



CUSTOM

INSTALLATION AND CARE INSTRUCTIONS

Stealth Products strives for 100% customer satisfaction. Your complete satisfaction is important. Please contact us with feedback or suggested changes to 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 to adhere to the following instructions will void the warranty.

Immediately discontinue use if any function is compromised, if parts are missing or loose, or if any component shows signs of excessive wear. Consult with your supplier for repairs, adjustments, or replacements.

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; and
- ensure devices are installed and adjusted by a trained technician.

Supplier Reference

Supplier: _____

Telephone: _____

Address: _____

Purchase Date: _____

Model: _____

These installation instructions will guide you through your product's options and possibilities. They are written with the expressed intent of use with standard configurations. They also contain important safety and maintenance information and describe possible problems that may arise during use. For further assistance or more advanced applications, please contact your supplier or Stealth Products, LLC at (512) 715-9995 or toll free at (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.

CAUTION

These products are designed to be fitted, applied, and installed exclusively by a healthcare professional trained for these purposes. The fitting, application and installation by a non-qualified individual could result in serious injury.

Ordering Documentation

You can download additional copies of this user manual by accessing the Stealth website (<https://stlpro.site/stealth-docs>) and searching "Custom Cushion Owner's Manual" in the search bar at the top of the page.

Our products are designed, manufactured, and produced to the highest of standards. If any defect in material or workmanship is found, Stealth Products, LLC 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; and/or
- modification of products without written approval from Stealth Products, LLC.

Any lack or alteration 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 for a period of:

Covers/Soft Goods: 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 Products at (512) 715-9995 or toll free at (800) 965-9229.
2. Request a Return Authorization form (RA) from the Returns Department and follow the instructions on the document.

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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 **DANGER, WARNING, CAUTION, NOTICE** and **SAFETY** mean, and how they could affect the user, those around the user, and property.

DANGER

Identifies an **imminent** situation which, if not avoided, may result in **severe injury, death, and/or property damage**.

WARNING

Identifies a **potential** situation which, if not avoided, may result in **severe injury, death, and/or property damage**.

CAUTION

Identifies a **potential** situation which, if not avoided, may result in **minor to moderate injury, and/or property damage**.

NOTICE

Identifies important information not related to injury, but possible **property damage**.

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.

Stealth Products, LLC does not hold responsibility for final integration or final assembly of product to end user. Stealth Products, LLC is not liable for user death or injury.

Intended Use

7.1

Stealth Products' **Custom Cushion** is designed to provide optimal fitting for individuals requiring solid seats to support minimal deformities or stability needs, and who require moderate postural support, improved trunk or pelvic positioning, or have mild pelvic asymmetries.

Features

7.2

The **Custom Cushion** features numerous customizable options and accommodations to provide the best fit for each user. Customizable options include:

- Frame Width and Seat Depth
- Cover Material
- Cushion Shape
- Cushion Base
- Growth Notches
- Hamstring Relief Depth
- Leg Length Discrepancy Cuts
- Anti-Thrust
- Abduction and Adduction Options
- Cushion Foam Composition
- Ischial Gel Inserts
- Accessories (Zippered Pouch, Extra Cover, Incontinence Liner)

Installation Instructions

Preparations

8.1

Only a qualified service technician may install the **Custom Cushion** and its accessories.

WARNING

Incorrect installation of the **Custom Cushion** or its accessories may cause damage to the hardware and/or injury to the user.

Tools

8.2

Use the proper tools to install and adjust the **Custom Cushion** to the desired position for the user.

CAUTION

The use of improper tools may cause damage to the device.

Installation Plan

8.3

Set up an installation plan before beginning the installation. This plan should take into account:

- where the **Custom Cushion** will be placed;
- how the **Custom Cushion** will be operated, including the release functions for the hardware options; and
- a sufficient amount of clearance for other hardware and accessories.

CAUTION

Any connection must always be secured with all delivered screws. Only use the screws provided in the package.

Required Tools

8.4

Below are the tools needed to complete the installation of the cushion hardware systems:



Tool:
5/32" Hex Key

CAUTION

Tools required to install additional accessories are detailed in the manuals for those accessories.

Tools are not provided. Refer to the manuals provided with additional accessories for a list of the tools required to install those accessories.

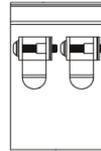
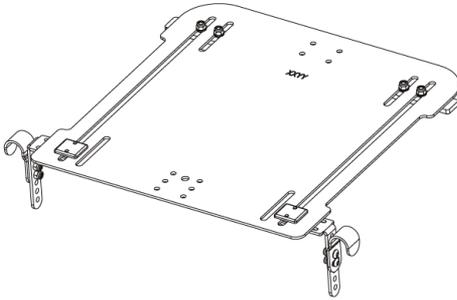
Hardware System Assemblies

8.5

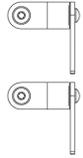
When coupled with a seat pan, the **Custom Cushion** is able to be installed on wheelchairs via three different hardware options. Each hardware option can be ordered to fit on 3/4", 7/8", or 1" wheelchair canes.

(Note: Two-point assemblies pictured.)

J&L Hardware:



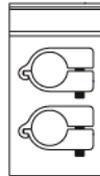
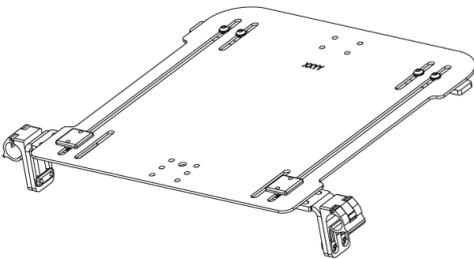
Hold Down Drop Stop Weldments



Rotating Hold Down Drop Stop Weldments

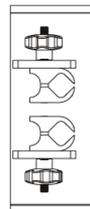
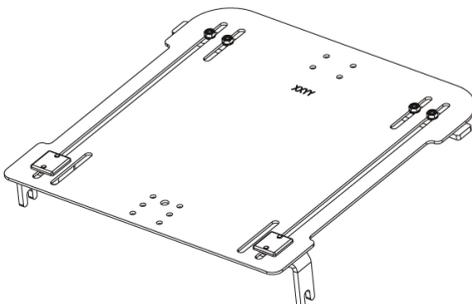
(Note: Four-point J&L hardware assemblies will include two rotating weldments, to be outfitted at the back of the chair.)

Trouble Free Hardware:

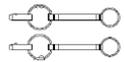


Female/Male Tube Stop Clamps

All-Purpose Hardware:



All-Purpose Knob Clamps



Transit Locking Pins

(Note: Four-point All-Purpose hardware assemblies will include four WC20-labeled locking pins.)

Hardware System Installation

8.6

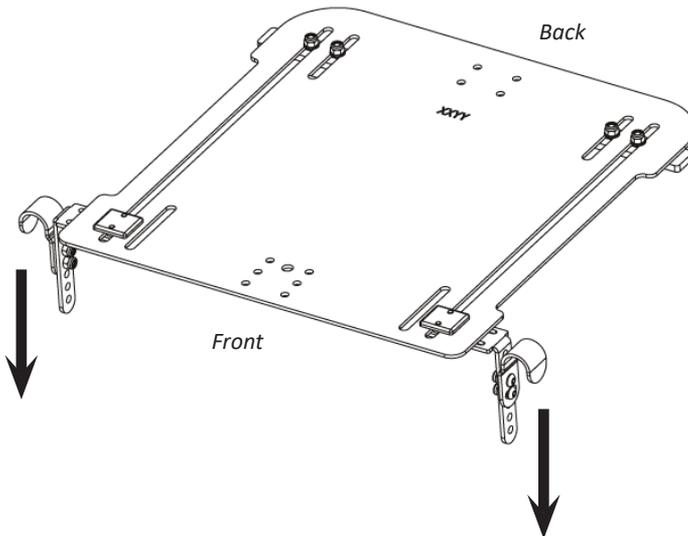
This section details how to install the cushion to the wheelchair with the three available hardware configurations.

Please note that the hardware is functional whether it faces outward (as is pictured) or inward. The amount of space, clearance, and the type of chair are the determining factors in installation compatibility.

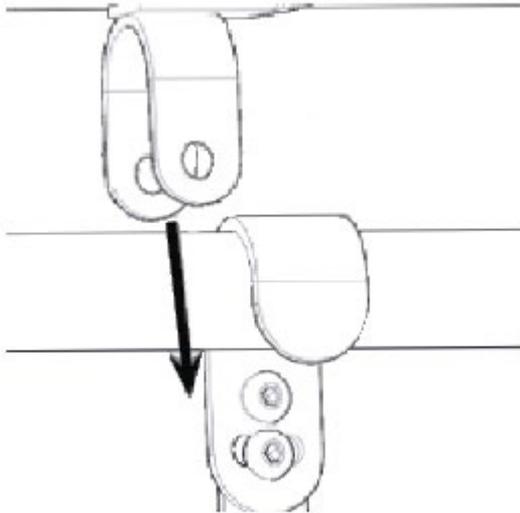
J&L Hardware Installation:

The J&L hardware attaches to a wheelchair in two-point or four-point options. The following instructions are for the two-point option. In order to install the four-point option, simply repeat the following steps for the two remaining hardware sub-assemblies.

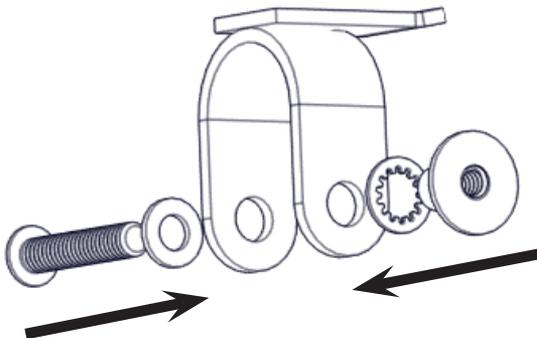
Step One: Place the seat pan assembly onto the wheelchair canes so that the hardware is at the front of the chair.



Step Two: Using a 5/32" hex key, remove the screws, washers, and nuts from the Hold Down Drop Stop Weldments. Position the weldments just outside the J-clips on the wheelchair cane.



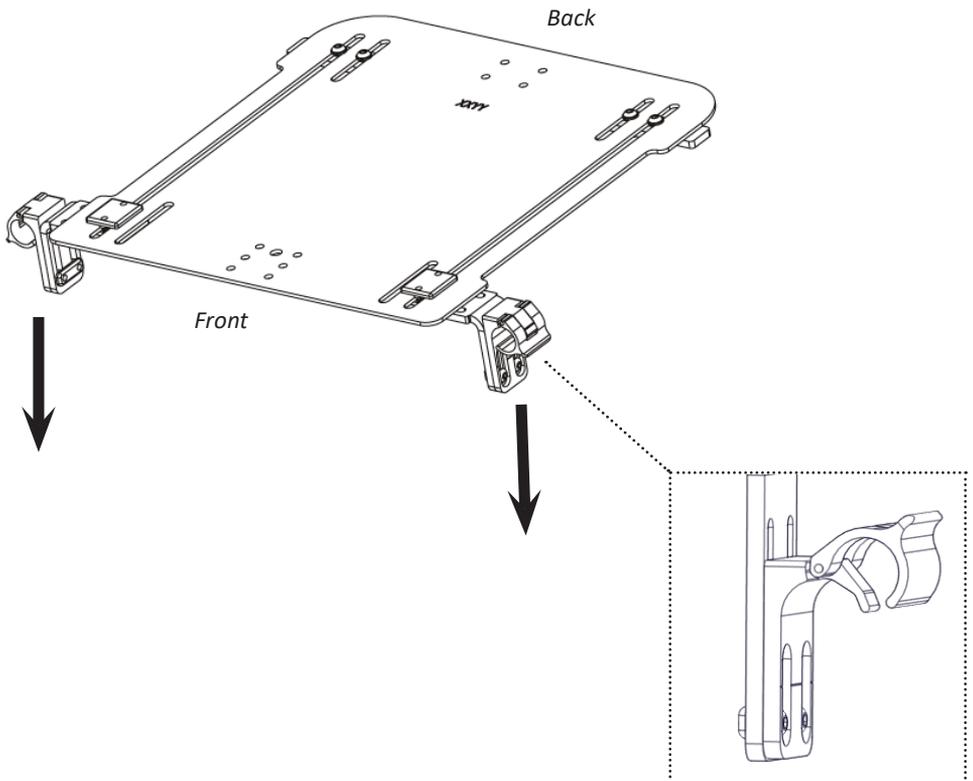
Step Three: Use the 5/32" hex key to replace the screws, washers, and nuts from the weldments and tighten firmly.



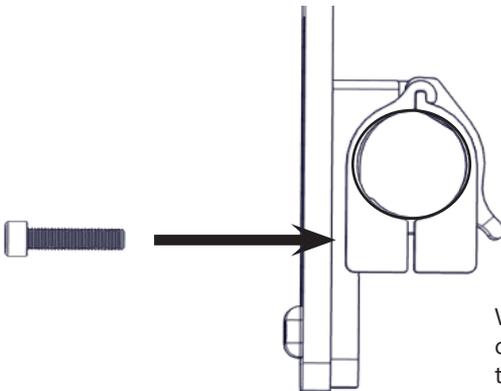
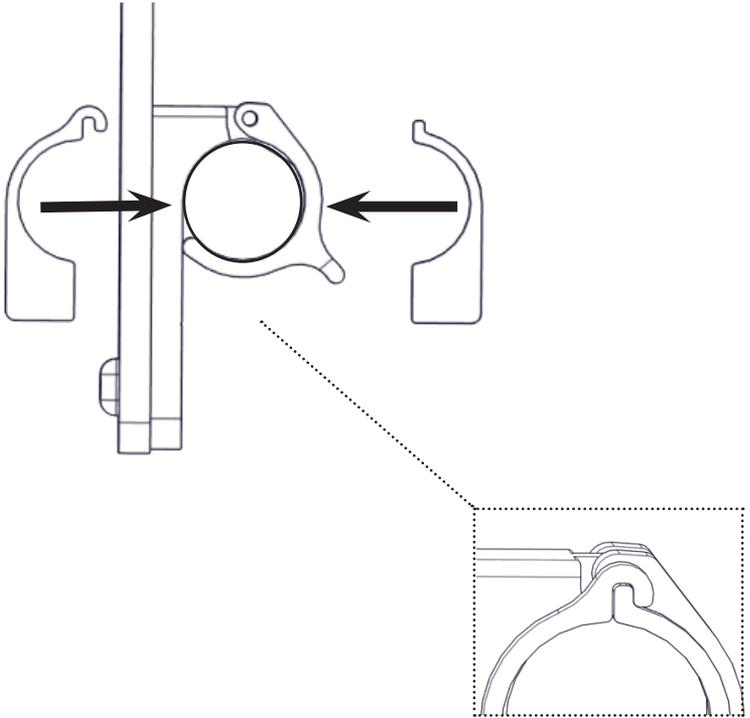
Trouble Free Hardware Installation:

The Trouble Free hardware attaches to a wheelchair in two-point or four-point options. The following instructions are for the two-point option. In order to install the four-point option, simply repeat the following steps for the two remaining hardware sub-assemblies.

Step One: Unlatch the clasps of the hardware attached to the seat pan, then place the seat pan assembly onto the wheelchair canes so that the hardware is at the front of the chair. When the seat pan is in position, re-latch the clasps.



Step Two: Join the Female/Male Tube Stop Clamps around the wheelchair canes.

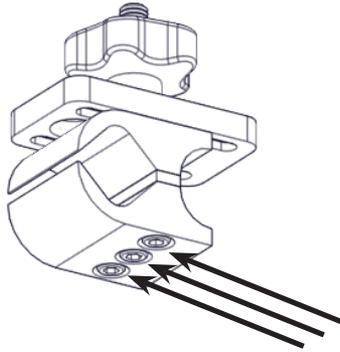


When the clamps are positioned correctly, use a 5/32" hex key to tighten the screws through the tube stop clamps.

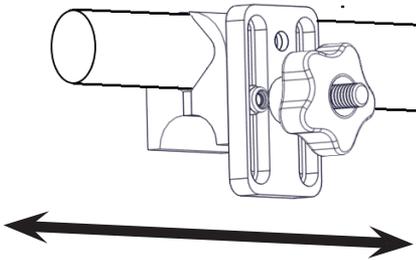
All-Purpose Hardware Installation:

The All-Purpose hardware attaches to a wheelchair in a two-point or a WC20-approved four-point option. The following instructions are for the four-point option.

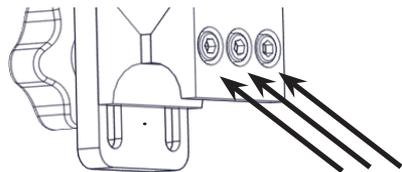
Step One: Using a 5/32" hex key, slightly loosen the three screws in the base of each knob's clamp, pictured below.



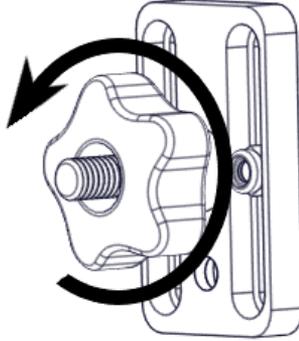
Step Two: With the clamp screws now loosened, slide the clamps onto the wheelchair canes.



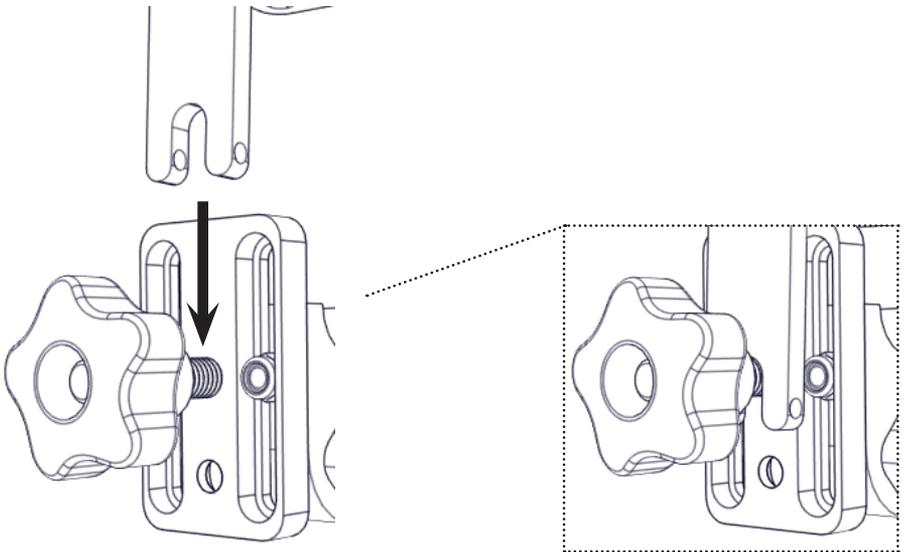
Determine an ideal position for each knob assembly, then tighten down the clamp screws to secure it in place.



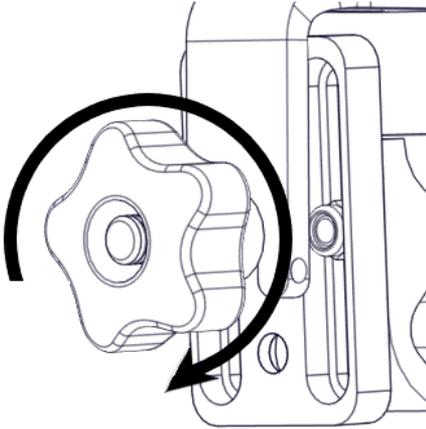
Step Three: Turn the knobs counterclockwise to loosen them and expose the knob's center screw.



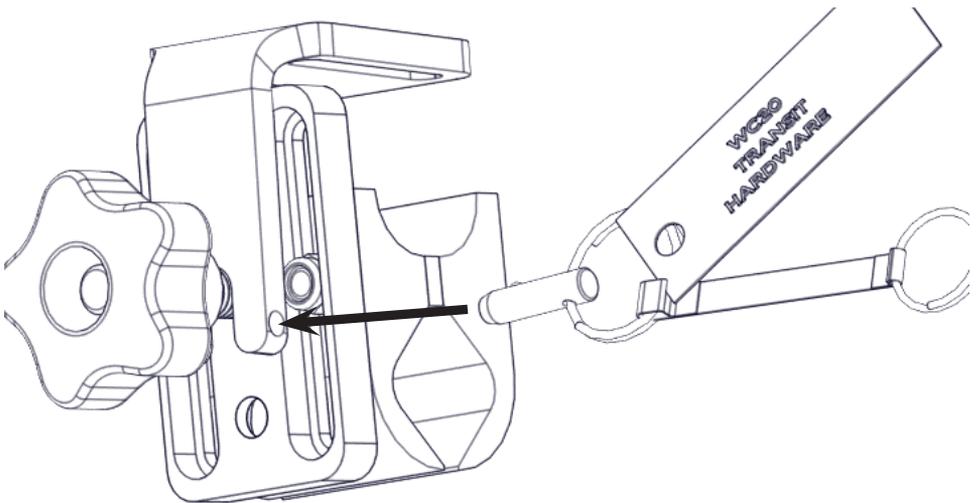
Step Four: Place the seat pan assembly onto the knob assembly. Ensure the seat's L-brackets are flush with the knobs' exposed center screws.



Step Five: Turn the knobs clockwise to firmly tighten them against the L-brackets.



Step Six: In order to comply with the provisions and requirements of WC20, the provided locking pins must be inserted in the through-holes of each L-bracket, as illustrated below.



WC20 All-Purpose Hardware

9.1

The **All-Purpose** hardware, when utilized as part of a four-point configuration, has met WC20 and ISO16840-4 requirements and provisions. The **All-Purpose** hardware *must* have locking pins inserted and *must* be applied in a four-point configuration to be WC-20 approved.

CAUTION

The WC20-approved **All-Purpose** hardware and **Custom Cushion** should only be used as detailed in these instructions, and only meet WC20 requirements when used in conjunction with a WC20-approved back and wheelchair.

WC20 establishes design/performance requirements and test methods for complete seating systems (i.e., consisting of a seat, back support, and attachment hardware) as they relate to their use as seats in motor vehicles.

Before Transit

9.2

- Clients 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. *Never* use torn straps.
- Look for damaged hooks or loose tie-down hardware.
- On the seating system, check for loose screws attaching the hardware to the seat. These should be snug and not over-tightened.
- The **All-Purpose** hardware should be securely attached to the chair, and the transit pins should be properly inserted into the hardware.

DANGER

The WC20-approved **All-Purpose** hardware is designed specifically for occupancy when used on wheelchairs that are facing forward in motor vehicles.

⚠ DANGER

The WC20-approved **All-Purpose** hardware has been designed to accommodate the proper use of vehicle-anchored belt restraints and the ratings of the seating systems, with regard to a) ease of properly positioning vehicle-anchored belt restraints on the wheelchair passenger, and b) the degree to which proper positioning of belt restraints can be achieved.

⚠ DANGER

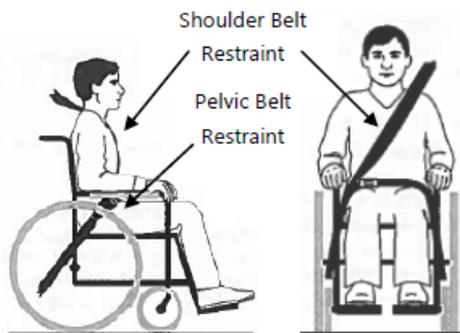
Alterations or substitutions should not be made to the product or to its parts and components without consulting the manufacturer.

Belt Placement

9.3

- The pelvic belt restraint should be worn low, across the front of the pelvis near the junction 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.

Proper Positioning of Belts on Occupant



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

⚠ CAUTION

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

Improper Positioning of Belts on Occupant

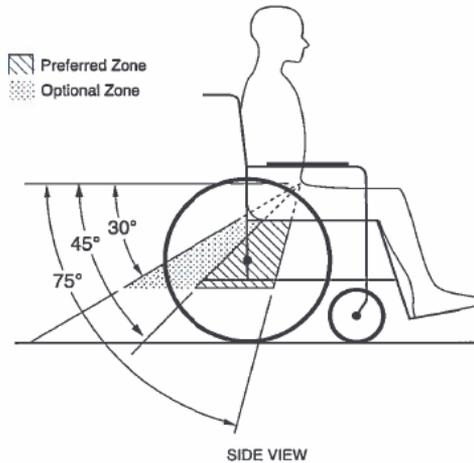
- Belt restraints should not be routed outside of the wheelchair wheels or over the wheelchair arm supports and should not be held away from the body by wheelchair components or parts.

SAFETY

Belt restraints should not be worn twisted or 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 or 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° and 75° horizontally when viewed from the side, and ideally between 45° and 75° horizontally, as shown in the figure below.



⚠ 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.

⚠ WARNING

If the back support must be adjusted to an angle 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; or
- secured to the wheelchair so they will not break free in a crash;
- positioned with a gap of at least 3in. (75mm) between the back edge of the tray and the wheelchair occupant's abdomen and/or chest so as not to interfere with proper belt-restraint use; and
- equipped with energy-absorbing padding between the back edge of the tray and the wheelchair occupant.

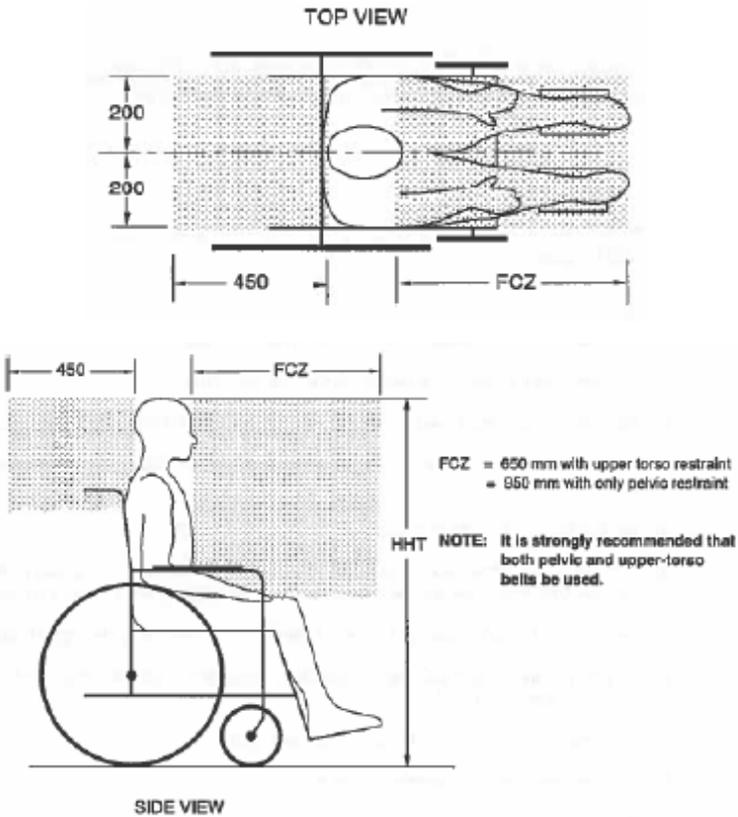
User Safety

9.4

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 upon for occupant protection in crash situations unless the postural belt has been designed to comply with, and perform to, the requirements in 4.6, 5.2, and 5.3 of RESNA WC-4:2012, Section 19.

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

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



(Note: Dimensions in pictures measured in millimeters.)

When mounting the WC20-approved **All-Purpose** hardware to your wheelchair, refer to the installation instructions starting on page 3.

⚠ DANGER

The WC20-approved **All-Purpose** hardware is 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

⚠ WARNING

The WC20-approved **All-Purpose** hardware *must* be used on a wheelchair frame that provides four securement points and pelvic belt anchor points that conform to the requirements of RESNA WC-4:2012, Section 19.

Dealer Assistance

10.1

During first-time use by the client, it is advised that the dealer or service technician explain and assist in the configuration of user positioning to the customer (the user and/or the attendant). If needed, the dealer can make final adjustments.

User Testing

10.2

It is important that the customer be fully aware of the installation of the **Custom Cushion**, including how to use it and how it can be adjusted to fit the client comfortably. As a dealer, proceed as follows:

- Explain and show the customer how you have executed the installation and explain the function.

Have the user test the position of the seating system.

- Is the hardware in the proper position for the client?
- Can the user safely operate all controls with minimal effort?

If needed, make any adjustments to the positioning. Explain to the customer possible problems and how to address them.

Conditions of Use

10.3

The **Custom Cushion** 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 unintended damage.

Cleaning

11.1

- Use a soft cloth to clean the hardware and seat pan.
- Ensure all cleaners are approved for finished steel, aluminum, plastic, and upholstered surfaces.
- To wash the cover, remove from the foam. *Do not* get the foam wet.
- Soap and water with a brush can remove dirt and debris in the zipper teeth.

To clean the covers of the cushion:

- Remove the covers from the foam; *do not* get foam wet.
- Machine wash in cold water on delicate cycle and drip dry.

WARNING

Do not bleach.
Do not iron.
Do not hand wash in water temperatures above 160°F (70°C).
Do not machine dry.

Fabric care instructions can be found on the covers of the cushion.

CAUTION

Extreme temperatures can affect the temperature of your cushion components and may lead to skin irritation. Use caution when your mobility device has been used or stored in an extremely hot or cold environment.

CAUTION

The cushion cover is not intended for direct contact with bare skin. Failure to comply may result in skin irritation.

CAUTION

Take care when zipping and unzipping the cover as to not catch hair, wires, or anything else which could be caught in the zipper path.

Disinfecting

11.2

- Wipe gently with a cloth dampened with a household disinfectant.

WARNING

Do not immerse foam in water.

Maintenance

11.3

The following care and guideline instructions will keep hardware and covers in good condition for a longer period of time, and will prevent damage:

- check and re-tighten all fasteners on a regular basis;
- check pads and covers for any signs of breakdown;
- repair or replace parts as necessary; and
- routinely remove dust and dirt from any hardware with a soft, damp cloth.

CAUTION

Altering the fitted position set by your healthcare professional can lead to pinching of the skin, skin abrasions, or decubitus ulcers (bedsores). Maintain the cushion in the prescribed position to ensure safe, comfortable use.

CAUTION

Weight Capacity, 10"-14": *175lbs.*
Weight Capacity, 15"-20": *300lbs.*

CAUTION

After installing, ensure nothing scrapes or comes into contact with the cushion.

CAUTION

Check all mounting hardware before using the cushion, making sure each fastener is properly tightened.

CAUTION

Do not smoke while using the **Custom Cushion**.

CAUTION

Ensure that safety belts, if used, are properly installed.

SAFETY Replace or repair parts as needed.

NOTICE

Improperly installing or altering a cushion in any way will void its warranty.



STEALTH PRODUCTS, LLC | 104 John Kelly Drive | Burnet, Texas 78611 | (800) 965-9229 | stealthproducts.com