ROHO® AGILITY® Back System Quick Release Hardware
Operation Manual

⚠️ In addition to these instructions, refer to the ROHO AGILITY Back System Operation Manual.

Supplier: This manual must be given to the user of this product.
Operator (Individual or Caregiver): Before using this product, read instructions and save for future reference.
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Intended Use

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

- ROHO® AGILITY® Minimum Contour Back System (AGILITY Minimum Contour)
- ROHO® AGILITY® Mid Contour Back System (AGILITY Mid Contour)
- ROHO® AGILITY® Max Contour Back System (AGILITY Max Contour)

ROHO, Inc. recommends that a clinician, such as a doctor or therapist experienced in seating and positioning, be consulted to determine if an AGILITY is appropriate for the individual's particular seating needs.

ROHO medical products are intended to be part of an overall care regimen. ROHO, Inc. recommends that a clinician make product recommendations based upon an evaluation of the individual's medical and therapeutic needs and overall condition.

Important Safety Information

⚠️ Warnings:

- DO NOT use the product without first reading and understanding all of the provided instructions. If you are unable to perform any tasks in this manual, seek assistance by contacting your clinician, equipment provider, distributor, or ROHO, Inc.
- Follow all instructions and safety information provided with the product and provided by the manufacturer of your 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 your equipment provider or clinician.
- The product must be sized correctly to the individual and the wheelchair.
- As with any addition to a wheelchair, the product may affect your wheelchair's stability. Before using the product, consult with a clinician or your equipment provider to determine whether your wheelchair should be modified.
- DO NOT lean over the top of an AGILITY Back System. 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 your 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.
- 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.
- Altering the product or using any hardware or components other than those supplied by ROHO and compatible with your product model may result in product damage or failure and may void the warranty.
Important Safety Information, Continued

⚠️ Cautions:
- Protect your 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 systems.
- Metal components may become hot if exposed to high temperatures or cold if exposed to low temperatures.
- You may need to remove your AGILITY before folding your wheelchair.

⚠️ Warnings - Motor Vehicle Transportation
- Whenever possible, transfer out of your wheelchair installed with an AGILITY and into a manufacturer-installed vehicle seat, and use the vehicle’s crash-tested occupant restraint system.
- ALWAYS store AGILITY safely during transport to avoid damage.
- If the product has been involved in an accident during transport, see the “Maintenance” section in this manual.
- Failure to pay attention to these warnings could result in severe injury to the individual in the wheelchair or to others.
- The AGILITY must be correctly and securely installed on the wheelchair. Follow all provided instructions and warnings.
- 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 wheelchairs that comply with the performance requirements of ISO 7176-19 and that are installed, used and maintained according to the wheelchair manufacturer’s instructions.
- 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).

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”.
Parts Detail

This manual* references the following package contents:
Back Cane Hardware, Back Shell Hardware, Dual Wrench, Operation Manual, Registration Card

*For additional product information, refer to the ROHO AGILITY Back System Operation Manual.

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

![Diagram of Back Shell Hardware and Cane Hardware]

Cane Hardware

Upper Pin
Pivoting Band
Bolt
(R) = Right Side
Adjustment Cylinder
Depth/Height Adjustment Bolt
(M6 x 1.0 x 30mm Socket Head Cap Screw)
Lower Pin

Dual Wrench

To separate and assemble for use as an Allen Wrench:

1. 4 mm Hex Key
2. 10 mm Box End

To order replacement parts, contact your product provider or ROHO, Inc.

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)
Back Shell Hardware Installation

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

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

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

3) Replace the width/height adjustment nuts.

4) 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 your wheelchair, and you may be vulnerable to falling and serious injury. Consult with a clinician or equipment provider to determine if AGILITY hardware is compatible with your 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.

Notes:
- 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 your equipment to determine if your 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.

Notes:
- 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.
- 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 your 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 your 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 you finger-tighten 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 your AGILITY back shell, see **Back Shell Hardware Installation**.

**Warnings:**
- **DO NOT** install an AGILITY while the individual is seated in the wheelchair.
- After you install or adjust 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 **ROHO AGILITY Back System Operation Manual** provided with your AGILITY.

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.
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.

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 pins on the hooks 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 you 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 ± 2 inch-pounds (4.75 ± 0.25 Newton-meters).

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.
Height Adjustment

⚠️ Warnings
- If performed correctly and with caution, height adjustments may be made while the individual is in the wheelchair. If you find height adjustments too difficult or unsafe to make while the individual is in the wheelchair, have the individual transfer safely out of the wheelchair.
- If you choose to adjust the height of an AGILITY while the individual is seated in the wheelchair, you must 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 you adjust 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).
   ⚠️ DO NOT remove the width/height adjustment nuts.

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

3) While you hold 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 ± 2 inch-pounds (4.75 ± 0.25 Newton-meters).

⚠️ 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 you can see when you look 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.
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 you find seat depth and angle adjustments too difficult or unsafe to make while the individual is in the wheelchair, have the individual transfer safely out of the wheelchair.
- If you choose to adjust the seat depth and angle of the AGILITY while the individual is seated in the wheelchair, you must 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 an 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 you adjust the seat depth and the 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.
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.
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 you hold 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 ± 4 inch-pounds (7 ± 0.5 Newton-meters).
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 you hold 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 ± 4 inch-pounds (7 ± 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 Warning 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.
AGILITY Removal and Reattachment

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

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

AGILITY Removal:

1) UNLOCK (unj) 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 you remove the cane hardware. See AGILITY REMOVAL.

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

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

3) Rotate the cane bracket away from the cane.
Troubleshooting

For additional assistance, contact your equipment provider, distributor, or ROHO, Inc.

Not able to correctly attach components during **Cane Hardware Installation**
- Make sure that both the left (L) and right (R) cane brackets are in line with the frame of the wheelchair and are not twisted.
- Make sure that the cane brackets are the same height on both sides. Use a tape measure or ruler, if necessary.
- The normal installation location of the cane brackets is on the back side of the canes. If a rigidizer bar interferes with the cane brackets when they are installed in the normal location, the cane brackets may be installed on the front side of the canes. In either orientation, the left (L) and right (R) directional markers on the cane brackets should be correctly located from the viewpoint of the installer.

Not able to correctly attach or secure components during **AGILITY Installation**
- Make sure that both the left (L) and right (R) cane brackets are in line with the frame of wheelchair and are not twisted.
- Make sure that the width is set appropriately for the wheelchair. The distance between wheelchair canes may vary. If the back shell hardware will not hook to the upper and lower pins of the cane brackets, or if latches will not close, a width adjustment may be needed. Adjust the width as described in **AGILITY Installation**. It may take a few attempts to find the ideal width position for your wheelchair.
- If latches will not close, check to see if safety locks are in the LOCKED (🔐) position. Safety locks should be in the UNLOCKED (🔓) position to install the AGILITY, and then LOCKED (🔐) before the individual is seated in the wheelchair.

Not able to correctly attach components during **AGILITY Installation and Height Adjustment**
- Make sure the back shell hardware -- left (L) and right (R) -- are on the correct sides.
- Make sure the width/height adjustment nuts are in the same position in the triangle brackets. Use the reference grooves as guides. See **AGILITY Installation**.
- Make sure that the back shell hardware is the same height on both sides. For each side, count the number of square openings that are visible in the sliding height adjustment bar (See **Height Adjustment and Parts Detail**.)

Not able to correctly attach components during **Seat Depth and Angle Adjustment**
- Make sure that the left (L) and right (R) depths are equal. Compare the markers on the top of the triangle brackets.
- Make sure that the left (L) and right (R) double hooks are rotated to the same angle. Compare the markers on the front of both double hooks.

Maintenance

⚠️ **Warning:** DO NOT continue to use an AGILITY if any part is broken or cannot be tightened. Periodically, the AGILITY should be thoroughly inspected by an equipment provider.

Check daily to confirm the tightness of AGILITY screws, nuts, clamps, and brackets. Retighten loose screws, following the instructions in this manual.
Cleaning and Disinfecting

Cleaning and disinfecting are separate processes. Cleaning must precede disinfection. Before use by a different individual: clean, disinfect, and check product for proper functioning.

⚠️ Cautions:
- DO NOT use abrasives such as steel wool or scouring pads on components of an AGILITY.
- DO NOT use cleaning products containing petroleum or organic solvents [i.e. acetone, toluene, Methyl Ethyl Ketone (MEK), naphtha, dry cleaning fluids, adhesive removers] on components of an AGILITY.

To Clean Hardware: Hand wash in warm (40°C) water with soap and a sponge. Rinse with clean water. Wipe dry with a clean cloth and then allow to air dry completely.

To Disinfect Hardware: Wipe gently with a cloth dampened with a household disinfectant. Rinse with clean water. Wipe dry with a clean cloth and then allow to air dry completely.

Storage, Disposal and Recycling

Storage: Clean and disinfect the product before storing. Store the product in a container that protects the product from moisture, contaminants and damage.

Disposal: The components of the products in this manual are associated with no known environmental hazards when properly used and when disposed of in accordance with all local/regional regulations. Incineration must be performed by a qualified, licensed waste management facility.

Recycling: Contact a local recycling agency to determine recycling options for the product. For more recycling information, contact ROHO, Inc.

Limited Warranty

Limited Warranty Term, from the date the product was originally purchased: Back Shell Hardware: 60 months. See also the ROHO Limited Warranty supplement provided with your product, or contact Customer Care.