Operating Manual

Model Bari 385
Bariatric Transport Shower Commode Chair

Distributor/Rep: This manual must be given to the caregiver responsible for this chair and its occupant.

Caregiver: Before using this chair, read this manual thoroughly and save for future reference.

Actual product may differ slightly from images in Operating Manual

Contents

FOREWORD

Congratulations on your purchase of a BRODA chair and thank you for your confidence in our company and products.

BRODA assumes a leadership role in providing optimum re-positioning functions and mobility for residents of long-term care institutions. Our chairs do not look like traditional chairs and offer advantages unique to BRODA. We are sure that after using your BRODA chair, you will be convinced that your resident's quality of life will be greatly enhanced.

This manual will assist you in making the best use of the capabilities of your BRODA chair and will ensure that you quickly become familiar with its operation.

GENERAL INFORMATION

This document provides guidance on the safe and effective operation of the BRODA chair.

Information in this manual must be followed at all times.

Anyone involved with the operation or maintenance of the BRODA chair, including the resident's family members, must read this operating manual before using the chair.

The resident's primary caregiver is responsible for ensuring that anyone who is unfamiliar with, unwilling, or unable to adhere to the safety and operating instructions, is not permitted to operate or move the chair.

A copy of this instruction manual must always be available.

BRODA accepts no liability for damages, injury or accidents caused by operating errors, improper maintenance, or disregard of the instructions in this manual, including any resident specific instructions.

BRODA reserves the right to make changes to the specifications, dimensions, functions, or components of its products without notice. Product representations in this manual may vary from delivered products.

Each BRODA chair has a unique identifying serial number that must be maintained on the chair as well as with any equipment records.

1 DEFINITIONS

“BRODA” means BRODA Enterprises Inc. doing business as BRODA Seating.

“BRODA chair” refers to model Bari 385 Bariatric Transport Shower Commode Chair.

“Long-Term Care Institution” refers to a nursing home, hospital, or other healthcare facility that provides health and personal care to its residents on a long-term basis.

“Resident” refers to an individual living in a long-term care institution under the care of professional caregivers.

“Professional Caregiver” refers to doctors, nurses, therapists, nursing aids, healthcare aids, and other specialists who work in a long-term care institution and provide health and personal care to its residents.

“Caregiver” refers to any person in a long-term care institution who is appropriately trained to provide care or services to the resident or the chair used by the resident and may include the resident’s family members or guardian.

“Seat Tilt” refers to changing the relative angle between the chair’s seat and the chair frame or ground without changing the relative angle between the back and the seat.

“Back Recline” refers to changing the relative angle between the chair’s back and the seat.

“Footrest Elevation” and “Leg Rest Elevation” refers to changing the relative angle between the chair’s footrest and/or leg rest and the seat.

“Transfer(s)” refers to the movement of a resident into or out of the chair with the assistance of their caregiver(s).

“Mechanical Transfer(s)” refers to the movement of a resident into or out of the chair with the assistance of their caregiver(s) using a patient lift or other assistive device that bares the weight of the resident.

2 SAFETY REQUIREMENTS

2.1 Training

Before the chair is put into service, this manual must be read thoroughly by the caregiver(s) directly responsible for the resident's care.

After the chair is put into service, this manual must be read thoroughly by any new caregivers prior to operating or moving the chair.

For the purpose of this manual, a resident's family member who shares responsibility for their care is considered a caregiver and is subject to the same competency before being permitted by the resident's primary caregiver to operate of move the chair.

Prior to first use, the customer must arrange for an in-service on the operation and safety requirements in this manual, must be given to the resident's caregivers by the local BRODA representative who supplied the chair.

The primary caregiver must maintain a list of caregivers who have read this manual and who they have authorized to operate and move the chair.

The resident's primary caregiver is responsible for ensuring that anyone who is unfamiliar with, unwilling, or unable to adhere to the safety and operating instructions, is not permitted to operate or move the chair.

The operations of the chair must be performed by the resident's primary caregiver who is responsible for seating. All The operations and adjustments performed should be done in a manner to ensure the overall safety, comfort and well-being of the resident, caregiver and third party. All operations and adjustments required for the resident should be determined by the resident's primary caregiver who is responsible for seating.

2.2 Application

BRODA chairs are intended exclusively for residents of long-term care institutions who are under the care of professional caregivers. The suitability of a BRODA chair must be determined by a qualified caregiver who is familiar with the seating needs of the intended resident. Any other use of the chair is excluded from possible liability claims.

The chairs are not explosion resistant and must not be used where there are flammable gases or liquids present (e.g., anesthetics, volatile solvents and cleaners, etc.)

BRODA chairs are designed for use with specific BRODA parts and accessories. The use of non-BRODA parts or accessories with a BRODA will void the warranty and is excluded from possible liability claims.

BRODA chairs may only be used as described in this manual and with proper regard for recognized healthcare and workplace safety and accident prevention practices.

2.3 Shipping and Storage

BRODA chairs should be shipped and stored in an upright position and not stacked higher than 3 boxes. No other materials should be shipped or stored on top of a BRODA box. BRODA boxes should not be placed on pallets.

BRODA chairs should be shipped and stored at temperatures between -20ºC and 40ºC. BRODA chairs should not be used until they are between 0ºC and 30ºC.

BRODA Commode Shower Chairs should be wiped dry after use. Do not leave BRODA chairs outdoors as it may cause the paint to peel.

Upon receipt, the shipping carton must be immediately examined for damage. Any damage should be noted on the delivery receipt and a request for inspection by the transportation company should be made. Next, the shipping carton should be opened and the chair must be examined for concealed shipping damage. If the chair appears to be damaged, do not use the chair. File a concealed damage report with the transportation company.

2.4 Pre-Service Check

BRODA chairs are delivered fully assembled. If the chair does not appear to be ready to use upon receipt, immediately contact your supplier and do not put the chair into service until any concerns have been resolved.

Visually inspect the chair for damage, missing parts, and loose fasteners prior to testing the chair's functions. Functional testing must be successfully completed after visual inspection and before use. These obligations apply to the chair's first use and to all subsequent uses (Section 4: Inspection and Functional Testing).

2.5 Hazards

2.5.1 Position of Chair - "Danger of Falling"

After a resident is transferred into a chair, asses the amount of tilt required. We recommend that the chair's seat be tilted sufficiently to prevent the resident from sliding or falling forward off the chair. The amount of seat tilt used should be determined by the resident's caregiver who is responsible for seating.

We recommend that the resident's feet be correctly positioned on the footrests and slightly to fully elevated to prevent the resident from sliding or falling forward off the chair. The amount of elevation used should be determined by the resident's caregiver who is responsible for seating.

2.5.2 Position of Seat Tilt - "Danger of Tipping"

We recommend that the chair's seat be tilted sufficiently to prevent an agitated resident from tipping the chair forward or backward, or from slumping and sliding in the chair. The amount of seat tilt used should be determined by the resident's caregiver who is responsible for seating. Always ensure that the resident is properly positioned before operating the seat tilt.

2.5.3 Location of Chair - "Danger of Tipping or Falling Objects"

We recommend that when a resident has been moved to their destination, the chair is placed where the resident cannot reach handrails or other objects, fixed or movable. This is to prevent the resident from pulling the chair over or pulling themselves off the seating surface and to prevent the resident from pulling movable objects onto the chair and themselves.

We recommend that the chair be used in a supervised area to prevent untrained residents, caregivers, or third parties from unauthorized operation, movement, or unsafe actions such as sitting or leaning on the reclined back, elevated footrest, or the armrests. These actions, if not prevented, put the chair at risk of tipping or damage to the chair.

We recommend that a chair only be located on a level surface to minimize the risk of tipping over.

2.5.4 Total Lock Wheel Brakes - "Danger of Falling"

The special casters found on the BRODA chair have total lock brakes which prevent the wheels from turning and swiveling. The brakes must always be applied when:

1) the chair is not in use or unattended
2) the chair is not being moved by the caregiver
3) a resident is being transferred (moved) into or out of the chair;
4) the chair is on an uneven surface where it could roll,
5) (prior) to tilt or reclining.

It is important to note that if the wheel locks are applied while the patient is in the chair, that the caregiver does not leave the patient unattended, especially those patients who have the capability or tendency to move the chair and/or those who may be agitated. This could cause harm to the patient if they attempt to move the chair while the wheel locks are applied.

Note that removing and attaching the footrest may be easier for the caregiver with the brakes applied

Failure to follow these instructions will unnecessarily increase the risk of serious falls by residents, caregivers, or third parties caused by the chair unintentionally moving.

2.5.5 Re-Positioning of Resident - "Danger of Clamping"

BRODA chairs offer the benefits of seat tilt, back recline, leg rest/footrest elevation, and moveable arms. During the movement of any of these functions, the following safety measures must be observed:

1) The resident's arms must be positioned on the armrests or inside the chair frame with their hands on their body or on.
2) The resident's feet must be correctly positioned on the footrest.
3) All of the chair's brakes have been applied.
4) Only one caregiver at a time attempts to operate the chair's functions.
5) Only one chair function is operated at a time.
6) The rear wheels are in the trailing position, behind the chair frame.
7) The residents' and caregivers' body are clear of all pinch points.

Failure to follow these safety measures can put the residents' or caregivers' limbs at risk of injury. Residents who may be unaware of their body position or unable to maintain a safe body position are at the most risk of the danger from clamping and caregivers should be more cautious with these residents. A second caregiver may be required to ensure the safety of these residents during these operations.

2.5.6 Unintended Movement - "Danger of Falling or Collision"

We recommend BRODA chairs for indoor use within a long-term care institution and where there is not enough slope to cause the chairs to move unaided. Chairs used where the surface is uneven or sloped are at risk of unintended movement and could become a serious danger to the resident, caregiver(s), or a third party. We recommend that BRODA chairs are located away from stairwells, elevators, and exterior doorways within a long-term care institution.

2.5.7 Improper Restraint Use - "Risk of Serious Injury"

We recommend that alternatives to physical restraints be used with residents while seated in the chair except under the specific instructions of the resident's primary caregiver and with permission of the resident's family or guardian.

2.6 Improper Use

As outlined, the improper use of the chair is dangerous to the resident, caregivers, or third parties, and can consist of, but is not limited to the following:

1) Unauthorized operation of the chair's functions.
2) Unauthorized movement of the chair.
3) Inappropriate use of the chair for a resident who has not been assessed by a qualified caregiver responsible for their seating.
4) Failure to frequently reposition the resident in the chair
5) Attempting to operate of multiple chair functions simultaneously by one or more caregivers.
6) Attempting to move the chair with the brake(s) applied.
7) Leaving the resident unattended in the chair near other objects.
8) Leaving an agitated resident in the chair in an unsupervised area.
9) Leaving a resident unattended.
10) Leaving a resident in a chair on a sloping surface.
11) Leaving a chair unattended on a sloping surface.
12) Using non-BRODA accessories on the chair.
13) Using the chair at temperatures below 0ºC.
14) Using the chair for any use other than its intended purpose.

2.7 Cleaning

BRODA chairs should be wiped clean with soap and water. Diluted household strength ammonia or chlorine based cleaner, as well as a hospital grade cleaner may be used if necessary.

For best cleaning results, certain parts on the chair should be removed: Instructions for removal of the following parts are located in this manual: Ensure that the entire chair including removable and non removable parts is thoroughly cleaned.

Pay close attention to the frame, sockets, fasteners, parts and casters, for an even, thorough clean.

Remove parts for cleaning if desired:
1) Commode Seat
2) Swing Away/Removable Arms
4) Commode Pan and Basket

Thoroughly clean all removable parts as well as the frame and components around the parts and padding that have been removed. To help maintain the function of the gas springs, we recommend keeping them lubricated after each use. A white food grade grease may be used. Solvents such as those found in spray lubricants should not be used.

BRODA chairs should not be cleaned with petroleum based cleaners. Any petroleum based products that come in contact with any vinyl surface should be removed as quickly as possible.

Frequency and method of cleaning the chairs should be determined by facility infection control protocols. If visibly soiled, thoroughly clean the chair immediately as per the cleaning instructions in this manual.

The cleaning instructions in this manual are guidelines only. Results may vary under actual conditions. The information does not relieve the user of proper and safe use of the product and all cleaning agents and consideration for the overall cleaning maintenance of the chair. Cleaning and care instructions must be followed in conjunction with facility infection control protocols.

BRODA will not accept warranty or liability claims on chairs that have not been cleaned according to the instructions or cared for in proper regard for patient, caregiver and third party safety and hygiene. The use of certain agents may be harmful to the surface appearance and lifespan of the vinyl. BRODA assumes no responsibility resulting from the use of such cleaning agents to the vinyl.

Touch up paint is available for the powder coated frame. Please call Broda's Customer Service Department if touch up paint is required. Do not leave BRODA chairs outdoors as the frame is not UV protected. Leaving the chairs outdoors could cause the paint to peel.

2.8 Maintenance

The maintenance on a BRODA chair will vary with the amount of use and the condition of the resident using the chair. We recommend regular visual inspection for signs of wear, damage, loose or missing fittings, and other safety concerns. Also, periodic testing of the chairs functions is appropriate. If a breakage, defect, or operational problem is detected, the chair must be repaired, inspected and tested for function before it is returned to service**.** **The chair should be inspected and tested as often as each use.**

Do not use lubricants that contain solvents. Solvents may compromise any rubber components on the chair. If necessary, white food grade grease or lubricant can be used on any sliding components.

2.9 Resident Specific Instructions

The primary caregiver responsible for the specific resident's seating shall add additional instructions necessary for the safe and effective use of the chair based on their professional experience and knowledge of the resident's specific conditions and requirements.

BRODA representatives are not professional caregivers and will not know the specific requirements of the individual using the chair. BRODA relies on the knowledge, experience, and judgment of the resident's professional caregiver to ensure the specific resident's safety and comfort needs are satisfied while using the chair.

These instructions form an essential part of the Safety Requirements for using the chair and must be made available to all caregivers. Space is provided below to include these instructions.

3 OPERATION AND MOVEMENT

Safety measures as described in Section 1 must be observed when operating the chair's functions or moving the chair. Only authorized caregivers should attempt to operate or move a chair. The caregiver must use proper body mechanics when operating the chair, and be prepared to support the weight of the resident while operating the chair.

3.1 Seat Tilt- Posterior and Anterior

The seat can be tilted to any position from the most upright to the lowest or highest position within its range. This assists the caregiver in changing a resident's body position to minimize falling or sliding forward and improve the resident's comfort. The anterior tilt helps provide a safe sit/stand assist.

To Activate the Seat Tilt:

-Place right hand on bar to assist movement and squeeze tilt handle with left hand.

-Raise or lower seat tilt until desired angle is achieved

Since the BARI 385 is intended for use with heavier occupants, the lifting force of the counterbalancing seat tilt cylinders have been selected appropriately. This means that the seat tilt cylinders will provide so much lifting force that the seat tilt angle may not be increased if the chair is unoccupied or not occupied by an appropriately heavy person.

WARNING: When decreasing the seat tilt while the chair is unoccupied or occupied by a person that is significantly lighter than the lifting capacity of the seat tilt cylinders, the seat may come out of tilt faster than expected.

The Bari 385 seat tilt lifting capacity can be adjusted to provide the appropriate amount of lifting force for the resident in the chair. (See page 10 for instruction.)

If the chair is occupied by a person of an appropriate weight but the force of the seat tilt cylinders cannot be overcome, the operator may choose to initially recline the backrest to distribute the weight of the occupant further back relative to the seat and to gain a mechanical advantage of the outstretched backrest to assist in compressing the seat tilt cylinders. If this approach is used, care should be taken to ensure that the chair does not tip backwards during the procedure from the extra weight applied to the rear of the chair.

If the chair needs to be put into an anterior tilt position, ensure that the legrest length is adjusted to the shortest length, so that the legrest does not hit the ground when the seat is moved into anterior tilt.

Posterior Tilt

Anterior Tilt

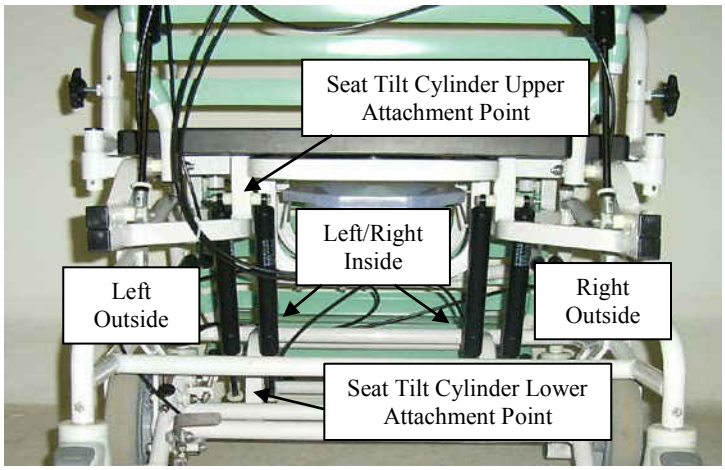
3.2 Seat Tilt Lifting Capacity Adjustment

The seat tilt lifting capacity of the Bari 385 may be configured at one of four settings (see Table/Matrix below), provided the necessary cylinders are available. To perform this adjustment, the bolts at the following locations must be manipulated:

- Seat Tilt Cylinder Upper Attachment Point (Left/Right)
- Seat Tilt Cylinder Lower Attachment Point (Left/Right)

Prior to removing any bolts, please make note of the bolt orientation and the spacers used and reinstall them with the same orientation and spacers. The bolts have been installed at the factory in a specific manner to maximize strength and to ensure the smooth operation of the chair.

Seat Tilt Cylinder Locations



CYLINDER MOUNTING POSITIONS		LEFT OUTSIDE	LEFT INSIDE	RIGHT INSIDE	RIGHT OUTSIDE
CYLINDER CONFIGURATION		LEFT SLAVE CYLINDER	LEFT MASTER CYLINDER	RIGHT MASTER CYLINDER	RIGHT SLAVE CYLINDER
APPROX LIFTING CAPACITY (KG)	**APPROX LIFTING CAPACITY (LBS)**	**CYLINDER FORCE (N)**	**CYLINDER FORCE (N)**	**CYLINDER FORCE (N)**	**CYLINDER FORCE (N)**
61	***135***	***NONE***	***300***	***300***	***NONE***
123	***270***	***NONE***	***600***	***600***	***NONE***
163	***360***	***NONE***	***800***	***800***	***NONE***
184	***405***	***300***	***600***	***600***	***300***
245	***540***	***600***	***600***	***600***	***600***
286	***630***	***600***	***800***	***800***	***600***
327	***720***	***800***	***800***	***800***	***800***

Cylinder Style:

300N = PAB7

600N = PAB 8

800N = PAB 9

3.3 Definitions (Cylinder Table/Matrix):

"Slave" cylinder is the cylinder that does not have an actuator on the end.

"Master" cylinder is the cylinder that has the actuator on the end.

The cylinder force "N" refers to Newtons (lifting force provided by the cylinder)

When changing cylinders make sure, if you are using four cylinders, that the two Slave cylinders are always on the outside position (see picture on previous page) When attaching cylinders, insert the bolts from the inside towards the outside.

The cylinders are labeled as 300N, 600N or 800N. (The 800N has the highest force) **Make sure to check the labeling on the cylinder before attaching it to the chair, in order to ensure the appropriate cylinders are being used for the weight in the chair.**

The Cylinder Table/Matrix on the previous page outlines which cylinder configuration should be used for the amount of weight in the chair, under heading Approx. Lifting Capacity (Lbs)
Example: For a patient who weighs between 270 lbs – 404 lbs use the configuration of no outside (Slave) cylinders and use both 600N cylinders (Master cylinders) on the inside.
If the patient is close to the maximum weight that the particular cylinder configuration is appropriate for, use the guidelines for the next (higher) weight category configuration.

CAUTION: The BARI 385 tilts and reclines when the handles are activated. Setting the cylinder configuration is critical for safe tilting and reclining

CAUTION: Always confirm the cylinder configuration is appropriate for the patient's weight prior to use.

3.4 Back Recline

The back can be reclined to any position from the most upright to the lowest within its range. Use back recline to position the resident, assist with cleaning the abdominal area and with washing the resident's hair.

<u>To Adjust the Back Recline:</u>

WARNING: Always tilt slightly before reclining to prevent resident from sliding.

- Place right hand on the tilt bar and squeeze the tilt handle with left hand.

- Raise or lower the back until the desired angle is required.

WARNING: Do not operate tilt and recline handles together

Back Recline

3.5 Elevating Legrest

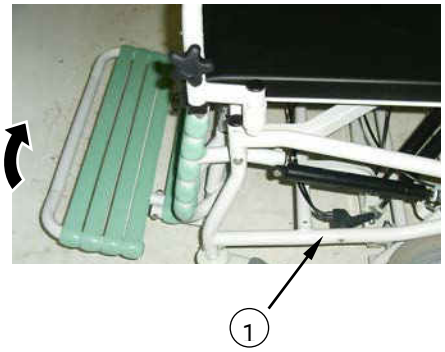
Gas cylinders allow the legrest to be positioned infinitely from horizontal to vertical. The legrest elevates independently from the back recline.

To Elevate the Legrest:

-Hold the legrest to assist movement and squeeze the leg rest handle.

-Raise or lower the legrest to the desired angle.

Elevating Legrest



3.6 Legrest Length Adjustment

The legrest is length adjustable to accommodate various residents.

To Adjust the Legrest Length:

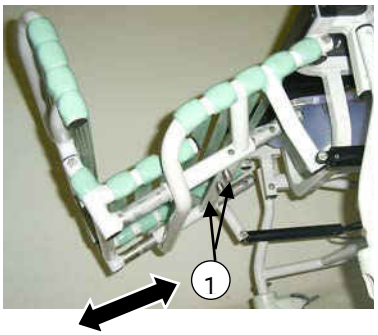
-Squeeze the pins together located behind the upper portion of the legrest.

WARNING: **DO NOT place fingers at the top of the pins as this could cause pinching. Place fingers in the concave shape of the pins.**

-Slide the legrest in the telescopic tube to adjust to the desired length. Hold the lower legrest in the middle to help prevent the mechanism from binding.

- WARNING: DO NOT place fingers anywhere underneath the arm while adjusting, as this could cause pinching. Upon releasing the pins, the legrest position will lock into place.

Legrest Length Adjustment



3.7 Armrest Width and Fore-Aft Position Adjustment

The Bari 385 armrests can be positioned front-to-back and side-to-side. This enables the effective seat width to be increased or decreased to accommodate wide occupants while facilitating passage through standard size doorways and also allows for comfortable leg positioning while voiding.

Three indexed armrest positions are provided.

<u>To Move the Armrest from one Position to Another:</u>

- Loosen both front and rear hand wheels.

- Depress both front and rear detent pins simultaneously.

- While depressing the pins, move the upper armrest assembly in a rotating motion to the desired position.

- Once both detent pins engage, re-tighten both front and rear hand wheels. The armrests may also be positioned in any non-indexed position, by moving the armrest to the desired non-indexed position and tightening the Hand Wheels

CAUTION: Always ensure that both hand wheels are tightened prior to using or loading the armrest with the occupant. If the hand wheels are not tightened, any transverse load applied to the armrest will be carried by the detent pins, which will become crushed and will render them useless.

When depressing the detent pins, ensure that they are depressed fully into the tube. Even prior to moving the armrest, ensure that the detent pins are not encountering any resistance which could prevent them from recessing by removing any vertical and fore-aft horizontal loads. This load-free state can be confirmed by loosely moving the armrest fore and aft prior to swiveling the armrest. If the detent pins are even slightly raised above the surface of the tube, they will prevent the armrest from moving freely. This is the most common reason for the armrests malfunctioning.

Armrest Width and Fore-Aft Position

Wide-Middle Position

3.8 Armrest Installation and Removal

The armrests on the Bari 385 may be removed completely to allow full side access to the occupant.

<u>To Remove the Armrests:</u>

-Loosen the front and rear hand wheels.

-Simultaneously depress both front and rear detent pins, located just underneath the armrest sockets, while pulling the armrest assembly upwards.

<u>To Insert the Armrests:</u>

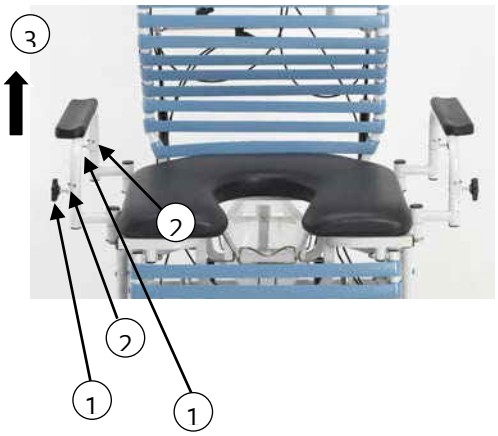
-Loosen both the front and rear hand wheels.(1)

-Align the front and rear pivoting tubes (2) with the armrest sockets while simultaneously depressing both front and rear detent pins. (3) This will allow the armrest assembly to fall into place. Ensure that both detent pins are protruding from the underside of the armrest sockets (4) and retighten both front and rear hand wheels.

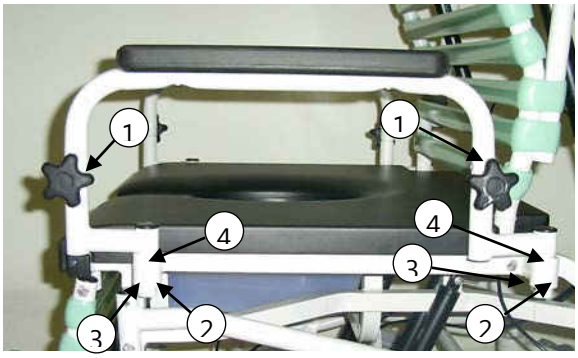
Always remember to loosen the hand wheels prior to removing or installing the armrests. When the hand wheels are tightened the armrest assembly is under slight tension, this will translate into a considerable amount of resistance when attempting to slide the pivoting tubes into or out of the armrest sockets.

To make it easier to depress the front and rear detent pins, while simultaneously moving the armrest assembly upwards during removal, push upwards on the bottoms of the front and rear pivoting tubes protruding from the bottom of the armrest sockets while depressing the detent pins. This way one hand can be dedicated to removing the front portion of the armrest assembly while the other hand can be dedicated to removing the rear portion. By pushing upwards on the bottom of the pivoting tubes while depressing the detent pins, the armrest assembly will be put into a partially removed condition where the detent pins are inside the armrest sockets. From this situation the armrest assembly can easily be pulled out with one hand.

Armrest Removal



Armrest Installation



3.9 Seat Height Adjustment

The seat height of the BARI 385 may be set at either 23" or 21".

<u>To Adjust the Seat Height:</u>

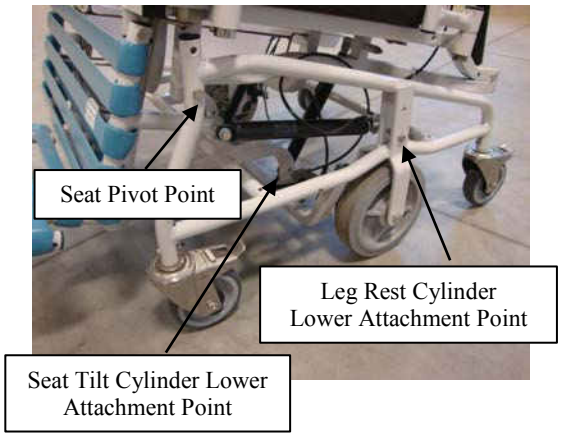
-The bolts at the following locations must be manipulated:

- Seat Pivot Point (Left/Right)
- Seat Tilt Cylinder Lower Attachment Point (Left/Right)
- Leg Rest Cylinder Lower Attachment Point (Left)

At each of the above locations there are two holes provided. The upper holes are intended for the 23" seat height and the lower holes are intended for the 21" seat height. All the components must be attached to the correct hole corresponding to the seat height in order for the chair to function safely and effectively.

Prior to removing any bolts, please make note of the bolt orientation and the spacers used and reinstall them with the same orientation and spacers. The bolts have been installed at the factory in a specific manner to maximize strength and to ensure the smooth operation of the chair.

Seat Height Adjustment



3.10 Seat Depth Adjustment

The seat depth of the BARI 385 may be set at either 23" or 21".

To Adjust the Seat Depth:

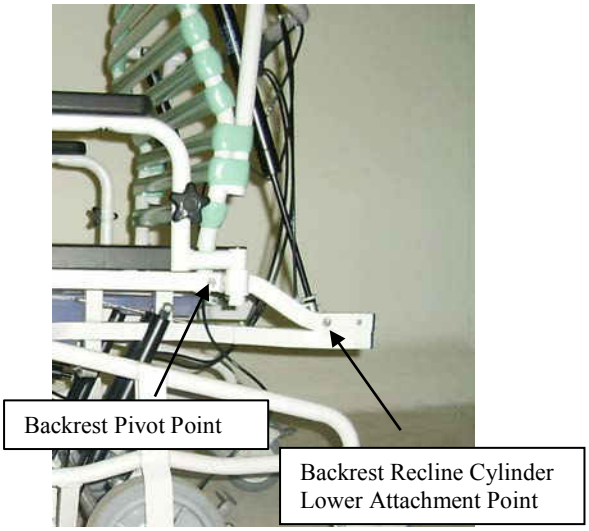
The bolts at the following locations must be manipulated:

- Backrest Pivot Point (Left/Right)
- Backrest Recline Cylinder Lower Attachment Point (Left/Right)

At each of the above locations there are two holes provided. The forward holes are intended for the 21" Seat Depth and the rearward holes are intended for the 23" Seat Depth. All the components must be attached to the correct hole corresponding to the seat depth in order for the chair to function safely and effectively.

Prior to removing any bolts, please make note of the bolt orientation and the spacers used and reinstall them with the same orientation and spacers. The bolts have been installed at the factory in a specific manner to maximize strength and to ensure the smooth operation of the chair.

Seat Depth Adjustment



3.11 Removable Commode Seat

The commode seat is removable for ease of cleaning.

To Remove the Seat:

-Unlock the locating bosses under the seat by swiveling the tab away from the frame.

-Pull up seat and release from frame.

To Attach the Seat:

-Place the seat on the seat frame and align the sides of the seat with the sides of the seat frame.

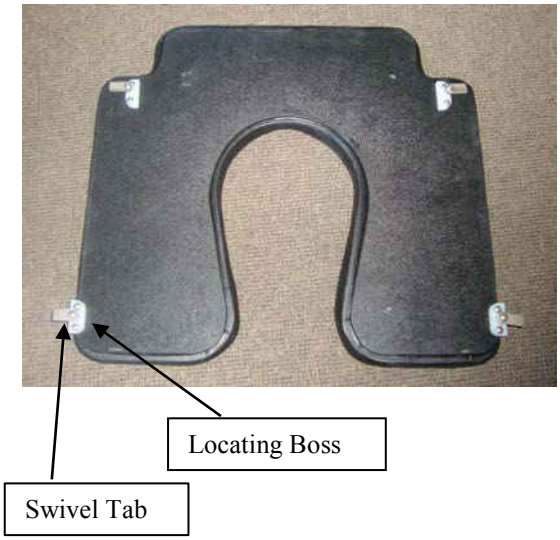
-Once the seat is in aligned with the frame, the seat will drop into place with the locating bosses engaging the seat frame.

-Visually confirm the bottom surface of the seat is resting flat on the top surface of the seat frame.

-Lock the locating bosses by swiveling the tab so it is directly under the frame. This prevents the seat from being lifted up.

WARNING: Ensure the seat is properly attached to the frame before the chair is occupied.

Commode Seat



3.12 Removable Commode Pan

The commode pan and basket are removable

To Remove the Commode Pan:

--Using the handle, push the pan toward the front of the chair.

- While pushing forward, lift the rear of the pan to release the clip from the basket.

- Lift the pan up and over the rear of basket and slide out. If the chair is going to be occupied without the pan for an extensive period of time, it is recommended to remove the basket as well.

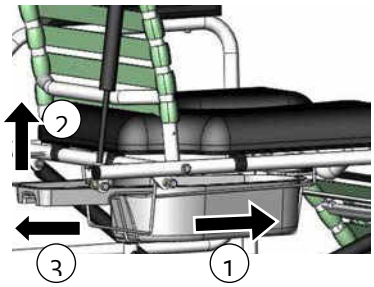
To Insert the Commode Pan:

- Align the pan onto the basket and slide towards the front of chair.

- Ensure the front of pan slides under the front lip of the basket.

- Keep the rear of the pan raised slightly to fit over the basket cross piece.

Removable Commode Seat

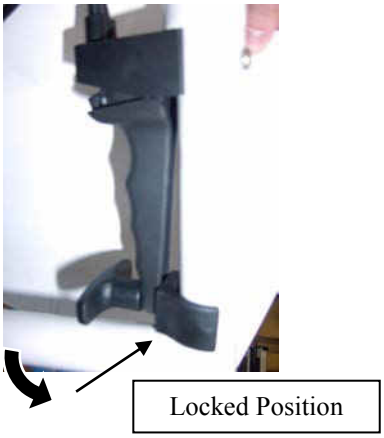


-Lower the pan to secure the pan clip to the basket cross piece.	

3.13 Casters

The Bari 385 features four 5” stainless total lock casters <u>To Operate the Casters:</u> Step on/off the caster pedal to lock/unlock the caster. **Always ensure the brakes are unlocked when wheeling the chair.**	Casters 

3.14 Middle Wheel Brake

The Bari 385 has an emergency brake that quickly locks the 8” middle wheels by engaging the disk brakes. <u>To Lock the Middle Wheels:</u> -Squeeze the cable handle. The speed at which the brake is locked is controlled by the handle. To keep in the locked position, secure the handle to the frame with the clamp. -To Unlock the Middle Wheels: -Release the cable handle clamp from the frame.	Middle Wheel Brake Handle 

3.15 Accessories (Options)

We recommend BRODA accessories for use only on BRODA chairs. The correct installation of the BRODA accessory is very important. We recommend that the BRODA chair is ordered with the required accessories already installed. Only authorized caregivers who thoroughly understand the accessory installation procedures should attempt to install their BRODA accessories without assistance from their local BRODA representative. BRODA does not recommend use of other manufacturer’s accessories on BRODA chairs.

4 INSPECTION AND FUNCTIONAL TESTING

Safety measures as described in Section 1 must be observed when inspecting or testing a chair. Only authorized caregivers or maintenance staff should attempt to inspect or test a chair.

4.1 Inspection

We recommend regular visual inspection for signs of wear, damage, loose or missing fittings, and other safety concerns. If a breakage, defect, or operational problem is detected, the chair must be repaired inspected and tested for function before it is returned to service.

We recommend that the chair be inspected as often as each use if there is any reason to be concerned about the possibility of increased wear or loose or missing fittings. **At a minimum, in regular use the chair should be inspected on a bimonthly basis.** The visual inspection procedure should include at least the observation of all the fittings (fasteners):

The visual inspection procedure should include at least the observation of the following parts:

1) The cylinders that position the seat tilt, back recline, and independent leg rest elevation.
2) The vinyl straps used in the seat, back, leg rest and footrest
3) The black handles and cables.
4) The locating bosses and tabs on the commode seat
5) The 4 casters and 2 middle wheels
6) The legrest length adjustment components
7) The armrest adjustment components.

The visual inspection procedure should include the observation of any installed accessories. The visual inspection should be performed by the facility, or if in a private residence, by the individual responsible for the chair.

4.2 Functional Testing

We recommend that the chair should be tested for operation of the chair's functions without a resident in the chair. The testing may be as often as each use if there is any reason to be concerned about the possibility of increased wear or damage to the chair's components. At a minimum, in regular use the chair should be tested for functions as described in Sections 3.

If the caregiver or maintenance department performing the functional testing believes that any function is not operating correctly, the chair should be taken out of service until a satisfactory functional test can be completed.

The caregiver or maintenance department performing the testing should be aware that the seat tilt, back recline, and footrest (leg rest) elevation operations will be more difficult without a resident in the chair. When performing repairs or maintenance, do not use lubricants that contain solvents. Solvents will damage many of the moving components in the chair. If necessary, a white, food grade grease (lubricant) may be used on the sliding components in the chair. Do not use spray lubricants on any part of the chair.

5 TECHNICAL INFORMATION

5.1 Specifications

Feature	Max	Min	Inc	Comments
Seat Height	23”	21”	2”	Configurable in-field
Seat Width	27”	N/A	N/A	Padded seat width
Effective Seat Width	33”	27”	∞	Distance between armrests
Seat Depth	23”	21”	2”	Configurable in-field
Effective Seat Depth	27”	25”	N/A	Including lower backrest concavity
Seat-Ground Angle	+8º	-14º	∞	+ = Anterior, - = Posterior
Seat Padding	N/A	N/A	N/A	Molded self-sealing urethane foam
Seat Feature (1)	N/A	N/A	N/A	Open front commode seat hole
Seat Feature (2)	N/A	N/A	N/A	Commode Bed Pan Basket
Backrest Height	26”	N/A	N/A	
Backrest Width	26”	N/A	N/A	
Backrest-Seat Angle	+2º	-65º	∞	+ = Anterior, - = Posterior
Footrest-Seat Distance	20.5”	14”	1.5”	
Footrest Length	10”	N/A	N/A	
Footrest Width	25”	N/A	N/A	
Legrest-Seat Angle	110º	17º	∞	
Armrest-Seat Height	8”	N/A	N/A	
Armrest Length	14”	N/A	N/A	
Armrest Width	3”	N/A	N/A	
Armrest Padding	N/A	N/A	N/A	Molded self-sealing urethane foam
Armrest Feature (1)	N/A	N/A	N/A	Fully removable
Armrest Feature (2)	N/A	N/A	N/A	Adjustable armrests distance (indexed)
Armrest Feature (3)	N/A	N/A	N/A	Armrests tilt with seat
Wheel Configuration	N/A	N/A	N/A	4 locking casters, 2 fixed wheels
Wheel Diameter	8”	5”	N/A	5” locking casters, 8” fixed wheels
Min Turn Radius	N/A	28”	N/A	
Frame Feature (1)	N/A	N/A	N/A	Drainage, no significant water accumulation
Frame Feature (2)	N/A	N/A	N/A	Stainless steel welded construction
Frame Feature (3)	N/A	N/A	N/A	No rusting fasteners or components
Min Ground Clearance	7.75”	2.5”	N/A	Typically 7.75”
Overall Height	52.5”	28.5”	N/A	Typically 48” or 46” in normal seating position
Overall Width	39”	33”	N/A	Typically 33” with armrests retracted
Overall Length	73”	31”	N/A	Typically 46” in normal seating position
Overall Weight	107lbs	N/A	N/A	Without Accessories
Weight Capacity	800lbs	150lbs	N/A	Determined by cylinder lift capacity and testing
ANSI/BIFMA Testing	N/A	N/A	N/A	Meets adapted testing standards

5.2 Labels

BRODA uses certain labels to assist caregivers to identify items which permit the operation of the chair's functions.

Manufacturer's Label (White)

BRODA®
MADE IN CANADA / FABRIQUE AU CANADA

560 Bingemans Centre Drive, Kitchener, ON Canada, N2B 3X9
PHONE 1 – 519 746-8080 FAX 1-519-746-8616

Serial Number Label (Gray)

BRODA SEATING
1-800-668-0637

PRODUCT #
SERIAL #
MADE IN CANADA

Recline Label (Blue)

BACK RECLINE

SQUEEZE HANDLE

Tilt Label (Tan)

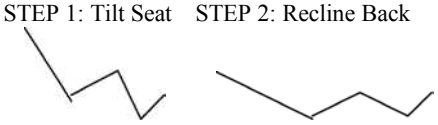
SEAT TILT

SQUEEZE HANDLE

Emergency Brake (Grey)

Tilt and Recline Label (White)

For Proper Positioning
STEP 1: Tilt Seat STEP 2: Recline Back



Armrest Width Adjustment (White)

TO ADJUST ARM WIDTH:

Loosen hand wheels

Press buttons while rotating arm to desired position

Cylinder Configuration Matrix (White)

CYL MNT POSITION		OUTSIDE (L)	INSIDE (L)	INSIDE (R)	OUTSIDE (R)
CYL CONFIG		SLAVE	MASTER	MASTER	SLAVE
LIFT (KG)	LIFT (LBS)	CYL F (N)	CYL F (N)	CYL F (N)	CYL F (N)
61	135	NONE	300	300	NONE
123	270	NONE	600	600	NONE
184	405	300	600	600	300
245	540	600	600	600	600
286	630	600	800	800	600
327	720	800	800	800	800

- LIFTING CAPACITIES ARE APPROXIMATE
- ACTUAL OCCUPANT BODY WEIGHT DISTRIBUTION WILL DETERMINE FINAL CYLINDER SELECTION
- INFORMATION IS FOR REFERENCE PURPOSES ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE

Legrest Adjustment Label (White)

TO ADJUST LEGREST LENGTH:

Squeeze pins behind legrest and adjust to desired length

Weight Capacity Warning Label

Maximum Weight Capacity
800 lbs (363 kg)

Operating Caution Label (Red)

CAUTION: This chair is designed for operation on flat level surfaces only

Operating Label (White) **READ MANUAL THOROUGHLY BEFORE OPERATING CHAIR**	Cylinder Configuration Caution Label (Red) **CAUTION:** Chair tilts and reclines when handles are activated. Setting cylinder configuration is critical for safe tilting and reclining. **SEE CYLINDER MATRIX**
Cylinder Configuration Caution Label (Red) **CAUTION:** Always confirm cylinder configuration is appropriate for occupant's size prior to use	Safety Label (White) Always keep occupants' center of gravity within/over the chair's wheel base
Safety Label (Yellow) Lock all wheels prior to tilting or reclining chair	Safety Label (Yellow) Lock all wheels prior to leaving the chair unattended
Safety Label (White) Use proper body mechanics while manipulating occupant in chair and while operating chair	

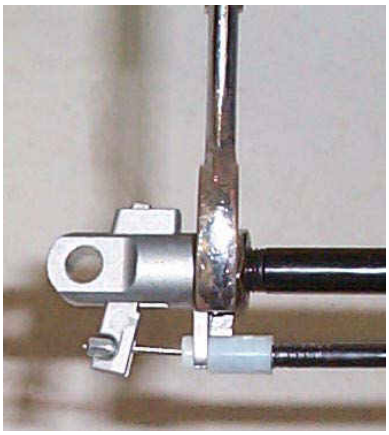
6 COMMON TROUBLESHOOTING AND REPAIR

Please have the chair serial number ready when contacting BRODA or your local area representative for parts or assistance for your chair. The serial number can be found on a grey sticker on the rear of the chair.

6.1 Troubleshooting for Gas Cylinders

The use of gas charged springs (cylinders) on BRODA products allows the caregiver to easily make adjustments to the tilt, recline, and leg rest with a minimal effort. The gas cylinders contain Nitrogen gas, it is not flammable nor is it toxic. The cylinders provide a lifting force which counterbalances the weight of the occupant thereby reducing the amount of weight the caregiver needs to lift.

Symptom	Problem	Solution
The chair is not reclining or tilting or leg rest is not moving when the handle is squeezed	The pin in the end of the cylinder is not being depressed when the handle is pulled.	Ensure the cable is attached to the cylinder actuator. If cable is attached, see **Adjustment Step s**below.
The chair (tilt, recline or leg rest) seems to slowly slide out of position	The pin in the end of the cylinder may be still partially depressed.	See **Adjustment Steps** below**:**

Adjustment Steps:	
-Loosen the lock nut located on the stem of the gas cylinder next to the actuator (17mm or 11/16” wrench) -From the above instruction determine whether you want to wind the stem further into the actuator or further out of the actuator. **Wind the stem further into the actuator if the chair is not tilting or reclining, (wind clockwise) and wind it further out of the actuator if the chair is slowly sliding out of position. (wind counter-clockwise)** -Wind the stem in the correct direction one half turn. -Check the function of the cylinder and repeat the above step until the cylinder functions properly. -Tighten the lock nut loosened in the first step. -If adjusting the cylinder does not correct the problem, the cylinder may need to be replaced. Please contact BRODA at or your local area representative.	 **Note: Cylinder does not need to be removed from the chair to make this adjustment.**

Note: When adjusting cylinders with tools that come in contact with the cylinder rods, a cloth or some other protective material must be used to protect the sliding surface of the rod.If the rod becomes scratched or marred it will damage the seal on the cylinder and the cylinder will fail. **Damaging a cylinder in this fashion voids the manufacturer's warranty.**