



**USER MANUAL**

**Stealth Products**

Positioning & Support



## i2i Head & Neck Positioning System

Stealth's User Manual and Maintenance Guide for  
the i2i Head & Neck Positioning System

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:

104 John Kelly Drive, Burnet, TX 78611

Phone: (512) 715-9995      Toll Free: 1(800) 965-9229

Fax: (512) 715-9954      Toll Free: 1(800) 806-1225

info@stealthproducts.com      www.stealthproducts.com

## 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 shows signs of excessive wear. Consult with your supplier for repair, adjustment, or replacement.

## 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: \_\_\_\_\_

Before you install or begin using this product, it is important that you read and understand the content of these installation and operating instructions. The installation instructions will guide you through the possibilities with the i2i Positioning System.

Instructions are written with the expressed intent of use with standard configurations. They also contain important safety and maintenance information. 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:  
[www.stealthproducts.com/gui/docs.?type=usr&](http://www.stealthproducts.com/gui/docs.?type=usr&)

Or search:

i2i User Manual in the search bar at the top of the page.

The pads/covers are designed and produced to the highest of standards. Our pads/covers are guaranteed to be free of defects in material and workmanship for a period of 24 months. If any defect in the material or workmanship is found, Stealth Products will repair or replace, at our discretion, the pad/cover for the product. This warranty does not apply to headrests abused or misused by the user and deemed such by Stealth Products, LLC.

Claims and repairs should be processed through the nearest Stealth Products provider.

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:

Hardware: 5 years

Electronics: 3 years

## Limitations

## 4.1

Stealth Products, LLC does not warrant damage due to, but not limited to:

- Misuse, abuse, or misapplication of products.
- Modification or 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.

Exclusions also include components with damage caused by:

- Exposure to moisture

<b>1.0 Customer Satisfaction</b> .....	<b>i</b>
<b>2.0 Important Information</b> .....	<b>ii</b>
<b>3.0 Introduction</b> .....	<b>iii</b>
<b>4.0 Warranty</b> .....	<b>iv</b>
4.1 Limitations.....	iv
<b>5.0 Table of Contents</b> .....	<b>v</b>
<b>6.0 Warning Labels</b> .....	<b>vii</b>
6.1 Warning Labels.....	vii
6.2 Limited Liability.....	vii
6.3 Testing.....	vii
<b>7.0 Hardware Positioning</b> .....	<b>1</b>
7.1 Available Sizes.....	1
<b>8.0 Part Numbers</b> .....	<b>2</b>
<b>9.0 Design and Function</b> .....	<b>3</b>
9.1 Chin Prompt.....	3
9.2 Proper Use.....	3
9.3 Fitting.....	4
<b>10.0 i2i Head Positioning</b> .....	<b>5</b>
10.1 Indications for Use.....	5
10.2 Recommendation & Fitting.....	5
10.3 Installing the Seat Back Mount.....	6

<b>11.0 Mounting &amp; Adjusting</b> .....	<b>7</b>
11.1 Mounting Head Positioning to Hardware.....	7
11.2 Link Hardware.....	7
11.3 Flip Down Hardware.....	8
11.4 Offset Link Hardware.....	8
<b>12.0 First Time Use</b> .....	<b>9</b>
12.1 Dealer Assistance.....	9
12.2 User Testing.....	9
12.3 Conditions of Use.....	9
<b>13.0 Maintenance</b> .....	<b>10</b>
13.1 Cleaning.....	10

## 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 **imminent** situation which (if not avoided) will result in **severe injury, death, and property damage**.

#### **WARNING**

Identifies a **potential** situation which (if not avoided) will result in **severe injury, death, and property damage**.

#### **CAUTION**

Identifies a **potential** situation which (if not avoided) will result in **minor to moderate injury, and 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.

## 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.

Ensure that the client is properly aligned and that every alteration of the physical installation or adjustment of the positioning system is complete.



The standard i2i configuration uses TWB480 Flip Down Hardware, consisting of:

- Vertical round stem with anti-rotation notch and flip down mechanism
- Triangle clamp– needs to be positioned so it is even with the top of the seat back. When the i2i is flipped down, the hardware will clear the top of the back, preventing a potential safety hazard.
- Positioning links with a mounting ball

Featured items:

- i2i Head Positioning System– Head & Neck Positioning System
- Chin Prompt– Padded Chin Support
- TWB480 Hardware– Dual Link System with Quick Release System
- FDM380– Incorporated with the TWB480, allowing the entire system to flip back
- SBM400–Seat Back Mount

### ***NOTICE***

If a client is shunted, consult their physician if you feel there may be any compression or interference with the shunt before using the i2i.

## Available Sizes

## 7.1

The i2i is available in Pediatric, Small, Medium, Large, and Extra Large sizes.

See the chart below for size information:

Measurements	Pediatric	Small	Medium	Large	Extra Large
Max. Neck Circumference	9in.	11in.	14in.	16in.	18in.
Max. Neck Width	3.5in.	4in.	4.5in.	5in.	5.75in.
Profile Height:	2.25in.				
Standard		4in	4.75in.	5.25in.	6in.
Low		2.25in.	2.25in.	2.25in.	2.25in.
Arm Length	4.5in.				
Standard		6.5in.	7.5in.	8in.	9in.
Short		4.5in.	5.5in.	6in.	6.25in.

Pediatric	Small	Medium	Large	Extra Large
i2i280	i2i480	i2i580	i2i680	i2i780
i2i282	i2i482	i2i582	i2i382	i2i782
i2i380	i2i430	i2i530	i2i630	i2i781
i2i382	i2i432	i2i532	i2i632	i2i783
	i2i481	i2i581	i2i681	i2i790
	i2i483	i2i583	i2i683	i2i792
	i2i490	i2i590	i2i690	i2i740
	i2i492	i2i592	i2i692	i2i742
	i2i440	i2i540	i2i640	i2i791
	i2i442	i2i542	i2i642	i2i793
	i2i491	i2i591	i2i691	
	i2i493	i2i593	i2i693	

## Chin Prompt


### 9.1

The Chin Prompt is to be used only with direct supervision. It is intended to be used only as a therapeutic tool, or for additional assistance for feeding, communication, therapy, and limited periods of time to increase the users ability to attend to an activity.

#### CAUTION

The Chin Prompt is never to be left in place as a full-time positioning device.

The Chin Prompt should only be prescribed and fitted by qualified health care professionals.

 **WARNING** Do not use the Chin Prompt during transport.

## Proper Use

### 9.2

The placement of the Chin Prompt needs to be determined on an individual basis.

- If the client requires maximum assistance to hold their head up, you would place the prompt in direct contact with the chin while the head is in neutral position.
- To use the prompt therapeutically, lower the prompt to allow for active neck extension with a limited range. As the client gets stronger, gradually lower placement of the prompt or remove the prompt.



## Fitting

## 9.3

If the client requires less assistance support from the prompt, place the prompt just below the chin, using it as a boundary to limit the amount of neck flexion that the client might otherwise lapse into.

1. The curved part of the Chin Prompt faces the neck.
2. Place the Chin Prompt in between the anterior stabilizing arms at the desired height.



3. Wrap the right side strap around the arm and attach it to the Velcro on the Chin Prompt.
4. Wrap the left side strap around the arm and attach it to the Velcro on the Chin Prompt.

**CAUTION** Users of the Chin Prompt should be supervised at all times.

## Indications for Use

### 10.1

The potential users fall into 2 groups:

- Those too weak to hold their heads up for any extended amount of time.
- Those with a great deal of extensor tone but poor head control (This often results in their heads becoming caught under or to the side of their current i2i and requiring constant repositioning by the caregiver.)

Goals:

- The users in Group 1 need ample support in all directions, especially anteriorly.
- The users in Group 2 need a system that would offer enough lateral and posterior support that when they extend their necks they would be invited back into a midline position and not worry about becoming caught or tangled with their head positioning equipment, or have a surface behind the occiput that may provide the perfect spot to push off into neck hyperextension.

## Recommendation & Fitting

### 10.2

The head positioning is the finishing point of any seating system– NOT A STARTING POINT. If a client does not hold his/her head erect, it does not necessarily mean they have poor head control. It could be the result of an improperly fitted seating system.

Always begin with a thorough mat evaluation where all orthopedic and medical concerns are addressed. Only after you have determined that the seating system is a proper fit, and your client continues to require assistance, we would recommend the use of the i2i Head & Neck Positioning System.

The i2i is not intended to function like a custom molded seat for the head. It is designed to allow freedom of movement of the neck, but set some boundaries to limit neck extension, lateral flexion, and forward flexion.

Fitting:

We recommend that the framework of the i2i follow the contour of the neck, shoulders, and chest.

**NOTICE**

Fitting will vary slightly on an individual basis.

- There should be approximately 1/4" to 1/2" of clearance between the head positioning and your client's body.

**⚠ WARNING**

Do not position in a way that will apply any force on the body in any area.

- Adjust the head positioning to the client's specifications, needs, and comfort. The anterior stabilizer arms can be bent or molded to improve individual fit.

**NOTICE**

Remember, some clients will never hold their heads in midline due to contractures or other orthopedic concerns.

## Installing the Seat Back Mount

## 10.3

The Seat Back Mount includes:

- Two 1/4-20 X 3/4" Socket Head Screws
- Four 10-32 X 3/4" Socket Head Screws (for mounting to the seat back)

To attach to the seat back:

1. Drill the necessary holes in the seat back
2. Insert the 1/4-20 and/or the 10/32 Socket Head Screw through the designated holes in the seat back mount (A).
3. Screw through the seat back, then fasten the nuts on the opposite side.

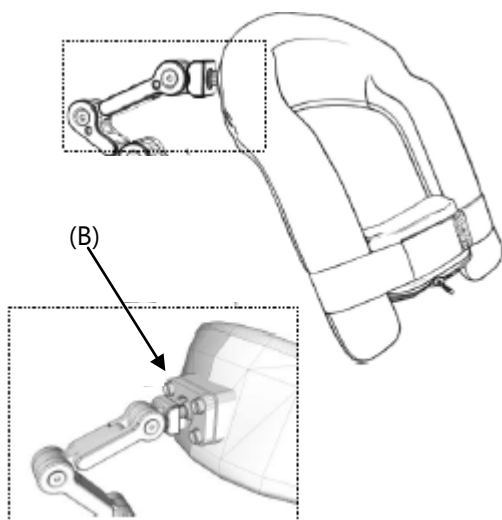


## Mounting Head Positioning to Hardware

### 11.1

To mount the i2i to the hardware:

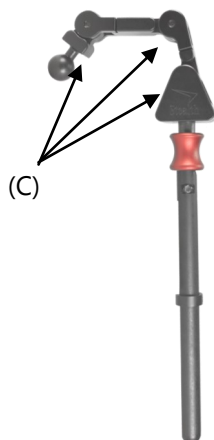
1. Place the 17mm ball into the designated socket in the rear of the i2i.
2. Place the split ring around the ball and insert the four socket head screws (B) through the ring and into the threaded holes in the rear of the i2i.
3. Tighten screws with a 5/32 hex key.



## Link Hardware

### 11.2

There are three points of angle adjustment on the link hardware. To adjust angles (C), lightly loosen the flat head screws, set desired angles, and retighten screws.

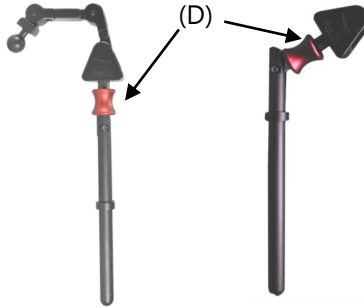


## Flip Down Hardware

### 11.3

To use the flip down function:

1. Pull down on the red sleeve (D). The hardware will flip down.
2. The hardware will automatically lock into place when returning to the upright position.



## Offset Link Hardware

### 11.4

The offset link hardware offers the same adjustability as the standard link hardware but uses 15mm square tubing and adds a posterior offset. To adjust angles:

1. Lightly loosen the flat head screws triangle.
2. Set the desired angle and retighten screws.

2" Offset Link



3" In Line Link



17mm Ball



SU- Split Ring



10-24 X12 Socket Head Screws



## Dealer Assistance

### 12.1

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

#### ***NOTICE***

After installation of the i2i, check that the hardware is in tact, that nothing is damaged, and that the wheelchair operating system is still fully functioning.

## User Testing

### 12.2

It is important that the customer is fully aware of the installation, how the i2i functions, and how it can be adjusted in order to gain as much mobility as possible. 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 i2i and Chin Prompt (if needed):

- Is the i2i in the proper position for the client?
- Can the user safely operate the chair?
- Is the placement of the i2i in an optimal position for the user?

If needed, adjust the i2i and Chin Prompt to the proper position.

Explain to the customer possible issues and how to address them.

## Conditions of Use

### 12.3

The i2i and Chin Prompt 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 conditions of use change significantly, please contact your dealer or a qualified service technician to avoid excessive wear and tear or unintended damage.

## Cleaning

### 13.1

To wash the i2i cover:

- Remove the cover from the i2i
- Machine wash in cold water on delicate cycle and drip dry.

To wash sheepskin covers:

- Remove the cover from the i2i
- Machine wash in cold water on delicate cycle (or dry clean), and dry.

**WARNING**

Do not use bleach.

**WARNING**

Do not iron.

**WARNING**

Do not exceed temperatures of 176°F (80° C).

**DANGER**

Failure to comply with these warnings could result in serious bodily harm.





Stealth Products, LLC. • [info@stealthproducts.com](mailto:info@stealthproducts.com) • [www.stealthproducts.com](http://www.stealthproducts.com)  
+1(800) 965-9229 | +1(512) 715-9995 | 104 John Kelly Drive, Burnet TX 78611