



# 2 Point PRO Mounting Hardware

Stealth's User Manual and Maintenance Guide for ADI's 2 Point PRO Mounting Hardware

Stealth Products strives for 100% customer satisfaction. Your complete satisfaction is important. Please contact us with feedback or suggested changes that will help improve the quality and usability of our products. You may reach us at:



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#### **General**

Read and understand all instructions prior to the use of the product. Failure to adhere to instructions and warnings in this document may result in property damage, injury, or death. Product misuse due to failure of the following instructions will void the warranty.

Immediately discontinue use if any function is compromised, parts are missing, loose, or show signs of excessive wear. Consult with your supplier for repair, adjustment, or replacement.

If this document contains information you do not understand, or there are concerns about safety or operation, contact your supplier.

#### **Important Information!**

All persons responsible for fitting, adjustment, and daily use of the devices discussed in these instructions must be familiar with and understand all safety aspects of the devices mentioned. In order for our products to be used successfully, you must:

- Read and understand all instructions and warnings.
- Maintain our products according to our instructions on care and maintenance.
- Devices should be installed and adjusted by a trained technician.

## **Supplier Reference**

Supplier:	
Telephone:	
Address:	
Purchase Date:	
Model:	

Introduction 3.0

Before you install or begin using this product, it is important that you read and understand the content of these operating instructions. These instructions will guide you through the options and possibilities with the 2 Point PRO Mounting Hardware.

Instructions are written with the expressed intent of use with standard configurations. They also contain important safety and maintenance information, as well as describe possible problems that can arise during use. For further assistance or more advanced applications, please contact your supplier or Stealth Products at (512) 715-9995 or toll free at 1-800-965-9229.

Always keep the operating instructions in a safe place so they may be referenced as necessary.

All information, pictures, illustrations, and specifications are based on the product information that was available at the time of printing. Pictures and illustrations shown in these instructions are representative examples and are not intended to be exact depictions of the various parts of the product.

### **Ordering Documentation**

You can download additional copies of this user manual on the Stealth website:

https://stlpro.site/stealth-docs

and search: 2 Point PRO Mounting Hardware User Manual in the search bar at the top of the page.

Warranty 4.0

Our products are designed, manufactured, and produced to the highest of standards. If any defect in material or workmanship is found, Stealth Products will repair or replace the product at our discretion. Any implied warranty, including the implied warranties of merchantability and fitness for a particular purpose, shall not extend beyond the duration of this warranty. Stealth Products, LLC does not warrant damage due to, but not limited to:

- Misuse, abuse, or misapplication of products.
- Modification of product without written approval from Stealth Products, LLC.
- Any alteration or lack of serial number, where applicable, will automatically void this warranty.
- Stealth Products, LLC is liable for replacement parts only.
- Stealth Products, LLC is not liable for any incurred labor costs.

No person is authorized to alter, extend, or waive the warranties of Stealth Products, LLC.

Stealth Products warrants against failure due to defective materials or workmanship:

Covers: 2 years

Hardware: 5 years

Electronics: 3 years

#### In Case of Product Failure

In the event of product failure covered by our warranty, please follow the procedures outlined below:

- 1. Call Stealth at +1 (512) 715-9995 or toll free +1-800-965-9229.
- 2. Request the Returns Department or obtain an RA from the Returns Department and follow department or documentation instructions.

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Warning Labels 6.0

#### **Warning Labels**

6.1

Warnings are included for the safety of the user, client, operator and property. Please read and understand what the signal words **SAFETY**, **NOTICE**, **CAUTION**, **WARNING** and **DANGER** mean, how they could affect the user, those around the user, and property.

⚠ DANGER	Identifies an <b>imminent</b> situation which (if not avoided) will result in <b>severe injury</b> , <b>death</b> , and <b>property damage</b> .
À WARNING	Identifies a <b>potential</b> situation which (if not avoided) will result in <b>severe injury</b> , <b>death</b> , and <b>property damage</b> .
⚠ CAUTION	Identifies a <b>potential</b> situation which (if not avoided) will result in <b>minor</b> to <b>moderate injury</b> , and <b>property damage</b> .
NOTICE	Identifies important information not related to injury, but possible <b>property damage</b> .
SAFETY	Indicates steps or instructions for safe practices, reminders of safe procedures, or important safety equipment that may be necessary.

#### **Limited Liability**

6.2

Stealth Products, LLC accepts no liability for personal injury or damage to property that may arise from the failure of the user or other persons to follow the recommendations, warnings, and instructions in this manual.

Testing 6.3

Initial setup and driving should be done in an open area free of obstacles until the user is fully capable of driving safely.

The 2 Point PRO Hardware should always be tested without any person sitting in the wheelchair until every alteration of the physical installation or adjustment is complete. Intended Use 7.1

ADI's 2 Point PRO mounting hardware is specifically designed for rigid frame wheelchairs, providing a non-removable mounting hardware while still offering angle, depth, and width adjustability.

Features 7.2

The 2 Point PRO Mounting Hardware:

- Adjustable positioning.
- Angle adjustment without the loss of seat depth.
- Depth and width adjustment.
- Compatible with all ADI backs.
- Compatible with active, deep, and extra deep contours.
- WC20 hardware option.



Mounting 7.3

The 2 Point PRO hardware is a non-removable hardware that still offers adjustments. This hardware has also been WC20 tested and approved to be used in transit ONLY if installed on a WC20 approved seat and WC19 approved chair frame.

## 2 Point PRO Hardware Package

8.1

The 2 Point PRO hardware can be ordered as a regular set of mounting hardware, or can be ordered as WC20 approved hardware.

Part Number	Product Description	
BR1103	Complete 2 Point PRO Mounting Hardware Package	Committee (manus)
BR1103 with BR6006	Complete 2 Point PRO WC20 approved mounting hardware package	Requires WCLB. Restant WC23- Base WC23- Sast/Back per RSMA WC-2012/SO 16840  45 Ib 22 kg  M Minimum 275 Ib 125 kg  M Maximum Stealth Products, LLC Model Seriat  DO NOT REMOVE TAGE HACING

8.2

## **2 Point PRO Replacement Parts**

Part Number	Product Description	
BR2PP	Mounting Kit– 2 Point PRO	
BR5001	U-Block Assembly	

Features 9.0

#### **2 Point PRO Hardware Features**

9.1

The 2 Point PRO hardware includes features such as angle, width, and depth adjustments.

#### **Angle Adjustment**

- Approximately 20° of adjustment.
- The loss of seat depth does not occur with the angle adjustment.



#### **Width Adjustment**

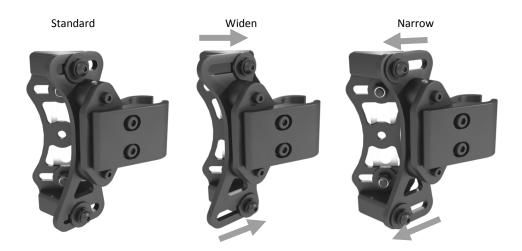
- Approximately ±1in. (2.54cm) of width adjustment is available.
- Hardware is compatible with widths starting at 10" up to 23".
- By loosening the screw on the hardware mounted to the back, adjustments can be made in an inward or outward direction from the chair.



Features 9.0

#### **Depth Adjustment**

- Approximately 1<sup>1/4</sup> " (3.18cm) of depth adjustment.
- Center mounting of hardware positions the back cushion valley behind the back posts.
- Forward mounting of hardware positions the back cushion forward 5/8".
- Aft mounting of the hardware positions the back cushion rearward 5/8".



Features 9.0

## **Cane Compatibility**

9.2

2 Point PRO hardware can mount to multiple sized cane clamps without the use of spacers:

• Hardware is compatible with 1", 3/4", and 7/8" cane diameters.



3/4" Clamp

#### **▲** WARNING

Only a qualified service technician may install the 2 Point PRO hardware.

Tools 10.1

- 4mm Allen Wrench
- 10mm wrench
- Torque wrench

Installation Plan 10.2

Set up an installation plan before installing the 2 Point PRO hardware onto the back. Based on the users' needs, this plan should specify:

- Where the clamps should be located on the canes.
- The proper height of the hardware for the user.
- The correct angles and depths of the hardware.

Installation 10.3

- Install the stud plate and u-block onto the back shell along the pre-cut slots.
- Determine the height of the hardware on the wheelchair back posts. Attach and secure the clamp assembly at the desired height. Refer to the installation instructions for the correct torque specifications required for tightening the hardware.
- Attach and align 2 Point PRO mounting hardware to the clamp.
- Determine the desired width, angle and depth to which the hardware should be placed.
   Make the appropriate adjustments and tighten to secure.



## WC20 Approved2 Point PRO Hardware

Stealth's User Manual and Maintenance Guide for ADI's 2 Point PRO Mounting Hardware

Testing 1.0

#### WC20 2 Point PRO Hardware

1.1

The 2 Point PRO mounting hardware has met WC20 and ISO16840-4 requirements and provisions. The hardware can be ordered as a WC20 approved item.

Transit pins not necessary to add to the hardware, but a WC20 label is provided and must be placed on the cover of the back in order to be WC20 compliant.

WC20 establishes design and performance requirements and test methods for complete seating systems that consist of a seat, back support, and attachment hardware.



#### **A** DANGER

The WC20 approved 2 Point PRO hardware and AL/AFT backs are designed ONLY for use with wheelchair frames that have been successfully crash tested to the frontal-impact requirements of RESNA WC-4:2012, Section 19.

#### **General Guidelines**

2.1

- Attach the tie-down straps only to the designated labeled transit security points.
- Tighten the straps sufficiently to remove all slack. Never attach tie-downs to adjustable, moving, or removable parts of the wheelchair.
- Position the anchor points for the rear tie-down straps directly behind the rear securement points on the wheelchair.
- The front tie-down straps should anchor to floor points that are spaced wider than the wheelchair to provide increased lateral stability.

#### **A** CAUTION

The WC20 approved 2 Point PRO Hardware and AL/AFT backs should only be used as described in the manufacturer's instructions.

Before Transit 2.2

 Client's who use wheelchairs should transfer to the vehicle seat and use the vehicle installed occupant-restraint systems.

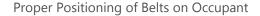
- Prior to transporting, always double check the tie-downs and hardware.
- On tie-downs and restraints, look for tears or worn webbing straps. Replace as necessary.
- Look for damaged hooks or loose tie-down hardware.
- On the seating system, check for loose screws attaching the hardware to the back. Check for loose screws attaching the hardware to the seat. These should be snug and not overtightened.
- The 2 Point PRO hardware should be securely attached to the back, and the transit pins should be properly inserted into the hardware.

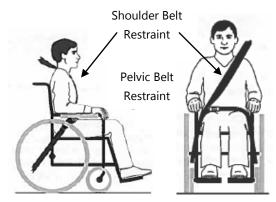
#### **A** DANGER

The WC20 approved 2 Point PRO hardware and the AL/AFT backs are designed specifically for occupancy when used on wheelchairs that are facing forward in motor vehicles.

#### **Belt Placement**

- The pelvic belt restraint should be worn low, across the front of the pelvis near the
  junctions of the pelvis and thighs.
- The belt restraint buckle of three-point belt restraints should be placed in contact with the occupant's body and away from wheelchair components.
- The junction of the shoulder belt and pelvic belt of three-point-belt restraints should be
  located near the hip opposite the shoulder over which the diagonal belt crosses and not
  near the midline of the occupant.





 Upper torso belt restraints should fit directly over, and in contact with, the middle of the shoulder.

#### **A**CAUTION

Belt restraints should be adjusted to fit as snugly as possible, consistent with user comfort.

#### **SAFETY**

Belt restraints should be positioned on the wheelchair occupant in accordance with WTORS manufacturer's instructions.

#### Improper Positioning of Belts on Occupant



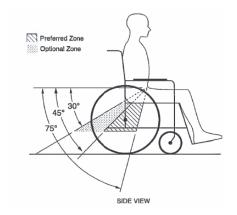
 Belt restraints should not be routed outside of the wheelchair wheels or over the wheelchair arm supports and should not be held away from the body by wheelchair components or parts.

#### **SAFETY**

# Belt restraints should not be worn twisted in a manner that reduces the area of contact of the belt webbing with the occupant.

Both pelvic-belt and shoulder-belt restraints that comply with RESNA WC-4:2012, Section 18 and/or 4.6,5.2,5.3 of RESNA WC-4:2012, Section 19 should be used to limit occupant movement in a crash and reduce the likelihood of occupant ejection from the vehicle and/or injurious contact of the occupant with the vehicle interior.

The pelvic belt should be angled between 30° to 75° horizontally when viewed from the side, and ideally between 45° to 75° horizontally, as shown in the figure below.



#### **A** WARNING

Back supports with adjustable recline angles should not be tilted back more than 30° to the vertical during travel in vehicles unless necessary for the medical and postural needs of the occupant.

#### **A** WARNING

If the back support must be adjusted to an angle that is greater than 30° to the vertical during travel, the upper shoulder-belt anchor point should be adjusted rearward to maintain belt contact with the wheelchair occupant's shoulder and chest.

#### **Trays**

Wheelchair-mounted rigid trays that are not specifically designed for use during travel in motor vehicles should be:

- Removed and secured separately in the vehicle.
- Secured to the wheelchair so they will not break free in a crash.
- Be positioned with a gap of at least 7mm (3in.) between the back edge of the tray and the
  wheelchair occupant's abdomen and/or chest so as not to interfere with proper beltrestraint use.
- Have energy absorbing padding placed between the back edge of the tray and the wheelchair occupant.

WC20 Safety 3.0

User Safety 3.1

The use of a postural pelvic belt attached to the wheelchair base or seat frame is encouraged during travel, but these belts should be positioned so that they do not interfere with the proper positioning of crashworthy belt restraints, and they should not be relied on for occupant protection in crash situations unless the postural belt has been designed to comply with, and perform to, the requirements of 4.6,5.2, and 5.3 of RESNA WC-4:2012, Section 19.

#### 🛕 DANGER

The WC20 approved 2 Point PRO hardware and AL/AFT backs have been designed to accommodate the proper use of vehicle-anchored belt restraints and the ratings of the seating systems with regard to ease of properly positioning vehicle-anchored belt restraints on the wheelchair passenger, and the degree to which proper positioning of belt restraints can be achieved.

#### DANGER

Alterations or substitutions should not be made to the seating system or to its parts and components without consulting the manufacturer.

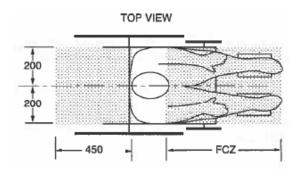
NOTICE

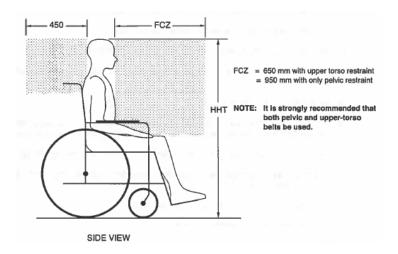
ADI's CF series backs are NOT WC-20 approved.

WC20 Safety 3.0

Sufficient forward and rearward clear space should be provided around the wheelchair occupant.

The forward clear-space zone (FXZ) needs to be larger when a shoulder-belt restraint is not used.





#### WC20 Hardware Installation

4.1

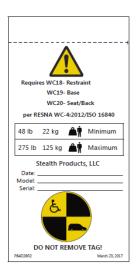
The WC20 approved 2 Point PRO hardware installation requires the same steps as that of the non WC20 approved hardware. Refer to the installation manual for step by step instructions.



#### WC20 Label Installation

4.2

The WC20 label will need to be secured to the cover of the ADI back cover if WC20 lanyards are ordered separately from the back and hardware. The label must be sewn to cover in order to be WC20 compliant.



Maintenance 5.0

Cleaning 5.1

- Use a soft cloth to clean the back shell.
- Ensure all cleaners are approved for finished steel, aluminum, plastic, and upholstered surfaces.

Disinfection 5.2

- Check and retighten all fasteners to the proper torque specifications. Reference the installation instructions to find proper torque specs.
- Repair or replace parts as needed.

#### **A** CAUTION

Always check all mounting hardware, making sure each fastener is properly tightened before using the back support.



250lbs (113.40 kg) user weight limit.

#### NOTICE

Altering an ADI back in any way and/or improper installation will void the warranty.

First Time Use 6.0

Dealer Assistance 6.1

During first time use by the client, it is advised that the dealer or service technician assists and explains the set-up to the customer (the user and/or the attendant). If needed, the dealer can make final adjustments.

**A** CAUTION

Do not attach the back with the user in the chair.

#### **SAFETY**

transportation.

Do not attach the ADI backs with the user in the chair or use them during

User Testing 6.2

It is important that the customer is fully aware of the installation, how the hardware works, and what can be adjusted. As a dealer, proceed as follows:

- Explain and show the customer how you have executed the installation, and explain the function of the hardware.
- If needed, adjust the hardware to the proper position.
- Explain to the customer possible problems and how to address them.

SAFETY

Do not use the backs during vehicle transportation.

#### Conditions of Use 6.3

The ADI hardware is intended for use as installed by the dealer, in accordance to the installation instructions in this manual.

- The foreseen conditions of use are communicated by the dealer or service technician to the user and/or attendant during the first time use.
- If the usage conditions change significantly, please contact your dealer or a qualified service technician to avoid excessive wear and tear or unintended damage.

Notes	7.0





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