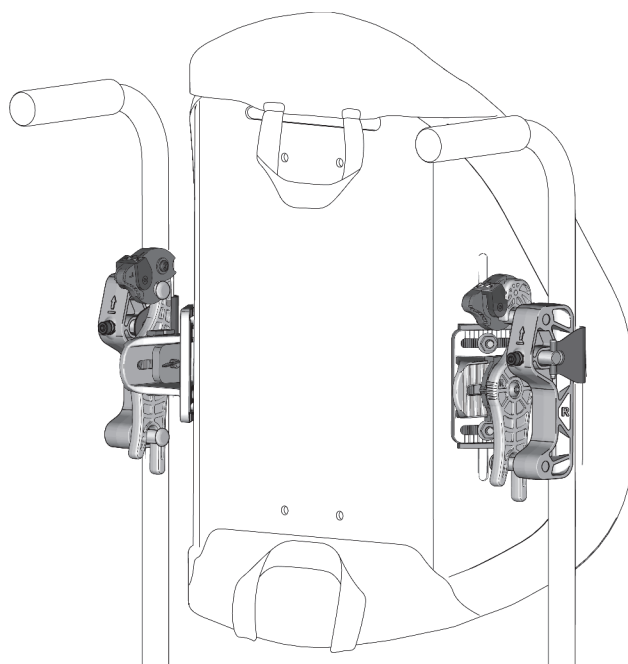


ROHO®

# AGILITY® Back Support Quick Release Hardware

## Operation Manual



**permobil**

s h a p e   f i t t i n g   t e c h n o l o g y®



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**Warning**

Indicates that not following the specified procedure could lead to potentially hazardous conditions resulting in serious injury.

**Caution**

Indicates that not following the specified procedure could lead to potentially hazardous conditions resulting in minor to moderate injury or damage to the equipment or other property.

**Incident Reporting**

In the event of a serious incident or injury, contact Customer Support and the competent authority of the State in which the user and/or patient is established.

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**Symbols Glossary**

Batch code



Medical Device



Quantity



Authorized representative in the European Community



Model number



Manufacturer



Date of manufacture



Authorized representative in Switzerland



Consult instructions for use



Unique Device Identifier

**Please Note**

In addition to these instructions, refer to the instructions provided with the ROHO AGILITY Back Support.

Supplier: This manual must be given to the user of this product.

Operator (Individual or Caregiver): Before using this product, read the instructions and save for future reference.

Products may be covered by one or more U.S. and foreign patents and trademarks, including ROHO®, AGILITY®, and shape fitting technology®. Zytel® is a registered trademark of DuPont.

Product information is changed as needed; current product information is available at permobil.com. Contact Customer Support for previous versions of product information.

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## Intended Use

ROHO AGILITY Back Support Quick Release Hardware (AGILITY Quick Release Hardware) is intended to attach compatible ROHO AGILITY Back Supports to the wheelchair back canes. Compatible ROHO AGILITY Back Supports include:

- ROHO AGILITY Max Contour Back Support (AGILITY Max)
- ROHO AGILITY Mid Contour Back Support (AGILITY Mid) *(Not available in all markets.)*
- ROHO AGILITY Minimum Contour Back Support (AGILITY Minimum) *(Not available in all markets.)*

*A clinician who is experienced in seating and positioning should determine whether the product is appropriate for the individual's particular seating needs. The product's intended use statement alone should not be relied upon to make that determination.*

*The medical products featured in this document are intended to be only one part of an overall care regimen that includes all seating and mobility equipment and therapeutic interventions. A clinician who is experienced in seating and positioning should identify this care regimen after evaluating the individual's physical needs and overall medical condition.*

*A clinician should also evaluate for visual, reading, and cognitive impairment to determine the need for caregiver assistance or the need for other assistive technology, such as large-print instructions, to ensure proper product use.*

## Important Safety Information



### Warnings:

- DO NOT use the product without first reading and understanding all of the provided instructions. If unable to perform any tasks in this manual, seek assistance by contacting the clinician, equipment provider, distributor, or Customer Support.
- Follow all instructions and safety information provided with the product and provided by the manufacturer of the wheelchair or other accessories.
- Skin/soft tissue breakdown can occur due to a number of factors, which vary by individual. Check skin frequently, at least once a day. Redness, bruising, or darker areas (when compared to normal skin) may indicate superficial or deep tissue injury and needs to be addressed. If there is any discoloration to skin/soft tissue, STOP USE immediately. If the discoloration does not disappear within 30 minutes after disuse, immediately consult a healthcare professional.
- The product should be installed by an equipment provider or clinician.
- The product must be sized correctly to the wheelchair.
- DO NOT modify the product or use non-compatible products, materials, accessories or components, which may result in a non-secure installation of AGILITY, bodily injury, and product damage or failure and will void the warranty.
- As with any addition to a wheelchair, the product may affect the wheelchair's stability. Before using the product, consult with a clinician or the equipment provider to determine whether the wheelchair should be modified.
- DO NOT lean over the top of an AGILITY Back Support. Doing so may cause a change in the center of gravity, and the wheelchair could tip over.
- Use caution when installing, adjusting, or removing hardware to avoid pinching or trapping fingers in openings.
- Check daily to confirm the tightness of screws, nuts, clamps, and brackets. Retighten loose screws, following the instructions in this manual. Check daily for wear and breakage. DO NOT use the product if any part cannot be tightened or is broken. Periodically, the product should be thoroughly inspected by the equipment provider.
- DO NOT lift or push a wheelchair using any part of an AGILITY because it may become detached from the wheelchair.
- Before sitting in the wheelchair and while sitting in the wheelchair, check to make sure that both of the safety locks are in the LOCKED (🔒) position.
- Metal components may become hot if exposed to high temperatures or cold if exposed to low temperatures. The product's surface will acclimate to the surrounding temperature. Take appropriate precautions, especially when the product will contact unprotected skin.
- DO NOT expose the product to high heat, open flames or hot ashes. Testing or certification claims, including for flammability, may no longer apply to this device when it is combined with other products or materials. Check testing and certification claims for all products used in combination with this device.



### Cautions:

- Protect the AGILITY from blunt force shocks that may cause damage and/or breakage.
- The components of the AGILITY are not intended to be used separately from an AGILITY or in conjunction with other wheelchair back supports.
- Removal of the AGILITY before folding the wheelchair may be necessary.

## Important Safety Information - General

### Motor Vehicle Transportation Warnings:

- Failure to pay attention to these warnings could result in severe injury to the individual in the wheelchair or to others.
- Whenever possible, transfer out of the wheelchair installed with an AGILITY and into a manufacturer-installed vehicle seat, and use the vehicle's crash-tested occupant restraint system.
- The AGILITY must be correctly and securely installed, used, and maintained according to the instructions and warnings provided by the wheelchair and hardware manufacturers.
- Install an AGILITY on a wheelchair so the individual is seated in an upright position and the wheelchair is facing forward during transportation in a motor vehicle. The AGILITY has only been crash tested on a wheelchair in the forward-facing position per the test information provided in this operation manual.
- The AGILITY must only be used with wheelchair frames that are equipped with securement points specified in ANSI/RESNA WC-4:2017, Section 19 (WC19) or ISO 7176-19, and that have been successfully crash tested using the methods described in Annex A of WC19 or ISO 7176-19 (respectively).
- The wheelchair with an AGILITY must be used with an effective wheelchair securement system and a properly positioned, crash-tested pelvic and shoulder-belt restraint, or Wheelchair Tiedown and Occupant Restraint System (WTORS), following the manufacturer's instructions.
- The top of an AGILITY should be positioned as close as possible to the top of the individual's shoulder to provide good support in the event of a crash. The distance between the top of the individual's shoulder and the top of the wheelchair back should not exceed 6½ in. (16.5 cm).
- ALWAYS safely store AGILITY during transport to avoid damage.
- If the product has been involved in an accident during transport, see the "Maintenance" section in this manual.
- For more information about safely transporting wheelchair users, refer to: <http://wc-transportation-safety.umtri.umich.edu/ridesafe-brochure>.

AGILITY with Quick Release Hardware has been dynamically tested by a third-party testing facility for use in a motor vehicle and meets all applicable criteria for wheelchair seating systems proposed in Section 5.1 of ANSI/RESNA WC-4:2012 Section 20 "Wheelchair Seating Systems for Use in Motor Vehicles".

Test results apply to seating systems intended for use by adults and children with a total body mass greater than 23 kg (51 lb, or approximately 6 years of age) who are transported facing forward in their wheelchairs in all types of motor vehicles.

To determine whether motor vehicle third-party testing has been performed with a specific AGILITY-hardware and other accessory combination, refer to the operation manual provided with AGILITY, attachment hardware, and other accessory, or contact the equipment manufacturer.

## Parts Detail

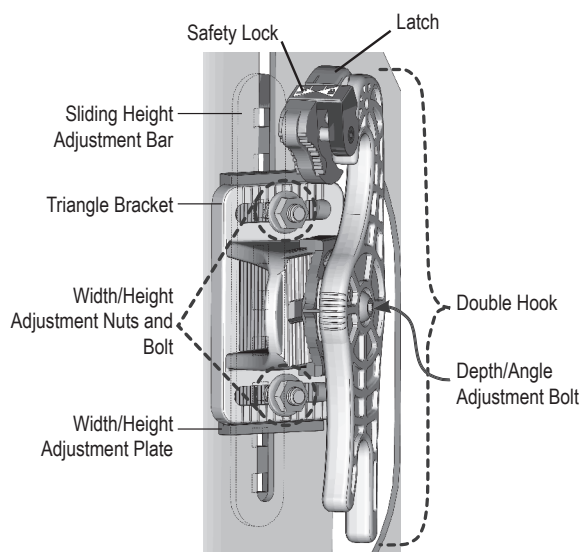
**This manual\* references the following package contents:** Back Cane Hardware, Back Shell Hardware, Dual Wrench, operation manual

To order replacement parts, contact the product provider or Customer Support.

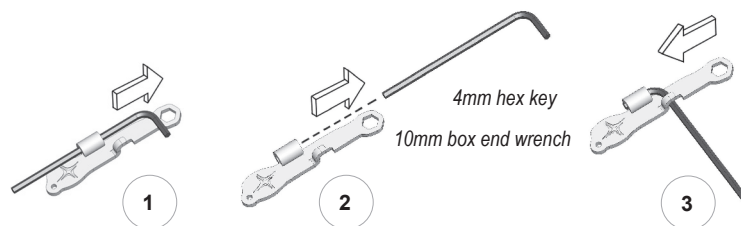
\* For additional product information, refer to the instructions provided with the ROHO AGILITY Back Support. 

Note: A tape measure or a ruler is recommended but is not included in the package contents.

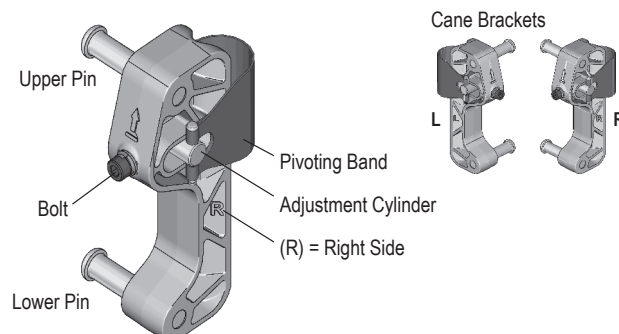
### Back Shell Hardware



### Dual Wrench - To separate and assemble for use as an Allen Wrench:



### Cane Hardware



## Product Specifications

**Materials:** Back Shell Hardware and Cane Bracket, Zytel; Sliding Height Adjustment Bar, aluminum; Pivoting Band and Adjustment Cylinder, steel.

**AGILITY Quick Release Hardware Weight:** 1.75 lb. (0.8 kg)

**Accessories Compatible with AGILITY Quick Release Hardware:**  
ROHO Privacy Shield (*non-medical accessory*)

### Back Shell Hardware:

- Width/Height Adjustment Bolts: M6 x 1.0 x 25mm Carriage Bolt
- Depth/Angle Adjustment Bolt: M6 x 1.0 x 30mm Socket Head Cap Screw
- Cane Hardware Bolt: M5 x 1.0 x 35mm Socket Head Cap Screw

**Expected product lifetime:** 5 years

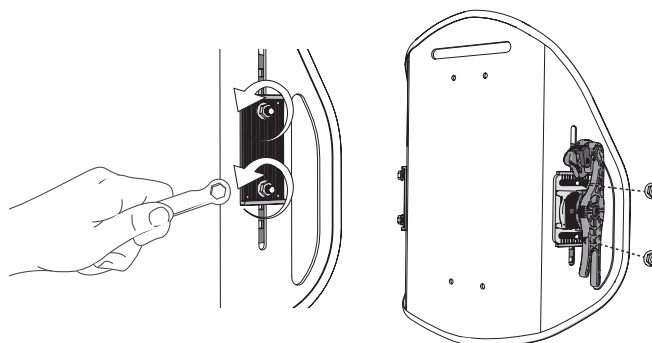
## Back Shell Hardware Installation

*Note: Follow these instructions if the back shell hardware is not yet installed on the AGILITY.*

1. Use the box end wrench to loosen and remove the width/height adjustment nuts. Repeat for both sides.

Place the left (L) and right (R) back shell hardware onto the left (L) and right (R) width/height adjustment plates.

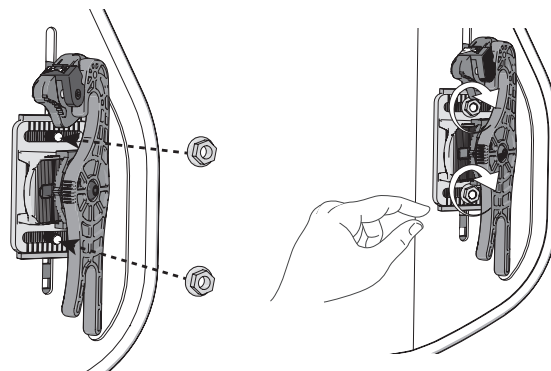
*Right (R) back shell hardware is shown.*



2. Replace the width/height adjustment nuts.

Slightly finger-tighten the width/height adjustment nuts. The nuts should still be loose enough to slide the triangle brackets forward and backward.

Repeat for both sides.



## Wheelchair Compatibility

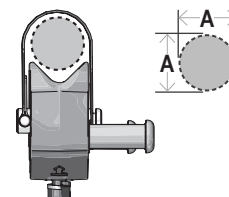


### Warnings:

- AGILITY hardware is compatible with many wheelchairs that recline, tilt, or are angularly adjustable up to and including a back angle of 60 degrees. Beyond 60 degrees, AGILITY hardware may be damaged, the AGILITY may disconnect from the wheelchair, and the user may be vulnerable to falling and serious injury. Consult with a clinician or equipment provider to determine if AGILITY hardware is compatible with the wheelchair.
- Rigidizer bars may pose a mounting challenge. See "Troubleshooting". Make sure the rigidizer bar does not interfere with any of the cane hardware components.

### IMPORTANT!

- AGILITY cane brackets should be installed on the back side of the back canes. If needed, they can be installed on the front side of the back canes, but this will result in a loss of up to 1 in. (2.5 cm) of additional seat depth.
- AGILITY must be sized correctly to the wheelchair and may not fit every wheelchair. Consult with the provider or clinician providing the equipment to determine if the wheelchair and canes are compatible with an AGILITY.
- AGILITY Quick Release Hardware is designed to be used with most wheelchairs that have circular back canes with diameters (A) that are no smaller than ¾ in. (2.0 cm) and no larger than 1 in. (2.5 cm). All measurements are approximate.



## Cane Hardware Installation

**Warning:** DO NOT install the cane hardware while the individual is seated in the wheelchair.

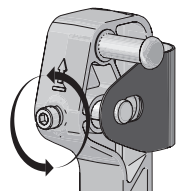
### IMPORTANT!

- Follow the wheelchair manufacturer's directions when removing an existing wheelchair back.
- Make sure the wheelchair canes are clean before installing the cane brackets.
- Apply the wheelchair brakes before installing or removing the cane brackets.

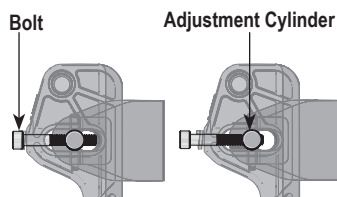
*Note: Left (L) and right (R) cane hardware is provided. For demonstration purposes, only the left or the right side may be shown.*

1. For both sides: Loosen the bolt.

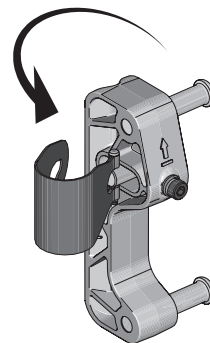
*Note: The end of the bolt should be flush with the adjustment cylinder.*



**IMPORTANT!** The bolt should NOT disengage from the adjustment cylinder.

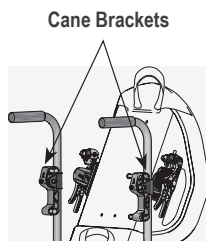


2. Push against the bolt with thumb and pry the pivoting band away from the adjustment cylinder. Rotate the pivoting band.

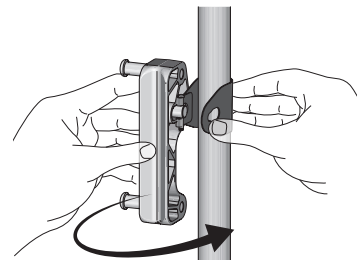
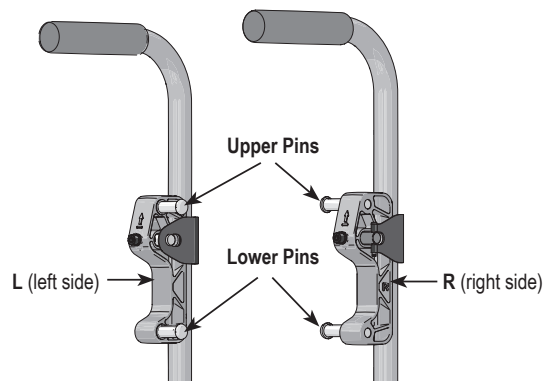


When attaching the cane brackets:

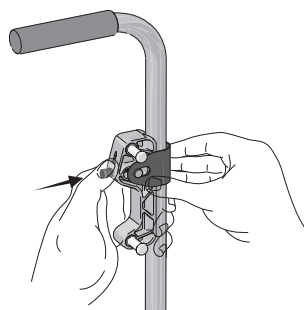
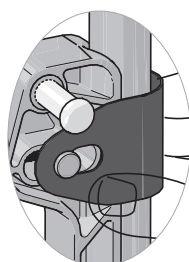
- » Place them on the backs of the wheelchair canes.
- » Place them at the desired height.
- » Make sure the pins face each other.



3. Hold the pivoting band against the cane. Rotate the cane bracket until it presses against the cane.

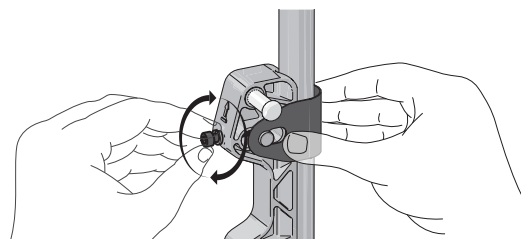


4. With thumb against the bolt, attach the pivoting band so the narrow part of the opening is on the groove in the adjustment cylinder.



5. Hold the pivoting band against the cane. Pinch or squeeze the pivoting band while finger-tightening the bolt, until the cane bracket is snug against the cane.

Repeat cane hardware installation on the other side.



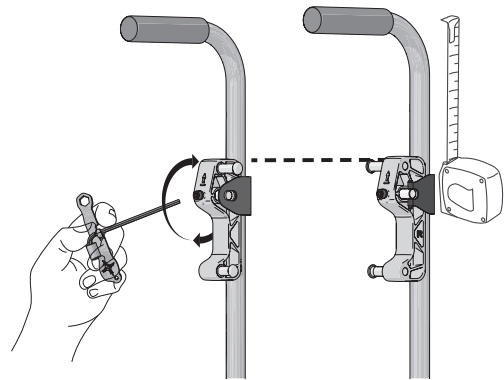
## Cane Hardware Installation, continued

6. Tighten the bolts with the Allen wrench until snug + one- quarter turn.

*Note: If a torque wrench is available, tighten the bolts to no more than 40 inch-pounds (4.5 Newton-meters).*

### ! IMPORTANT!

- » Compare the cane brackets to make sure the upper pins are aligned and the lower pins are aligned.
- » Make sure each cane bracket is installed on the correct side.
- » Use a tape measure to make sure the cane brackets are at the same height.



## AGILITY Installation

**STOP:** If the back shell hardware is not yet installed on the AGILITY back shell, see "Back Shell Hardware Installation".

### ! Warnings:

- DO NOT install an AGILITY while the individual is seated in the wheelchair.
- After installing or adjusting an AGILITY, and before the individual transfers into the wheelchair, take the following safety precautions:
  - » Make sure that both safety locks are in the LOCKED (🔒) position. To test the locks, use the handle to pull up on the AGILITY.
  - IMPORTANT!** DO NOT use the handle to pull the wheelchair while the individual is seated in the wheelchair. The handle is intended only to assist with installing and removing the AGILITY.
  - » Make sure both latches are fully closed. If the latches will not close, or if the hooks will not rest completely on the pins, see "Troubleshooting".
  - » Make sure that all hardware is securely tightened. Refer to the recommended torque specifications.
- While the individual is seated in the wheelchair, make sure that both of the safety locks remain in the LOCKED (🔒) position.

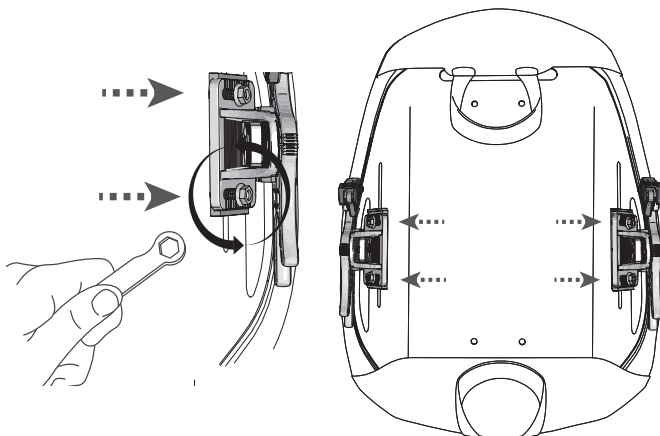
### Notes:

- The safety locks must be in the UNLOCKED (🔓) position to install an AGILITY.
- The cover should be installed on the back shell before installing an AGILITY. Refer to the instructions provided with the ROHO AGILITY Back Support.

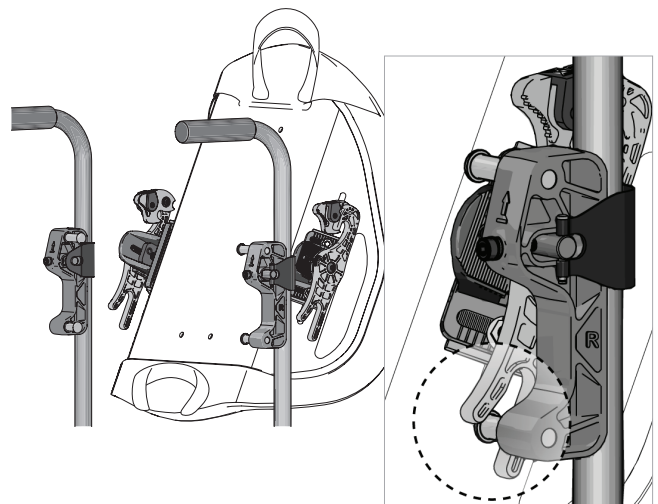
### Adjust the Width:

1. **! Caution:** Loosen, but DO NOT remove, the width/height adjustment nuts:

The width/height adjustment nuts should be just loose enough for the triangle brackets to slide backward and forward.



2. Tilt the top of the back shell toward the front of the wheelchair and place the lower hooks onto the lower pins.



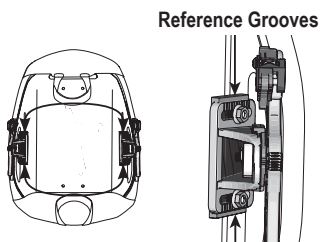


## AGILITY Installation, continued

### Adjust the Width, continued:

3. Check the width:

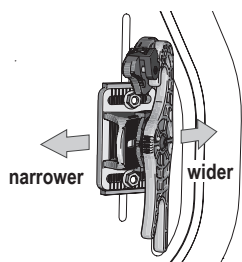
- » Make sure that the hooks are resting on the pins.
- » Use the reference grooves to make sure the left and right triangle brackets are in the same position on both sides.



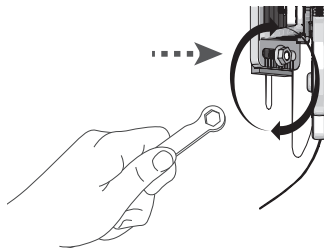
4. If needed, slide the triangle brackets to adjust the width:

- » forward for a wider width
- » backward for a narrower width

**Warning:** DO NOT adjust the width of the AGILITY while the individual is seated in the wheelchair.

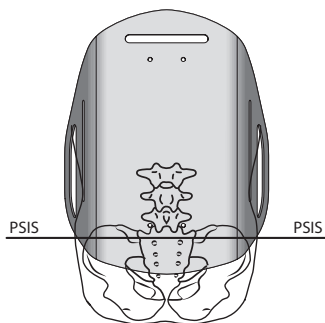


5. Remove the back shell from the wheelchair and tighten the width/ height adjustment nuts.



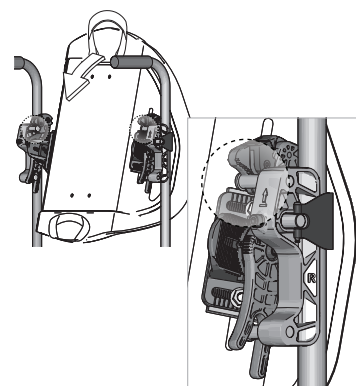
**Warning:** If an AGILITY is not positioned to make contact with the Posterior Superior Iliac Spine (PSIS), pelvic support and trunk control may be reduced.

Make sure that the AGILITY is positioned so that the bottom portion makes contact with the PSIS. See "Height Adjustment".



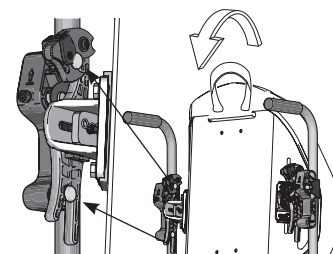
### Attach the AGILITY:

6. Place the lower hooks on the lower pins again. Then, tilt and lift the top of the back shell toward the back of the wheelchair until the latches rest above the upper pins.

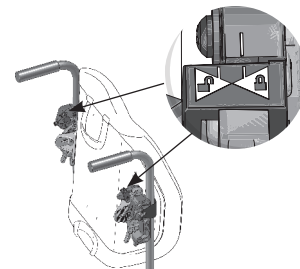


7. To rest the hooks on the pins and engage the latches:

Hold the back shell up slightly, and then bring it down until the upper and lower hooks rest completely on the upper and lower pins. The latches should open and then close.



8. Lock the latches by pushing the left and right safety locks into the LOCKED (🔒) position.

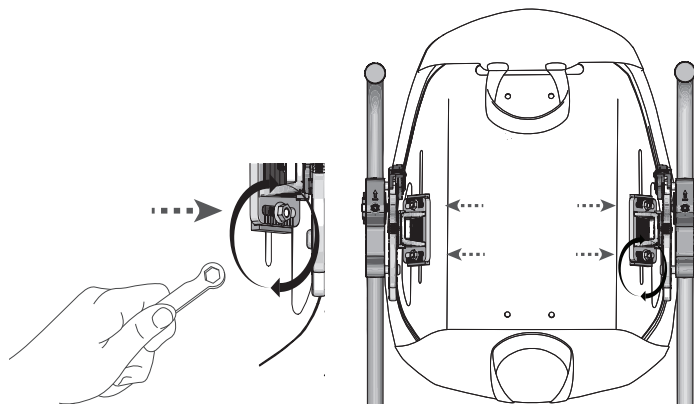


### Complete the Installation:

9. If there is a need to adjust the height, see "Height Adjustment".


10. Tighten the width/height adjustment nuts with the box end wrench until snug + one-quarter turn.

*Note: If a torque wrench is available, tighten the nuts to  $42 \pm 2$  inch-pounds ( $4.75 \pm 0.25$  Newton-meters).*



## Height Adjustment


### Warnings:

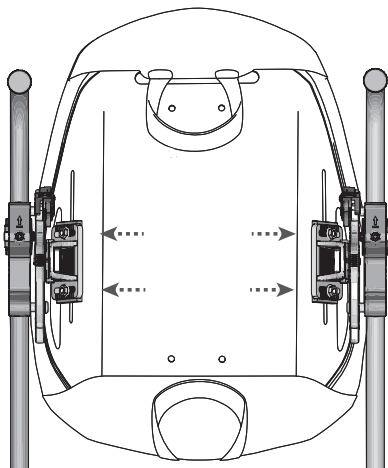
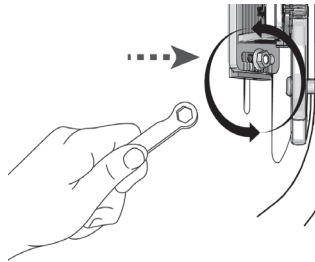
- If performed correctly and with caution, height adjustments may be made while the individual is in the wheelchair. If height adjustments are too difficult or unsafe to make while the individual is in the wheelchair, have the individual transfer safely out of the wheelchair.
- If choosing to adjust the height of an AGILITY while the individual is seated in the wheelchair, first take the following safety precautions:
  - » Make sure the wheelchair wheels are locked.
  - » Make sure that both safety locks are in the LOCKED  position. To test the locks, use the handle to pull up on the AGILITY. IMPORTANT! DO NOT use the handle to pull the wheelchair while the individual is seated in the wheelchair. The handle is intended only to assist with installing and removing the AGILITY.
  - » Make sure both latches are fully closed. If the latches will not close, or if the hooks will not rest completely on the pins, see "Troubleshooting".
  - » Make sure that all hardware is securely tightened. Refer to the recommended torque specifications.

*Note: Before adjusting the height of an AGILITY, install the AGILITY on the wheelchair. See "AGILITY Installation".*

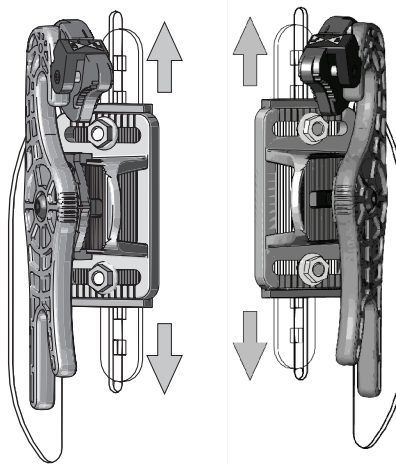
1. Use the box end wrench to loosen the width/height adjustment nuts:


From a tight position, loosen the nuts just until the back shell slides up and down -- less than the equivalent of two (2) full rotations.

 **Warning:** DO NOT remove the width/height adjustment nuts.

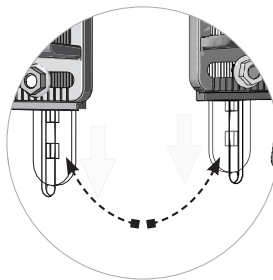



2. Slide the back shell up or down in the vertical slots to the desired height.



 **IMPORTANT!** Make sure that the back shell hardware is the same height on both sides:  
To make sure that the left (L) and right (R) back shell hardware are at the same height, count the squares that are seen when looking through the left and right vertical slots in the back shell.

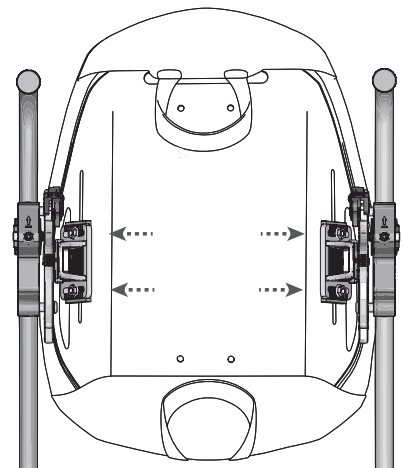
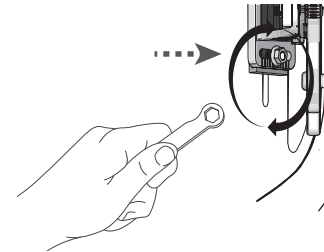
*(The squares are part of the sliding height adjustment bar; see "Parts Detail".)*



 **Warning:** Once adjustment is complete, make sure all hardware is securely tightened. Refer to torque specifications.


3. While holding the back shell in position, use the box end wrench to tighten the width/height nuts on the width/height adjustments bolts until snug + one-quarter turn.

*Note: If a torque wrench is available, tighten the bolts to  $42 \pm 2$  inch-pounds ( $4.75 \pm 0.25$  Newton-meters).*



## Seat Depth and Angle Adjustment

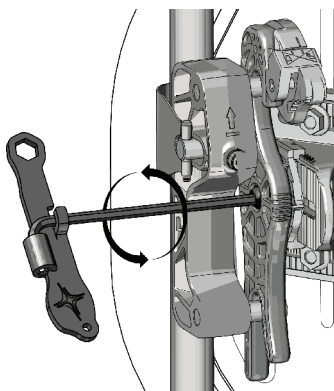
### Warnings:

- If performed correctly and with caution, seat depth and angle adjustments may be made while the individual is in the wheelchair. If seat depth and angle adjustments are too difficult or unsafe to make while the individual is in the wheelchair, have the individual transfer safely out of the wheelchair.
- If choosing to adjust the seat depth and angle of the AGILITY while the individual is seated in the wheelchair, first take the following safety precautions:
  - » Make sure the wheelchair wheels are locked.
  - » Make sure that both safety locks are in the LOCKED  position. To test the locks, use the handle to pull up on the AGILITY. IMPORTANT! DO NOT use the handle to pull the wheelchair while the individual is seated in the wheelchair. The handle is intended only to assist with installing and removing the AGILITY.
  - » Make sure both latches are fully closed. If the latches will not close, or if the hooks will not rest completely on the pins, see "Troubleshooting".
  - » Make sure that all hardware is securely tightened. Refer to the recommended torque specifications.

*Note: Before adjusting the seat depth and angle of an AGILITY, install the AGILITY on the wheelchair. See "AGILITY Installation".*

### To Adjust the Seat Depth

1. Make sure the width/height adjustment nuts are completely tightened. See "AGILITY Installation".
2. Use the Allen wrench to loosen the depth/angle adjustment bolts, approximately three (3) full rotations.

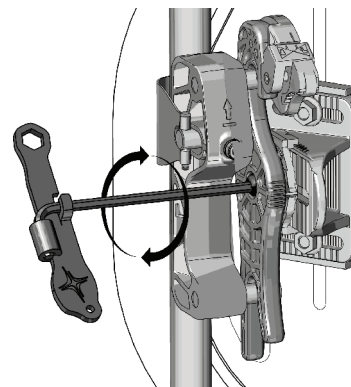


5. If the AGILITY is not yet adjusted to the desired angle, continue to the next section, "To Adjust the Angle".

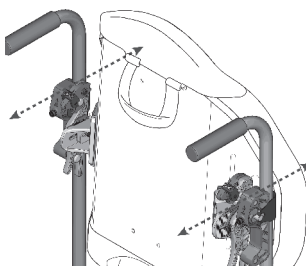
6. If the AGILITY is already adjusted to the desired angle:


While holding the back shell in position, use the Allen wrench to tighten the right and left depth/angle adjustment bolts, turning until snug + one-quarter turn.

*Note: If a torque wrench is available, tighten the bolts to  $60 \pm 4$  inch-pounds ( $7 \pm 0.5$  Newton meters).*

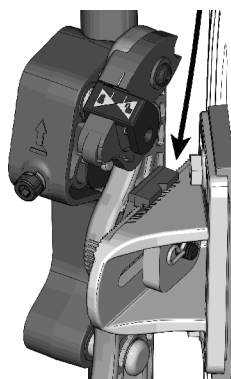


3. Slide the back shell forward or backward to the desired depth.  
*Note: If the triangle bracket will not slide, see "Troubleshooting".*



4.  **IMPORTANT!** To make sure the depth positions on both sides are equal, compare the markers on the tops of the triangle brackets.

markers on triangle brackets



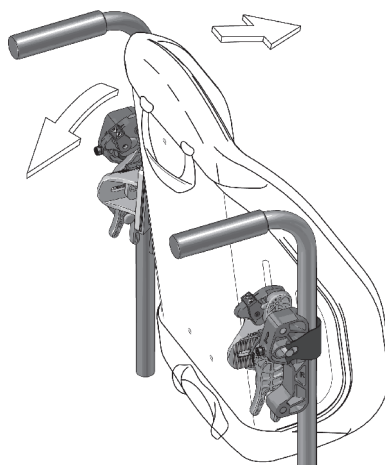
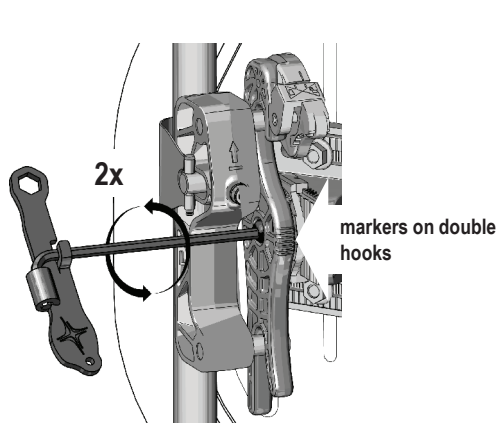
## Seat Depth and Angle Adjustment, continued

### To Adjust the Angle

1. Make sure the width/height adjustment nuts are completely tightened. See "AGILITY Installation".
2. If not yet loosened, use the Allen wrench to loosen the depth/angle adjustment bolts, approximately two (2) full rotations.
3. Pivot the back shell.

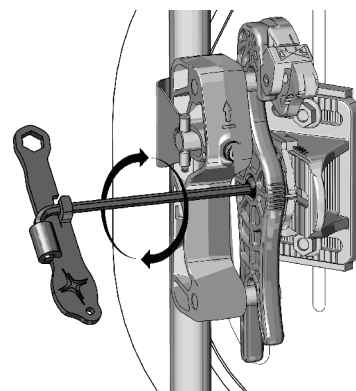
**! IMPORTANT!** To make sure both sides are rotated to the same angle, compare the markers on the front of both double hooks.

*Note: 5 degree increments per mark (15 degrees of anterior and posterior tilt).*



4. While holding the back shell in position, use the Allen wrench to tighten the right and left depth/angle adjustment bolts, turning until snug + one-quarter turn.

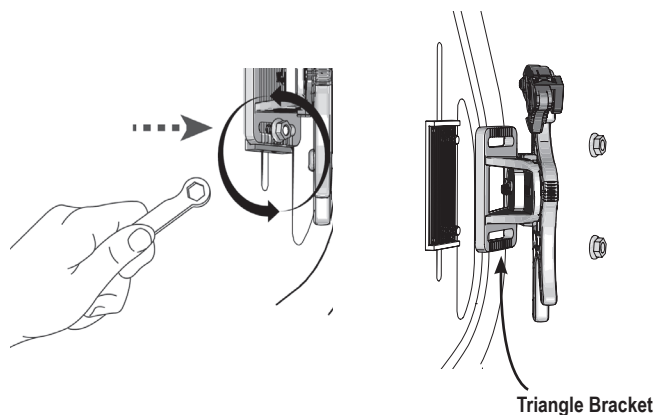
*Note: If a torque wrench is available, tighten the bolts to  $60 \pm 4$  inch-pounds ( $7 \pm 0.5$  Newton meters).*



**! IMPORTANT!** After installation and adjustment is complete, tighten hardware securely before transferring into the wheelchair. Refer to the appropriate sections in this manual for recommended torque specifications. If the individual is seated in the wheelchair, and depth and angle re-adjustments are needed, review "Warnings" at the beginning of this section and re-adjust as necessary. Retighten all hardware securely.

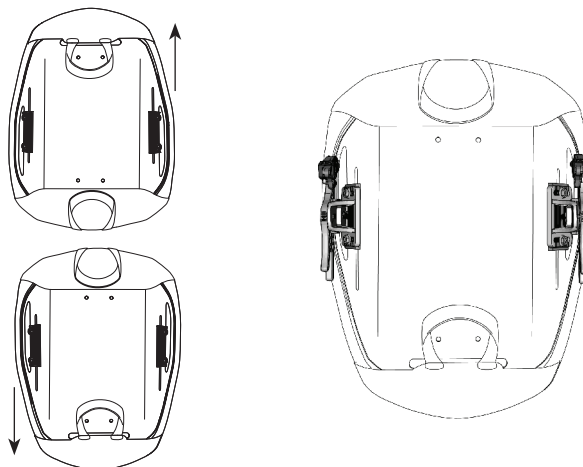
## Flip the Back Shell

1. Remove the AGILITY from the wheelchair. See "AGILITY Removal".
2. Remove the back shell hardware on both sides:
  - Use the box end wrench to remove the width/height adjustment nuts.
  - Remove the triangle brackets from the back shell.



3. Rotate the back shell.
4. Install and adjust the AGILITY. See all adjustment and installation instructions provided with the product.

*Note: When installing the flipped back shell, make sure the AGILITY Cover is also in the flipped position.*

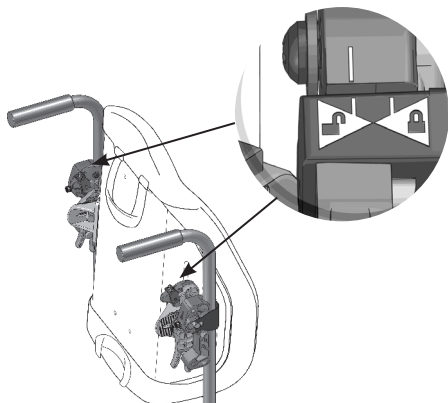


## AGILITY Removal and Reattachment

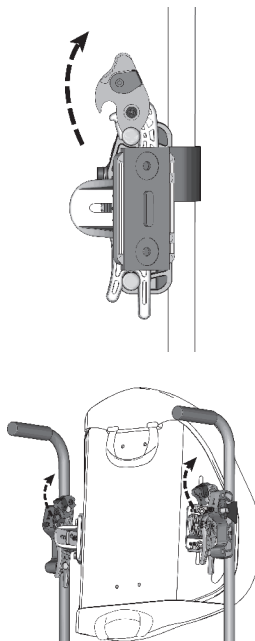
*Note: Safety locks must be in the UNLOCKED (🔓) position to remove an AGILITY.*

**Warning:** DO NOT remove the AGILITY while the individual is seated in the wheelchair.

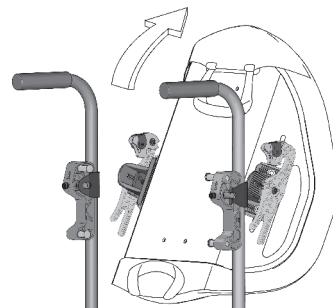
1. UNLOCK (🔓) the safety locks.



2. Pull up both of the latches to open them.



3. Use the handle to lift up the AGILITY and remove it from the wheelchair.



### AGILITY Reattachment:

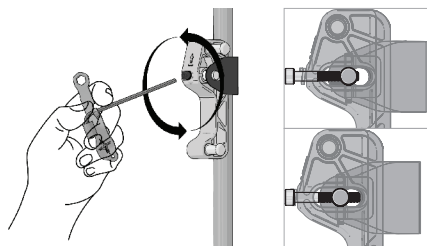
To reattach the AGILITY on the wheelchair, follow the "Attach the AGILITY" instructions in the "AGILITY Installation" section of this manual.

## Cane Hardware Removal

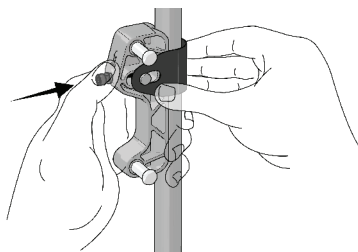
**Warning:** DO NOT remove the cane hardware while the individual is seated in the wheelchair.

*Note: Remove the AGILITY from the wheelchair before removing the cane hardware. See "AGILITY Removal".*

1. Loosen the bolt. The bolt should **NOT** disengage from the adjustment cylinder.



2. With thumb against the bolt, pry the pivoting band away from the adjustment cylinder.



3. Rotate the cane bracket away from the cane.

