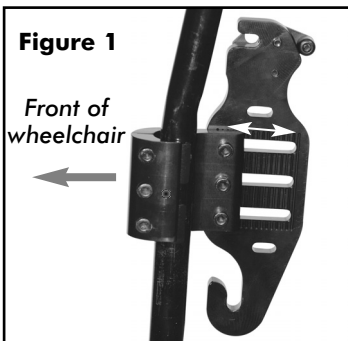
***To reconfigure a mounting plate/cane clamp to the forwardmost orientation:**

- detach the Mounting Plate from the Cane Clamp (3 screws);
- Rotate the Cane Clamp 180° and re-fasten it to Mounting Plate;
- Install Cane Clamp as illustrated in **Figure 2**.

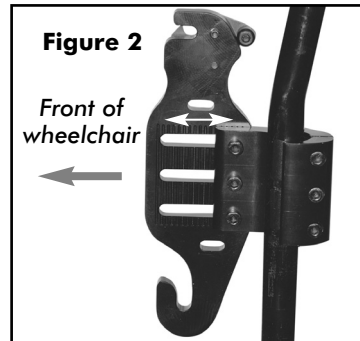
! PLEASE NOTE

When establishing the mounting position for the MaTRx-PB, ensure the stability of the wheelchair is not compromised.

Adjusting the forward and aft position of the backrest will alter the user's center of gravity within the wheelchair. A recessed back position can significantly reduce the rearward stability of the wheelchair. Similarly, a more forward back position will reduce the wheelchair's forward stability.



Mounting Plate in the rearmost back position (maximized seat depth).



Mounting Plate in the forward most back position.

4.0 MaTRx-PB Installation Instructions

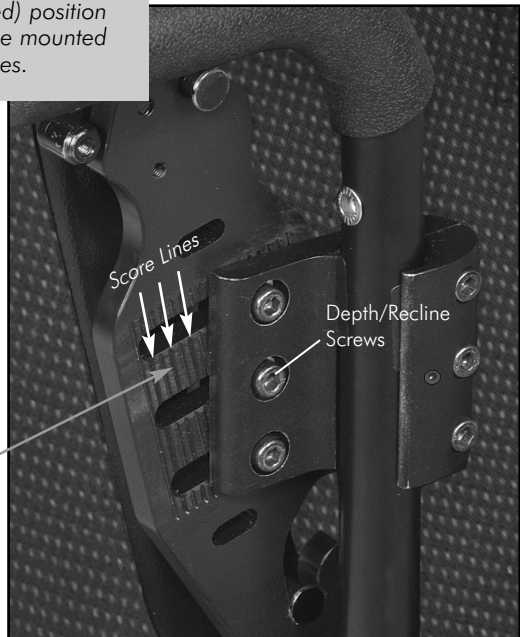
- 9 Verify that the overall fit and alignment of the back is correct (make adjustments as needed).
- 10 Fully secure the Cane Clamp Screws onto both back posts, and tighten the set screws to ensure the mounting plates do not slip or rotate.
- 11 To best determine the optimal depth & recline settings for the back, the user should be seated in the wheelchair. While seated, loosen the depth/recline screws on the mounting plates and adjust the back to the desired depth and recline angle. Re-tighten all screws to lock the back in position.

Ensure that the depth/recline adjustment for the back is made symmetrically* on the left & right mounting plates.

! PLEASE NOTE

The vertical score lines on the mounting plates are designed as a point of reference to assist with symmetrical mounting (see image below). Since the back can be mounted in a rotated (reclined) position if desired, it will not always be mounted parallel with these vertical lines.

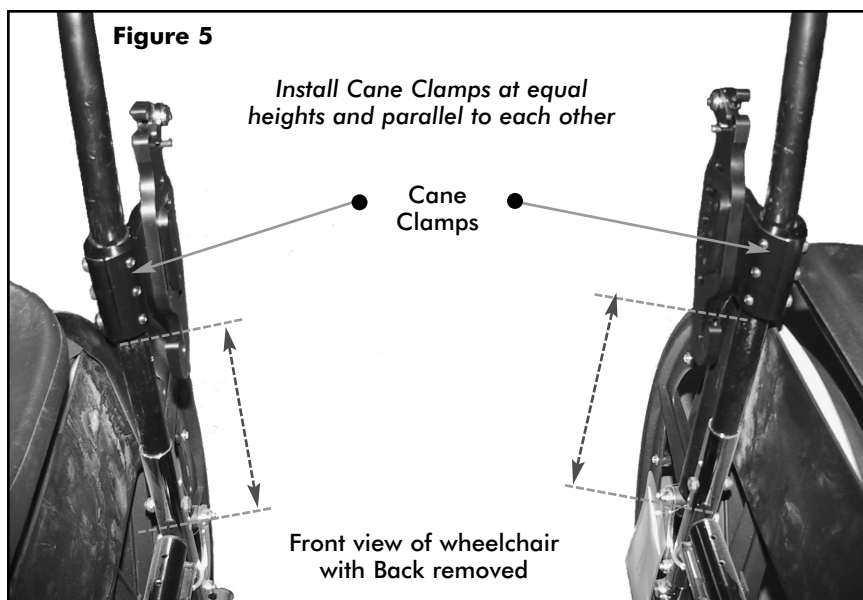
***Use score lines to make symmetrical adjustments on the left and right mounting plates.**



4.0 MaTRx-PB Installation Instructions

⚠ WARNING! The installation hardware provided is high strength and tested for durability. **DO NOT** substitute hardware. Use only the hardware supplied.

- 1 Remove existing wheelchair back upholstery (if applicable).
- 2 Establish the desired Mounting Plate set-up/configuration for the user (per **Section 3.0**).
- 3 Loosen Cane Clamp screws (x3) and loosely install the cane clamp (with mounting bracket) onto each back post. (*Install plastic inserts if required*).
- 4 Starting on one side, position the Cane Clamp at the desired height on the back post and tighten the clamp screws enough to hold it in place. (*Clamps and set screws will be fully tightened after the back is installed and all final adjustments have been made.*)
- 5 From a fixed point on the wheelchair (e.g. seat frame) measure the exact height of the *installed* Cane Clamp assembly, and install the second Cane Clamp at the same height on the opposite back post - see **Figure 5** below. Ensure the Cane Clamps/Mounting Plates are mounted parallel with each other.



4.0 MaTRx-PB Installation Instructions

7 Mounting Pin Configurations/ Set-Up:

! PLEASE NOTE

Our standard MaTRx-PB backs are available in 3 different widths (16" (41cm); 18" (46cm); and 20" (51cm)). Two sets of Mounting Pins are supplied with every MaTRx-PB (**standard pins and long pins**). Each backrest is factory assembled with standard mounting pins. Standard pins provide sufficient adjustability to install the Matrix-PB onto most typical wheelchair back canes, and are able to compensate for back cane widths up to 1" (25mm) narrower than the actual back width. However, long pins may be required in situations where the wheelchair seat frame (including back canes) is wider than the actual MaTRx-PB back width. The long pins will accommodate a wider base seat size up to 1" (25mm) wider than the actual back width.

Example: for a 16" (41cm) MaTRx-PB:

15" (38cm) wheelchair seat frame (back cane) width = **standard pins**

16" (41cm) wheelchair seat frame (back cane) width = **standard pins**

17" (43cm) wheelchair seat frame (back cane) width = **long pins**

Note: when the narrowest setting is used for the back, the depth/recline range will be less than in wider positions.

MaTRx-PB (Rear View)



! PLEASE NOTE

Extended Mounting Pins* (EMP) are available (sold separately) to allow interfacing of our PB-elite backs onto wheelchair seat frames up to 2" (5cm) wider than the actual back width.

* **Note:** EMP's are only for use with our standard back sizes (for up to 300lb (136kg) weight capacity); EMP's are not recommended for use in Tilt applications.