



ROHO® MOSAIC® Cushion

Operation Manual



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

Contact Information

ROHO, Inc.
1501 South 74th St.
Belleville, IL 62223 U.S.A.

U.S.A.:
800-851-3449
Fax 888-551-3449

Customer Support:
orders.roho@permobil.com

Outside the U.S.A.:
618-277-9150
Fax 618-277-6518
intlorders.roho@permobil.com
permobil.com

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.

Contents

Intended Use	2-3
Important Safety Information	
Parts Detail	
Cushion Setup	4
Troubleshooting	5
Product Specifications	
Cleaning and Disinfecting	6
Storage, Transport, Disposal and Recycling	
Limited Warranty	
Español	7
Français	13
Deutsch	19
Italiano	25
Nederlands	31
Português	37
Hrvatski	43
Čeština	49
Eesti	55
Ελληνικά	61
Polski	67
Română	73
Slovenčina	79
Slovenščina	85
Türkçe	91

Incident Reporting

In the event of a serious incident or injury, contact Customer Support.

Symbols Glossary

Manufacturer



Fits



Size (width x depth x height)



Front of product



Date of manufacture



Model number



Weight limit



Back of product



Consult instructions for use



Serial number



Medical Device



Bottom of product



Quantity



Authorized representative in the European Community

Please Note

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®, shape fitting technology®, and MOSAIC®. 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

The ROHO MOSAIC Cushion (MOSAIC) is an adjustable, air-filled, segmented-design support surface that is intended to conform to an individual's seated shape to provide skin/soft tissue protection. There is a weight limit of 315 lbs. (143 kg), and the cushion must be used with an appropriate cover and be properly sized to the individual.

Contraindications: Based on clinical, scientific or engineering evidence, this product may not be suitable for individuals who require accommodation of pelvic asymmetry greater than 1¼ in. (3.2cm).

Compatibility: MOSAIC with the ROHO Heavy Duty Cover is compatible with a wheelchair or a bedside chair (static with armrests or recline with armrests only). MOSAIC with the ROHO Standard Cushion Cover is compatible with a wheelchair.

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:

- 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.
- DO NOT place obstructions between the individual and the cushion. The cushion and the cover MUST be compatible sizes and MUST be used as directed in this manual. Except for the compatible covers listed in "Product Specifications" in this manual, placement of any items between the individual and the cushion: 1) may reduce or eliminate the benefits of the cushion, increasing the risk to skin or to other soft tissue, and 2) may cause the individual to become unstable and vulnerable to falling.
- DO NOT use the cushion on top of, or in conjunction with, any other products or materials, except as indicated in this manual. Using non-compatible products or materials, whether inside or outside the cover: 1) may reduce or eliminate the benefits of the cushion, increasing the risk to skin or to other soft tissue, and 2) may cause the individual to become unstable and vulnerable to falling.
- DO NOT use the cushion as a water flotation device (e.g., a Life Preserver). It will NOT support you in water.
- If you are unable to perform any tasks described in this manual, seek assistance by contacting the clinician, equipment provider, distributor, or Customer Support.

Warnings:

- DO NOT expose the cushion to any source of high heat, including heating pads. Exposure to high heat will accelerate aging and damage the product; the benefits provided by the cushion may be reduced or eliminated, increasing the risk to skin or to other soft tissue.
- DO NOT expose the cushion 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.
- The cushion surface will acclimate to the surrounding temperature. Take appropriate precautions, especially when the cushion will contact unprotected skin.

Cautions:

- Keep the cushion away from sharp objects.
- Changes in altitude may require adjustment to the cushion.
- A cushion that has been in temperatures < 32° F / 0° C may exhibit unusual stiffness. See "Troubleshooting".
- DO NOT use the inflation valve as a handle for carrying or for pulling the cushion. Carry the cushion by the cushion base or by the carrying handle on the Standard Cover. Using any other components to carry or pull the cushion may damage the product.
- DO NOT use a pump, cover, or repair kit other than those compatible with the product.
- DO NOT modify the cushion or any components. Doing so may result in damage to the product and will void the warranty.
- Periodically, check the cover and components for damage and replace if necessary. See "Troubleshooting".

Important Safety Information, continued

Warnings – Motor Vehicle Transportation:

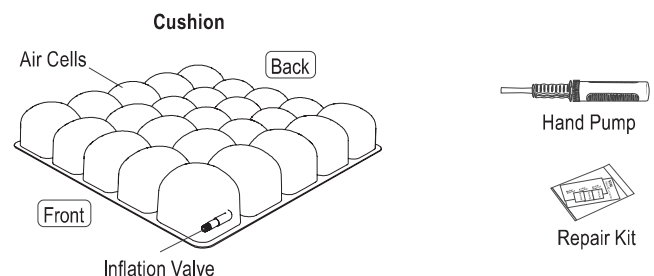
- Failure to pay attention to these warnings could result in severe injury to the individual in the wheelchair or to others.
- Whenever possible, transfer out of the wheelchair and into a manufacturer-installed vehicle seat without the cushion, and use the vehicle's crash-tested occupant restraint system.
- The cushion must be correctly and securely installed, used, and maintained according to the instructions and warnings provided by the cushion manufacturer.
- When the wheelchair is used as the vehicle seat, the cushion should 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 on a wheelchair in the forward-facing position.
- The wheelchair with the cushion 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.
- If the cushion has been involved in an accident during transport, check the cushion for damage and replace if necessary. See the "Troubleshooting" section in this manual.
- For more information about safely transporting wheelchair users, refer to: <http://wctransportation-safety.umtri.umich.edu/ridesafe-brochure>.
- A ROHO QUADTRO SELECT Cushion was included in a wheelchair seating system that was dynamically tested by a third-party testing facility for use in a motor vehicle. The system tested meets all applicable criteria for wheelchair seating systems proposed in Section 5.1 of ANSI/RESNA WC-4:2017 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 seating system combination, refer to all provided equipment operation manuals or contact the equipment manufacturer.

Parts Detail

Package contents: cushion, cover*, repair kit, hand pump, operation manual, limited warranty supplement, product registration card.

**Instructions are provided with the cover.*

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



The serial number label is located on the bottom of the cushion.

Cushion Setup

⚠ Warnings:

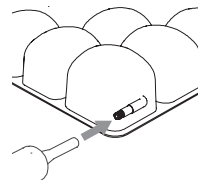
- DO NOT use a product that is underinflated or overinflated, because 1) the product benefits will be reduced or eliminated, resulting in an increased risk to skin and other soft tissue, and 2) the individual may become unstable and vulnerable to falling. Carefully follow the instructions for inflation, placement and hand check.
- If the product does not appear to be holding air, or if you are not able to inflate or deflate the product, see "Troubleshooting". Immediately contact the equipment provider, distributor, or Customer Support if the problem persists.
- When possible, use the hook or loop fasteners to further secure the cushion to the seating surface.
- After setting up the cushion the first time, perform a hand check frequently, at least once a day. When the cushion is used by a different individual or in a different chair, repeat cushion setup, including the hand check. Follow the instructions in this manual.

Inflate, cover, and transfer.

- 1 Inflate:** Slide the hand pump nozzle over the inflation valve. Open the inflation valve. Inflate the cushion until all of the air cells feel firm.

Close the inflation valve until it comes to a stop. Remove the hand pump. Make sure the inflation valve is closed.

Note: To open, turn the inflation valve at least one full rotation. The inflation valve will spin freely when open.



- 2 Cover:** Place the cushion inside the cover. Refer to the instructions provided with the cover.

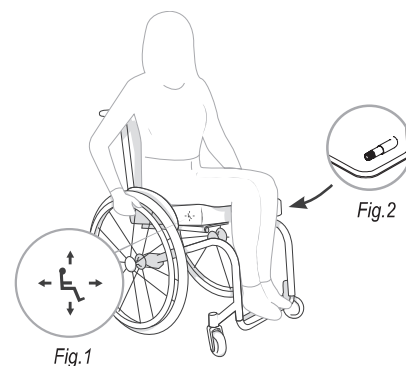
3 Transfer:

- a. Place the cushion on the chair with the air cells facing up and the non-skid surface of the cover facing down.

Note: The symbol showing the seated figure on the cover may be used to help orient cushion. (Fig. 1)

- b. The individual should transfer to the chair and sit in their usual sitting position. Make sure that the cushion is centered underneath the individual.

Note: The inflation valve should be in the front, on the left side of the seated individual. (Fig. 2)



Perform a hand check.

- 4** To perform a hand check, use the width of your fingers to check the amount of air in the cushion. When the cushion has the correct amount of air*, the individual is both immersed in the cushion and supported by air:

- a. Slide your hand between the cushion and the individual, and feel for the lowest bony prominences. *Suggestion: To help locate the bony prominences while performing a hand check, lift and lower the leg.*
- b. Refer to the Hand Check Guide below to adjust the cushion.

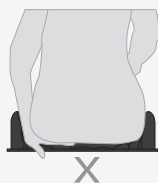
* Recommended distance between the lowest bony prominence and the seat surface = $\frac{1}{2}$ – 1 in. (1.5 – 2.5 cm).

HAND CHECK GUIDE

UNDERINFLATED!

Not able to move fingers.
Not enough air in the cushion.

Risk: Not supported by air.



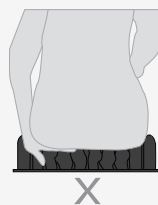
If the cushion is UNDERINFLATED:

Add some air. Close the inflation valve. Perform a hand check again. Repeat until the cushion has the correct amount of air.

OVERINFLATED!

Can move fingers too freely.
Too much air in the cushion.

Risk: Not immersed in the cushion.



If the cushion is OVERINFLATED:

Remove some air. Close the inflation valve. Perform a hand check again. Repeat until the cushion has the correct amount of air.

CORRECT AMOUNT OF AIR!

Able to slightly move fingers.
Immersed in the cushion and supported by air.



If the cushion has the CORRECT AMOUNT OF AIR, it is ready to use.

Troubleshooting

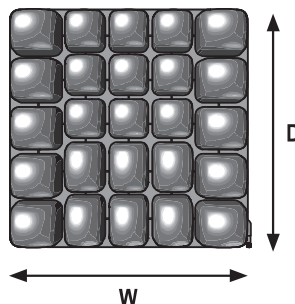
For additional assistance, contact the equipment provider, distributor, or Customer Support.

The cushion is not holding air.	Inflate the cushion. Inspect the inflation valve assembly for damage. Confirm that the inflation valve is completely closed. Look for holes in the cushion. If very small holes or no holes are visible, follow the instructions in the Repair Kit provided with the product. For damage to the inflation valve assembly, or for large holes or leaks in the cushion, see the Limited Warranty supplement, or contact Customer Support.
Not able to inflate or deflate the cushion.	Confirm that the inflation valve is open. Inspect the inflation valve assembly for damage.
The cushion is uncomfortable or unstable.	Confirm that: » the inflation valve is in the front, on the left side of the seated individual. » the cushion is not underinflated or overinflated. » the cushion cells and the top of the cover are facing up. » the cushion is centered beneath the individual. » the cushion is properly sized to the individual. » the cushion is properly sized to the wheelchair (not applicable to bedside chairs). Allow the individual at least one hour to adjust to the cushion.
The cushion slides on the chair.	Make sure that the non-skid bottom of the cushion cover is facing away from the individual. Use directional labels on the cushion and on the cover to orient the cushion. When possible, use hook and loop fasteners to further secure the cushion to the chair. Hook fasteners are available upon request. Refer to the instructions provided with the cover.
The cushion is stiff.	If the cushion has been in temperatures lower than 32° F (0° C) and exhibits unusual stiffness, allow the cushion to warm to room temperature.
A component is damaged.	Contact Customer Support for a replacement.

Product Specifications

Cushion sizing (all measurements are approximate):

Model	W x D in.	W x D cm
1616	16¼ x 16¼	41.5 x 41.5
1618	16¼ x 18¼	41.5 x 46.5
1717	17¼ x 17¼	44.0 x 44.0
1816	18¼ x 16¼	46.5 x 41.5
1818	18¼ x 18¼	46.5 x 46.5
2018	20¼ x 18¼	51.5 x 46.5



Width (W) and Depth (D) are measured edge to edge; includes a ½ in. (1 cm) perimeter

Cell Height Range: 2½ – 3 in. (6.5 – 7.5 cm)

1 in. = 2.54 cm = 25.4 mm

Covers and Accessories Compatible with MOSAIC

Not available in all markets. Contact Customer Support.

- ROHO Heavy Duty Cushion Cover
- ROHO Standard Cushion Cover
- ROHO Planar Solid Seat Insert
- ROHO Contour Base

Cushion materials: flame-retardant PVC film (made without DEHP); inflation valve: Zytel

Cover materials: Refer to the care label on the cover.

Cushion expected lifetime: 5 years

Cleaning and Disinfecting

Cover Care: For cover care instructions, refer to the manual provided with the cover.

Warnings:

- Cleaning and disinfecting are separate processes. Cleaning must precede disinfection. If the product becomes soiled, or between use by different individuals: clean, disinfect, and check the product for proper functioning.
- Clean the product regularly and when it becomes soiled.
- Follow all manufacturer bleach container and germicidal disinfectant safety guidelines.
- Note about sterilization: High temperatures accelerate aging and will damage the product assembly. The products featured in this manual are not packaged in a sterile condition, nor are they intended or required to be sterilized prior to use. If institution protocol demands sterilization: First, follow the cleaning and disinfecting instructions; then, open the inflation valve and use the lowest possible sterilizing temperature, but not to exceed 70°C (158°F), for the shortest time possible. DO NOT autoclave.

Cushion Care

 **Warning:** The inflation valve **MUST** be closed to make sure that water does not enter the product during cleaning or disinfecting.

Cautions:

- DO NOT machine wash or sanitize the cushion or machine dry the cushion.
- Use of the following may cause damage to the cushion: abrasives (steel wool, scouring pads); caustic, automatic dishwasher detergents; cleaning products that contain petroleum or organic solvents, including acetone, toluene, Methyl Ethyl Ketone (MEK), naphtha, dry cleaning fluid, adhesive remover; oil-based lotions, lanolin, ozone gas; ultraviolet light cleaning methods.
- DO NOT expose to direct sunlight.

Recommendation: When washing by hand, use room-temperature water.

Note: Deflated air cells may be easier to thoroughly clean. To deflate the air cells: with the inflation valve open, roll up and/or compress the cushion, and then completely close the inflation valve.

To Clean the Cushion: Remove the cover. Close the inflation valve. Place in a large sink. 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.



To Disinfect the Cushion: Follow the cleaning instructions, using 1 part household liquid bleach per 9 parts water. Keep the product wet with the bleach solution for 10 minutes. Rinse thoroughly with clean water. Air dry.



 **Caution:** Rinse thoroughly. Detergent residue may cause air cells to stick together.

Care Symbols



Hand wash.



Line dry in the shade.



Bleach (1 part bleach: 9 parts water).

Storage, Transport, Disposal and Recycling

Storage or Transport: Clean and disinfect the product. Open the inflation valve. Deflate the product. Place in a container that protects the product from moisture, contaminants and damage. After storing or transporting, inspect the product to ensure it was not damaged (see "Troubleshooting"), and follow instructions to prepare the product for use.

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. At the end of its useful life, treat as healthcare waste and dispose of according to local healthcare-waste guidelines. Incinerate with other healthcare waste. Incineration must be performed by a qualified, licensed waste management facility.

Recycling: Contact a local recycling agency to determine recycling options for the product.

Limited Warranty

Limited Warranty Term from the date the product was originally purchased: cushion, 12 months. The warranty does not apply to punctures, tears, burns, or misuse. See also the instructions provided with the cover and the Limited Warranty supplement provided with the product, or contact Customer Support.