

ROHO[®] AGILITY[®]

Back System

ROHO[®] AGILITY[®] Back System Operation Manual

Includes instructions for ROHO AGILITY Back Shell, Cover, and Accessories.

  Use this operation manual with the instructions provided with your ROHO AGILITY Back System Hardware.



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.

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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ROHO, Inc. has a policy of continual product improvement and reserves the right to amend this document. A current version of this document is available at permobilus.com.

Intended Use

ROHO® AGILITY® Back Systems (AGILITY) are replacement backrest systems for wheelchairs that are intended to provide trunk/pelvis support and positioning. AGILITY contours 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)

AGILITY have a weight limit of 300 lbs. (136 kg) and must be properly sized to the individual.

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.



CONTRAINDICATION: AGILITY Max Contour is **NOT** intended to be used with ROHO AGILITY Laterals.

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 should 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.
- **DO NOT** lift or push a wheelchair using any part of an AGILITY because it may become detached from the wheelchair.
- 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.



Cautions:

- **DO NOT** expose the product to high heat, open flames or hot ashes.
- AGILITY is intended to be used with an AGILITY cover, foam pad, lumbar support pad (if applicable), and either the air insert or the foam insert (if applicable).
- Changes in altitude may require adjustment to air insert(s).
- Protect the AGILITY from blunt force shocks that may cause damage and/or breakage.
- The components of an 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.
- Check AGILITY components daily for wear or damage. **DO NOT** use an AGILITY if any component is not functioning properly or is broken. Periodically, the AGILITY should be thoroughly inspected by a qualified technician.



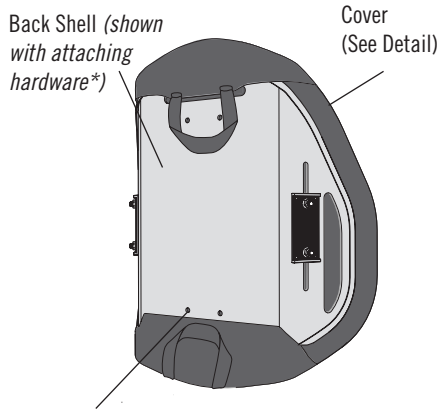
Warnings - Motor Vehicle Transportation Important Safety Information:

- **Whenever possible, transfer out of your wheelchair installed with AGILITY and into a manufacturer-installed vehicle seat, and use the vehicle's crash-tested occupant restraint system.**
- **To determine whether motor vehicle third-party testing has been performed with your specific hardware-AGILITY combination, refer to the operation manual provided with your AGILITY hardware.**

Parts Detail

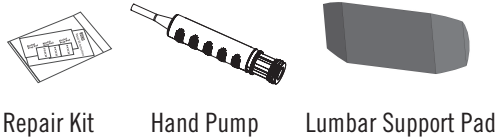
This operation manual references the following package contents, depending on the model: Back Shell, Back Shell attaching hardware, cover, foam pad and inserts, hand pump, repair kit, ROHO AGILITY Lumbar Support Pad

*For additional product information, refer to the hardware operation manual provided with your ROHO AGILITY Back System. 



Pre-drilled holes (x4) for attaching a universal headrest mount. Note: Pre-drilled holes are not available on AGILITY models that are 10 in. (25.5 cm) in height.

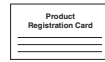
Accessories (depending on the model):



Repair Kit Hand Pump Lumbar Support Pad

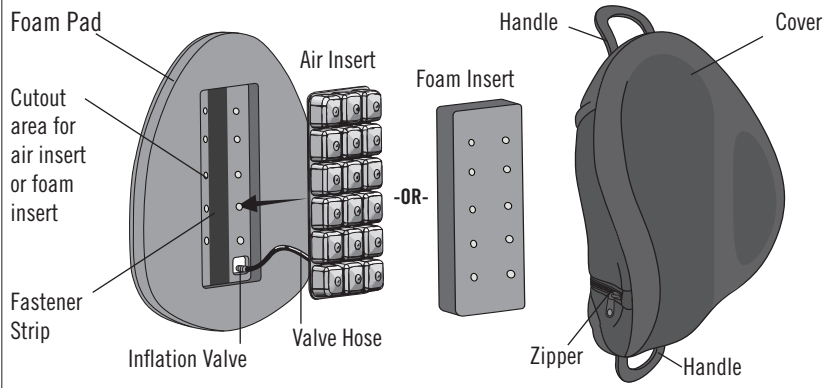


Operation Manual

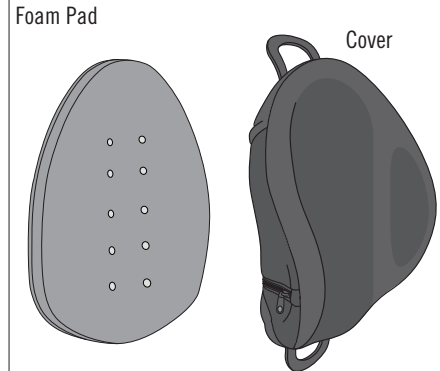


Product Registration Card

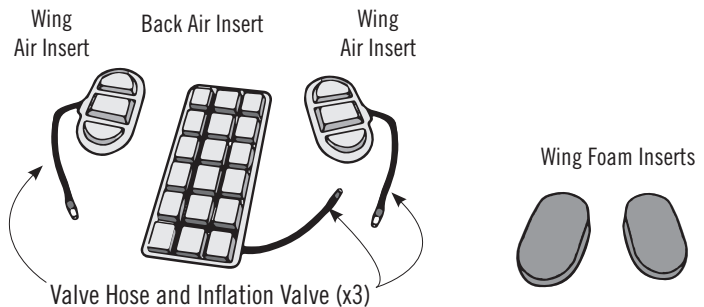
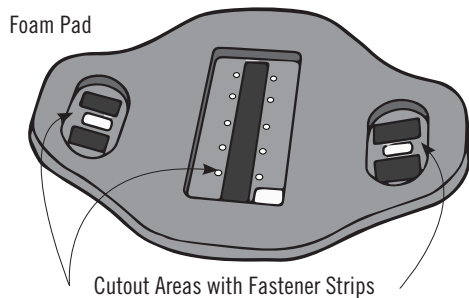
Cover with Foam Pad + Air Insert or Foam Insert



Cover with Foam Pad only



AGILITY Max Contour Cover Components



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

Product Specifications

Materials:

Back Shell: Aluminum

Attaching Hardware: Steel, aluminum, Zytel

Cover: Spacer fabric front and back center panel, fluid-resistant back panels and flaps, with hook and loop fasteners to secure the cover to the back shell.

Foam Pad: Polyurethane front; polyethylene back

Foam Insert: Polyurethane

Air Insert: Polyether polyurethane front; urethane-coated nylon back

Lumbar Support Pad: Polyurethane


Product Specifications, Continued

All measurements are approximate.

Adjustable Width (W) Fits Wheelchair Width Range - in. (cm):	AGILITY Height (H) - in. (cm):	Shown with ROHO® AGILITY® Back System Quick Release Hardware
13 to 14 (33.0 to 35.5) 14 to 15 (35.5 to 38.0) 15 to 16 (38.0 to 40.5) 16 to 17 (40.5 to 43.0) 17 to 18 (43.0 to 45.5) 18 to 19 (45.5 to 48.5) 19 to 20 (48.5 to 51.0)	10 (25.5) 13 (33.0) 16 (40.5) 18 (45.5) 20 (51.0)	
Width (W) measurements are taken from the outside of the back cane to the outside of the back cane. Adjusting AGILITY to the smallest width within a wheelchair width range will result in ½ in. (1.5 cm) loss of seat depth.	Height (H) measurements are taken from the center edge to the center edge between the narrow and wide ends of the back shell. Note: The cover assembly is not included in the height measurement.	

AGILITY Depth (D) Range		
	Depth Range (in.)	Depth Range (cm)
Minimum Contour	3 to 3½	7.5 to 9.0
Mid Contour	3¾ to 4¼	9.0 to 11.0
Max Contour	6½ to 7¼	17.0 to 18.0

AGILITY Back Systems are measured for depth (**D**) with covers and with air inserts that are inflated to allow for ½ in. (1.5 cm) of immersion. Measurements are taken from the center, front surface to the highest point of the the contoured edge. Foam-only models: Subtract ½ in. (1.5 cm) from the depth.



AGILITY Back Shell Weight Range		
	Weight Range (lb.)	Weight Range (kg)
Minimum Contour	2.5 to 5.25	1.1 to 2.3
Mid Contour	2.5 to 6.0	1.2 to 2.8
Max Contour	4.25 to 6.5	2.0 to 3.0
Depths and weights are based on W x H in. (cm): AGILITY Minimum Contour: 14 x 10 (35.5 x 25.5); 20 x 18 (51.0 x 45.5) AGILITY Mid Contour: 14 x 10 (35.5 x 25.5); 20 x 20 (51.0 x 51.0) AGILITY Max Contour: 14 x 16 (35.5 x 40.5); and 20 x 20 (51.0 x 51.0)		

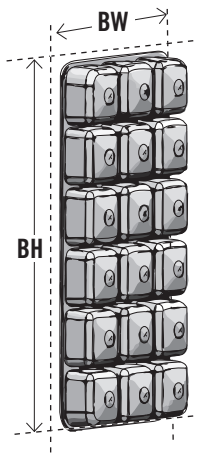
Adjustable Back Air Insert (Minimum, Mid and Max Contour)

Width (BW): 3 cells, 6.5 in. (16.5 cm)

Cell Depth (CD) when fully inflated: 1¼ in. (3.0 cm)

		Height (BH)				
# Cells		3	5	6	7	8
in.		6½	10½	12½	14½	16½
(cm)		(16.5)	(27.0)	(32.0)	(37.0)	(42.0)

Perimeter included in width and height measurements: ¼ in. (1.0 cm)



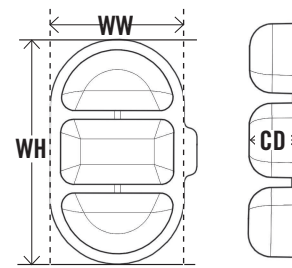
Adjustable Wing Air Inserts (Max Contour)

Width (WW): 4¼ in. (10.5 cm)

Height (WH): 7 in. (17.5 cm)

Cell Depth (CD) when fully inflated: 1¾ in. (4.5 cm)

Perimeter included in width and height measurements: ¼ in. (1.0 cm)



Cover Removal and Installation

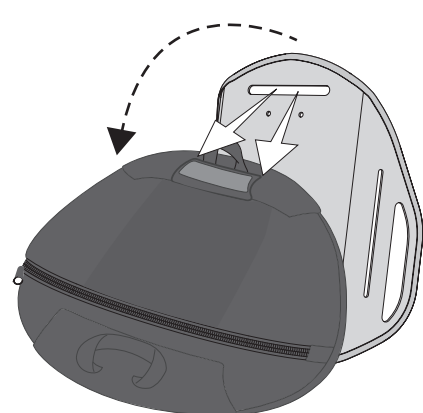
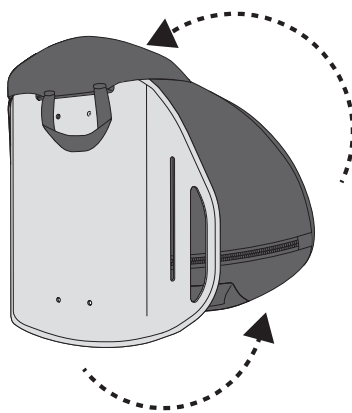
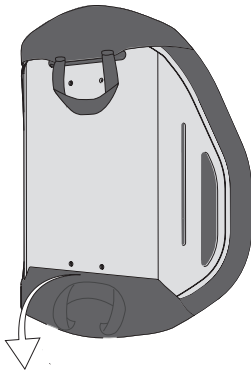


Warnings:

- **DO NOT** remove or install the AGILITY cover while the individual is in the wheelchair.
- **DO NOT** use an AGILITY without the cover, foam pad, and, if applicable, the air insert or foam insert.
- Inspect the cover for damage and replace if necessary.

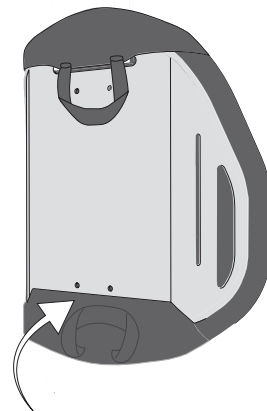
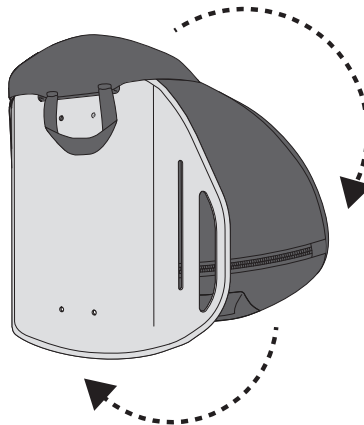
To Remove The Cover

- 1) On the wide end of the shell: Pull down to release the cover flap.
- 2) Pull the cover away from the shell.
- 3) Lift the cover over the narrow end of the shell. Pull to release the hook fastener strip on the tab.
- 4) Pull the tab through the slot.



To Install the Cover

- 1) On the back side of the shell, push the tab, but not the handle, through the slot at the narrow end. Press to attach the tab to the shell.
- 2) Lift the cover over the narrow end of the shell.
- 3) Make sure the zipper faces the shell, and press to attach the cover to the front side of the shell.
- 4) Pull the wide end of the cover over the wide edge of the shell. Press to attach the cover flap to the shell.



To Remove the Foam Pad, Air Insert or Foam Insert

- 1) Unzip the cover.
- 2) Remove the foam pad from inside the cover with the insert still attached.
- 3) Detach the insert from the fastener strip in the cutout area of the foam pad.
- 4) For air inserts: Pull the valve hose back through the hole in the foam pad.

Cover Components Installation

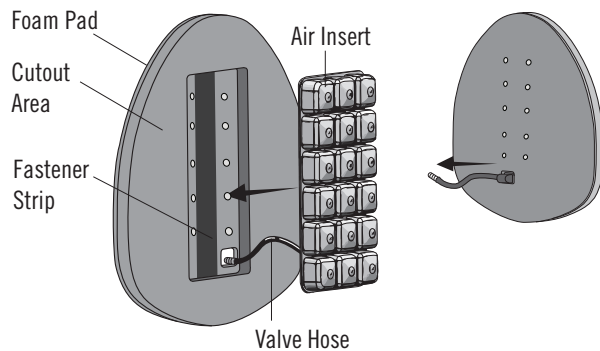
Warning: The air insert and the foam insert are not intended to be used together.

To Install the Foam Pad (for foam-only models)

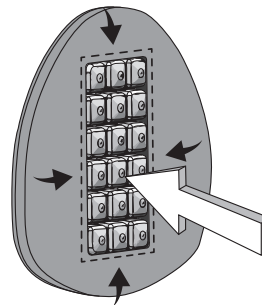
- 1) Unzip the cover and place the foam pad into the cover. Note: The wide and narrow ends of the foam pad should be aligned with the wide and narrow ends of the cover.
- 2) Zip the cover closed.
- 3) Install the cover on the back shell.

To Install the Foam Pad with the Air Insert

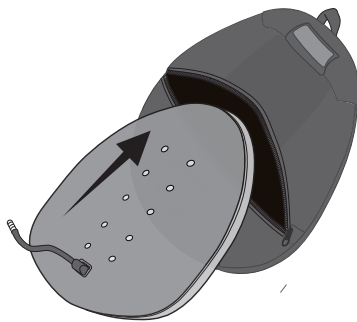
- 1) Slide the valve hose through the hole in the foam pad. The air cells should face out.



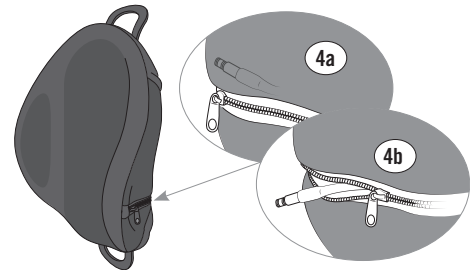
- 2) Tuck the edges of the air insert under all of the edges of the cutout area. Press to secure the air insert to the fastener strip in the cutout area.



- 3) Unzip the cover. Place the foam pad and air insert into the cover. The air insert should face the front of the cover. The wide and narrow ends of the foam pad should be aligned with the wide and narrow ends of the cover.

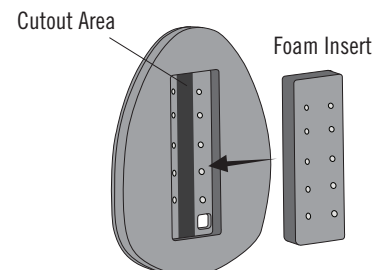


- 4) a. If adjustment of the air insert is not needed: Place the valve hose inside the zipper area. Zip the cover closed. Install the cover on the back shell.
- 4) b. If adjustment of the air insert is needed: Partially zip the cover closed allowing access to the inflation valve. Install the cover on the back shell. See **TO ADJUST THE AIR INSERT**.



To Install the Foam Pad with the Foam Insert

- 1) Align the foam insert with the cutout area. Press to secure the fastener strips.
- 2) Unzip the cover and place the foam pad with the foam insert attached into the cover.
Note: The side of the foam pad with the foam insert should face the front of the cover. The wide and narrow ends of the foam pad should be aligned with the wide and narrow ends of the cover.
- 3) Zip the cover closed.
- 4) Install the cover on the back shell.



Cover Components - Air Insert Adjustment



Warnings:

- Check inflation frequently, at least once a day!
- The air insert must be used with the air cells facing the individual.
- The individual's comfort level may be reduced if an air insert is not positioned correctly, is not properly sized to the foam pad, or is under-inflated or over-inflated.
- If an air insert does not appear to be holding air, see TROUBLESHOOTING. If the air insert is still not holding air, replace the air insert with the foam insert and contact ROHO, Inc. or your equipment provider.
- Changes in altitude may require adjustment to an air insert. Check the inflation level of any air inserts when changing altitude.



Cautions:

- If an air insert has been in temperatures less than 32°F / 0°C and exhibits unusual stiffness, allow the air insert to warm to room temperature, then open the inflation valve. Roll up the air insert and then unroll it until the polyurethane is soft and pliable again. Repeat adjustment instructions before using.
- Keep air cells away from sharp objects.



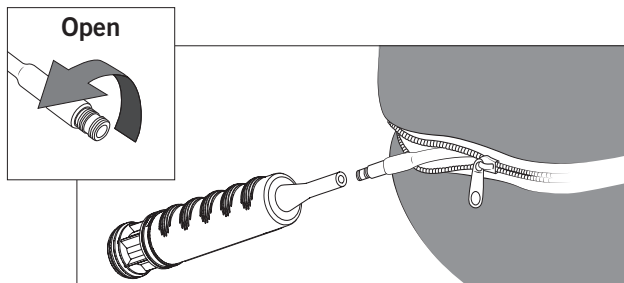
DO NOT:

- use an air insert as a seat cushion.
- expose an air insert to high heat, open flames or hot ashes.
- use the valve hose as a handle to carry or pull an air insert.
- use an air insert as a water flotation device (e.g., a Life Preserver).
- use both an air insert and a foam insert together.
- use a pump, cover, foam pad or repair kit, other than those provided by ROHO, Inc., with an air insert. Doing so may void the product's warranty.

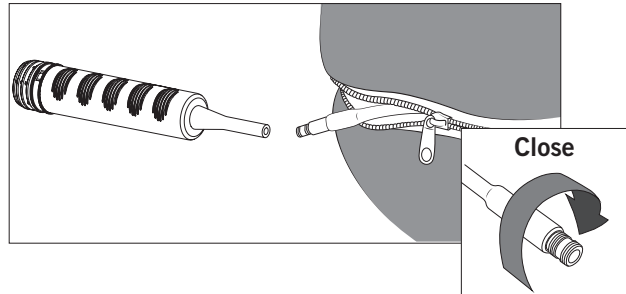
To Adjust the Air Insert

Notes: Before you adjust the air insert, make sure the cover with the foam pad and air insert are correctly installed on the back shell. Make sure that the AGILITY is correctly installed and adjusted on the wheelchair.

- 1) Slide the rubber nozzle of the hand pump over the inflation valve. Pinch the nozzle and open the inflation valve. Inflate the air insert until it feels firm.

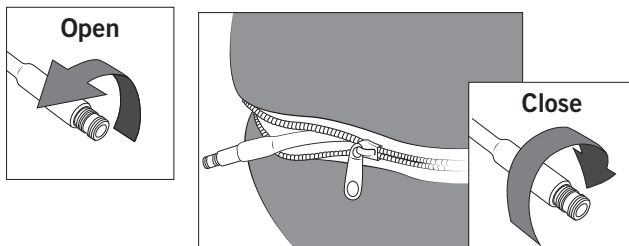


- 2) Pinch the rubber nozzle of the hand pump and close the inflation valve completely. Remove the hand pump.



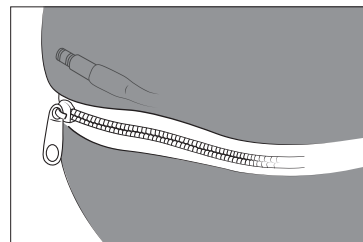
Warning: Safely transfer the individual into the wheelchair.

- 3) The individual may be seated in the wheelchair in their normal position. Open the inflation valve. Remove air until the individual is comfortable. Close the inflation valve.



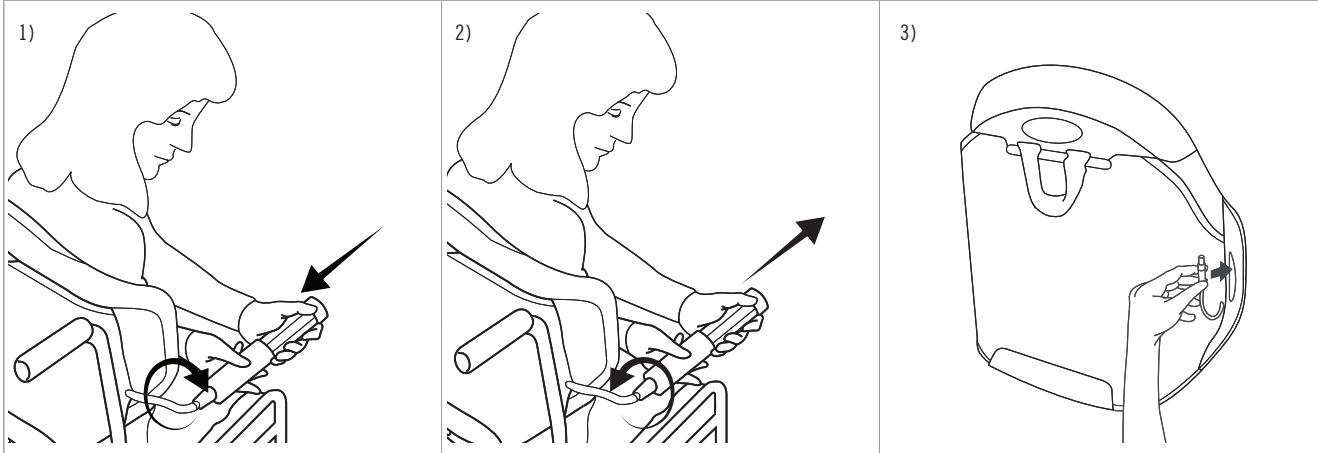
Warning: Safely transfer the individual out of the wheelchair.

- 4) Detach the flap closest to the zipper. Place the valve hose inside the zipper. Zip the cover closed and reattach the flap.



Cover Components - Air Insert Adjustment, Continued

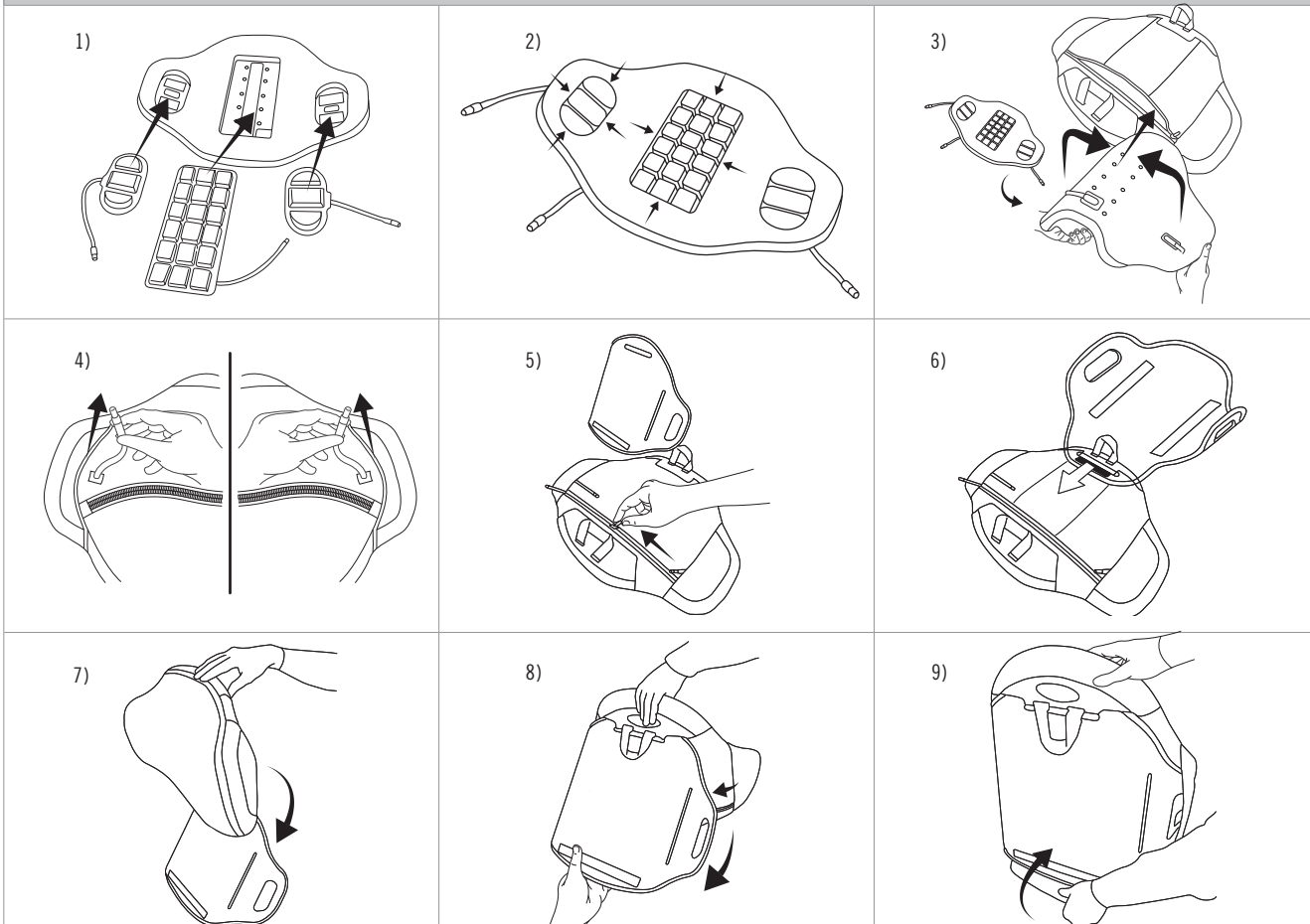
To Adjust AGILITY Max Wing Air Insert



Cover and Components - AGILITY Max

Warning: DO NOT install or remove an AGILITY cover or components while the individual is in the wheelchair.

To Install AGILITY Max Cover and Components



To Remove AGILITY Max Cover and Components

Reverse steps 1 through 9 above.

Accessories



Warning: DO NOT install accessories on an AGILITY while the individual is in the wheelchair.

Headrests



Warning: If a headrest is necessary, follow the headrest manufacturer's instructions and safety information.

Note: Before installing another manufacturer's headrest, consult with a clinician or service provider to ensure the headrest is compatible with your AGILITY.

ROHO AGILITY Lumbar Support Pad

The Lumbar Support Pad provides added support to the lumbar region. (Not included with all models.)

Package contents include hook and loop fastener strips. The hook side of the fastener strip is pre-attached to the back of the Lumbar Support Pad.

To Install a Lumbar Support Pad:

Detach the cover flap closest to the zipper and unzip the cover.

1. Place the lumbar support inside the cover positioned at the curve of the spine, or where it is most comfortable.

Notes: The Lumbar Support may be placed either in front of or in back of the foam pad.

Placement behind the foam pad is recommended for models with the air insert.

Placement in front of the air insert may reduce the performance of the air insert.

2. Remove the backing from the loop side of the fastener strip and secure the lumbar support pad in the desired position.

Note: If the loop fastener strip is attached to the inside of the cover, the fastener strip may need to be replaced after multiple cover washings.

3. Zip the cover closed and re-attach the cover flap.

To Remove a Lumbar Support Pad:

1. Detach the cover flap closest to the zipper and unzip the cover.
2. Carefully detach the hook and loop fastener strips from each other.

ROHO AGILITY Laterals



Warning: AGILITY Max Contour is NOT intended to be used with any laterals.

Note: Only ROHO AGILITY Laterals should be used with ROHO AGILITY Back Systems. Laterals are intended to be used only with ROHO AGILITY Minimum Contour Back System and ROHO AGILITY Mid Contour Back System. Refer to the product information provided with the product.

Troubleshooting

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

The air insert is not holding air.	Confirm that the inflation valve(s) are completely closed (turn clockwise). Inspect for inflation valve and hose damage. Look for holes in the cushion. If very small holes or no holes are visible, follow the instructions in the Repair Kit provided with your product.
The air insert does not feel comfortable.	Add or remove air to adjust to your comfort level. (See COVER COMPONENTS - AIR INSERT ADJUSTMENT). Make sure air cells are facing the front of the wheelchair and the cover is properly positioned (see COVER REMOVAL AND INSTALLATION and COVER COMPONENTS INSTALLATION).
The air insert slides inside the cover.	Make sure it is properly positioned and the fabric back is secured to the fastener strip in the cutout area of the foam pad (see COVER COMPONENTS INSTALLATION). The perimeter of the air insert should be tucked in between the foam layers around the edge of the cutout area.

Limited Warranty

Limited Warranty Term, from the date the product was originally purchased: Back Shell: 60 months; Cover, Foam Pad, Foam Insert, Lumbar Support Pad and Air Insert: 18 months. See also the ROHO Limited Warranty supplement provided with your product, or contact Customer Care.

Cleaning and Disinfecting



Warnings:

- Cleaning and disinfecting are separate processes. Cleaning must precede disinfection. Before use by a different individual: clean, disinfect, and check product for proper functioning.
- If instructed to use bleach, follow the safety guidelines on the bleach container.



= Wipe with damp cloth



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.

Back shell:

To Clean: 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.

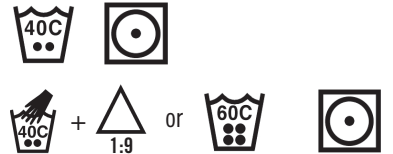
To Disinfect: Wipe gently with a cloth dampened with a household disinfectant. Rinse with clean water. Wipe dry with a clean cloth and then allow to air dry completely.



Cover: Notes: Before cleaning and disinfecting, remove the foam and air components from the cover. Secure the hook and loop fastener strip on the handle at the wide end of the cover. Turn the cover inside out. Zip the cover closed to avoid snags.

To Clean: Machine wash in warm (40°C) water with mild detergent. Tumble dry low.

To Disinfect: Hand wash in warm (40°C) water using 1 part household liquid bleach per 9 parts water. Rinse thoroughly with clean water. Or machine wash in hot (60°C) water. Tumble dry low.



Foam pad, foam insert, and lumbar support pad: Note: Remove the foam components from the cover prior to cleaning.

To Clean: Wipe lightly with a damp cloth. DO NOT use soap. DO NOT submerge in water. Wipe off with a clean cloth. Completely air dry before replacing in cover.

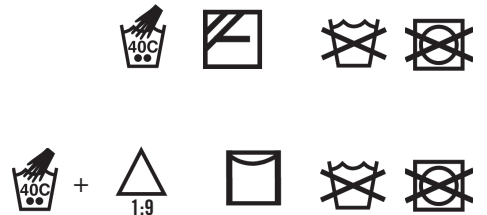
To Disinfect: Note: Disinfectants are NOT effective on porous surfaces such as foam. Replace soiled or contaminated foam components with authorized ROHO foam components only. Replacement foam components may be purchased separately. Soiled or contaminated foam components MUST NOT be used by different individuals.



Air insert: Notes: Remove the air insert from the cover and foam pad prior to cleaning and disinfecting. Make sure the inflation valve is closed. DO NOT allow water or cleaning solution to enter the air insert.

To Clean: Place in large sink or basin with warm (40°C) water. Hand wash, using mild liquid hand soap, hand dishwashing liquid, laundry detergent, or a multipurpose detergent (Follow product label instructions.) Gently scrub all cushion surfaces, using a soft, plastic bristle brush, a sponge, or a cloth. Rinse with clean water. Air dry. DO NOT machine wash or dry. DO NOT expose to direct sunlight.

To Disinfect: Hand wash in warm (40°C) water using 1 part household liquid bleach per 9 parts water. Rinse thoroughly with clean water. Air dry. DO NOT machine wash or dry. DO NOT autoclave.



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.



Mailing/Shipping Address:
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Administrative Offices:
100 North Florida Avenue, Belleville, IL 62221-5429, USA

U.S.: 1-800-851-3449 Fax 1-888-551-3449
Outside U.S.: 1-618-277-9150 Fax 1-618-277-6518

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The Quality Management System
of ROHO, Inc. is certified to
ISO 9001:2008 and ISO 13485:2003.

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