

# BRODA® SEATING

## OPERATING INSTRUCTIONS

### Model BARI 385 Commode Shower Chair



Broda Seating

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## **Foreword**

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

BRODA Seating has assumed a leadership position in providing the optimum in re-positioning functions and mobility for residents of long term care institutions. BRODA chairs do not look like traditional chairs and offer unique advantages found only with a BRODA. We are sure that after learning about BRODA, you will be convinced that your residents' quality of life will be greatly enhanced in BRODA chairs.

BRODA's products were designed to be recommended by Professional Caregivers for residents who require long term care as well as patients in a hospital or acute care setting. The maximum benefit to the patient using this chair will be achieved with the advice and assistance of their Caregivers.

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

If you have any questions regarding the safe and effective operation of the BARI 385 or accessories after reading this manual, immediately contact our Head Office Customer Service personnel for further assistance.

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## **General Instructions**

The instructions contained herein provide guidance on the safe and correct operation of a BRODA chair. Safety measures as described in Section 1 must be observed when operating the chair's functions or moving the chair. Only authorized caregivers should operate or move a chair.

Every person that is involved with the operation and maintenance of the BRODA chair, including the patient's family members, must read this instruction manual prior to moving or operating the functions of this chair. A copy of this instruction manual must always be available to these people. No person, including the patient's family members, who is unfamiliar with or is unwilling or unable to adhere to the safety and operating instructions contained herein, should be permitted to operate or move the chair.

A BRODA chair is designed for use within a Nursing Home, Hospital, Acute Care, or Long Term Care facility where the potential users benefit from the assistance and care of professional caregivers.

The safety and operating instructions that are included in this manual are very important to the safe and effective operation of the BRODA chair. The patient specific instructions attached to Section 7, as determined by the patient's professional caregiver responsible for their seating, from a part of the safety requirements detailed in Section 1 must be followed at all times.

BRODA accepts no liability whatsoever for damage or disruptions caused by operating errors, failure to provide proper maintenance, or the disregard of the instructions contained in this manual, including the patient specific instructions.

BRODA reserves the right to make changes to the specifications of the dimensions, functions, and components of its products. Any textual or diagrammatic representations provided are not necessarily exactly the same as the delivered products and are not required to obtain spare parts.

Each BRODA chair is provided with a unique, identifying serial number. This serial number should be maintained on the chair and with your equipment records for future reference to obtain spare parts or additional copies of the operating instructions.

## 1.0 SAFETY REQUIREMENTS

This section must be read by all operators of the BRODA chair before they attempt to use the product. It is the caregiver's primary responsibility to ensure that only people who are familiar with the information contained in this manual are authorized to operate or move the chair.

### 1.1 Before First Use

BRODA chairs are provided fully assembled and ready to use after purchaser inspection, functional testing, and training requirements have been met. If the chair does not appear to be in ready to use condition upon receipt, immediately contact your supplier and do not put the chair into service until after your concerns have been resolved.

The chair must be visually inspected for damage, missing parts, and loose fittings (fasteners) prior to first use or testing the chair's functions. Functional testing must be successfully completed after visual inspection and before first use. These obligations apply both to the first use of the chair and to all subsequent uses. (As described in Section 5, Inspection and Functional Testing)

An in-service on the operation and safety issues, as described in this manual, must be given to the patient's caregivers prior to its first use. (As described in Section 3, Caregiver Management)

**This manual must be read thoroughly by new caregivers, prior to the first time a new caregiver operates or moves the chair and after the chair has been put into service.**

A patient's family member, who shares some of the responsibility for a patient's care, may be considered as a caregiver after they have read this manual, received instruction on the chair's safe use by a professional caregiver, and a caregiver directly responsible for the patient's care has given their approval.

### 1.2 Application

BRODA chairs are intended for patients of long term care institutions who are under the care of professional caregivers. **The Bari 385 is intended to assist Bariatric patients (weighing up to 800 lbs) with shower and commode needs.** The suitability and application of a BRODA chair is to be determined by a professional caregiver who is familiar with the needs and abilities of the patient using the chair. Any other use of the chair is excluded from possible liability claims.

The chairs are not explosion resistant and may only be used where there are no inflammable gases or liquids present such as anesthetics or petroleum based cleaners.

BRODA chairs are designed for use with specific BRODA accessories and spare parts. Any use of non-BRODA spare parts or accessories with a BRODA chair is excluded from possible liability claims. Any use of BRODA spare parts or accessories on a non-BRODA product is excluded from possible liability claims.

### 1.3 Legal Restrictions

BRODA chairs may only be used as described in this manual and with proper regard for recognized health care and work place safety and accident prevention practices. BRODA chairs may not be operated or used with non-BRODA spare parts or accessories, which could endanger patients, staff, or other third parties. The chair may only be moved or operated by caregivers or family members who can guarantee its correct operation because they have read and fully understood this manual and the safety issues discussed herein.

#### **1.4 Position of Chair “Danger of Falling”**

Immediately after a patient is transferred into a chair, we recommend that the chair’s seat be tilted sufficiently to prevent the patient from sliding or falling forward off the chair. The amount of seat tilt used should be determined by the patient’s caregiver who is responsible for seating.

We recommend that the patient’s feet be correctly positioned on the footrests to prevent the patient from sliding or falling forward off the chair. The amount of footrest elevation used should be determined by the patient’s caregiver who is responsible for seating. The patient should be properly guarded at all times to prevent falling.

#### **1.5 Position of Seat Tilt “Danger of Tipping”**

We recommend that the chair’s seat be tilted sufficiently to centralize the patient’s line of gravity in order to prevent the patient 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 patient’s caregiver who is responsible for seating. See Seat Tilt instructions for specifics on cylinder configurations for safe operation of the tilt function.

#### **1.6 Location of Chair “Danger of Tipping or Falling Objects”**

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

We recommend that the chair be used in a supervised area to prevent untrained patients, 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.

**CAUTION: The BARI 385 should only be located and operated on a flat level surface to minimize the risk of tipping over.**

#### **1.7 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 swivelling. The brakes must always be applied when:

- 1) the chair is not in use or unattended
- 2) a patient is being transferred (moved) into or out of the chair;
- 3) the chair is not being moved by a caregiver.
- 4) the chair is on an uneven surface where it can roll.
- 5) (prior) to tilting 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.

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

## **1.8 Re-Positioning of Patient “Danger of Clamping”**

The BRODA Bari 385 offers the benefits of seat tilt, back recline, legrest/footrest elevation, and moveable arms. During the movement of any of these functions, the following safety measures must be observed:

- 1) The patient’s arms must be positioned inside the chair frame with their hands on their body.
- 2) The patient’s feet must be correctly positioned on the footrests.
- 3) The four caster brakes have been applied.
- 4) Only one chair function is operated at a time.
- 5) The rear wheels are in the trailing position, behind the chair frame
- 6) The patient’s and caregiver’s body are clear of all pinch points

Failure to follow these safety measures can put the patient’s or caregiver’s limbs at risk of injury. Patients 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 patients. An additional caregiver may be required to ensure the safety of these patients during these operations.

**Caregivers must use proper body mechanics while manipulating the occupant in the chair and while operating the chair.**

## **1.9 Unintended Movement “Danger of Falling or Collision”**

We recommend BRODA chairs for indoor use within a long term care institution, hospital or acute care facility, 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 patient, caregiver(s), or a third party. We recommend that BRODA chairs are located away from stairwells, elevators, exterior doorways or any other area that could potentially cause harm to the patient, caregiver or third party.

### **1.10 Improper Restraint Use “Risk of Serious Injury”**

We recommend that alternatives to physical restraints be used with patients while seated in the chair except under the specific instructions of the resident’s primary caregiver and with permission of the patient’s family or guardian. Physical restraints have been identified as a common cause of serious injury to patients while they are seated. We recommend that the primary caregiver responsible for seating first considers the re-positioning options available in the chair to reduce the risks of sliding, falling, or self injury.

### **1.11 Improper Use**

The improper use of the chair can be dangerous to the patient, caregivers, or third parties through:

- 1) Unauthorized operation of the chair’s functions.
- 2) Unauthorized movement of the chair.
- 3) Inappropriate use of the chair for a patient who has not been assessed by the caregiver responsible for their seating.
- 4) Attempted simultaneous operation of multiple chair functions by one or more caregivers.
- 5) Attempting to move the chair with the brake(s) applied.
- 6) Leaving the patient unattended in the chair near other objects.
- 7) Leaving a patient in an unsupervised area.
- 8) Leaving a patient in a chair on a sloping surface.

- 9) Leaving a chair unattended on a sloping surface.
- 10) Using non-BRODA accessories on the chair.
- 11) Using the BRODA chair at temperatures below 0 Celsius (32 Fahrenheit)
- 12) Using improper body mechanics while operating the chair
- 13) Using improper positioning techniques on the patient in the chair

### **1.12 Cleaning**

We recommend the chair be wiped clean with soap and water. A dilute household strength ammonia, chlorine based cleaner or hospital grade cleaner may be used if necessary. BRODA chairs should not be cleaned with petroleum based cleaners and any petroleum based products that come in contact with any vinyl surface should be removed as quickly as possible. Petroleum based products make vinyl brittle and will damage the seating surface and cushions. Metal parts and cushions should be wiped dry after cleaning. Solvents such as those found in spray lubricants should not be used on Broda chairs as they can damage moving parts.

Touch up paint is available for the power coated frame. Please call Broda's Customer Service Department if touch up paint is required.

### **1.13 Preventative 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 any 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 as they contain solvents.

### **1.14 Patient Specific Instructions**

The professional caregiver responsible for the patient's seating shall add such additional instructions as are necessary for the safety and comfort of the patients using the chair based on their professional experience and knowledge of the patient's specific conditions and requirements. These instructions form a part of the Safety Requirements for using the chair with that resident and must be made available to all caregivers. (see Section 7)

## **2.0 DEFINITIONS and TECHNICAL INFORMATION**

### **2.1 Definitions**

"BRODA" means Broda Enterprises Inc. doing business as Broda Seating. BRODA "chair" refers to model Bari 385 Commode Shower Chair.

"Long Term Care Institution" refers to a Nursing Home, Hospital, or other Health Care facility that provides health and personal care to its residents on a long term basis.

"Patient" refers to an individual living in a Long Term Care Institution, Hospital, Acute Care facility or other Health Care facility under the care of Professional Caregivers.

“Professional Caregiver” refers to the Doctors, Nurses, Therapists, Nurses Aids, Health Care Aids, and other Specialists who work in a Long Term Care Institution, Hospital, Acute Care facility or other Health Care facility and provide health and personal care to its patients.

“Caregiver” refers to any person in a Long Term Care Institution, Hospital, Acute Care facility or other Health Care facility who is appropriately trained to provide care or services to the patient or the chair used by the patient and may include the patient’s family members or guardian.

“Seat Tilt” refers to changing the angle of the chair’s seat with respect to the chair frame (or ground) without changing the angle between the back and the seat.

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

“Footrest Elevation” (and Legrest elevation) refers to changing the angle between the chair’s footrest (and legrest) and the chair’s seat.

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

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

“Safety Requirements” are the important information contained in Section 1 which must be followed to ensure the safe operation of the chair for the resident, caregivers, and third parties.

## **2.2 Shipping and Storage Specifications**

BRODA chairs should be shipped and stored in an upright condition 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 minus 20 degrees Celsius and plus 40 degrees Celsius. BRODA chairs should not be used until they are between 0 degrees Celsius and 30 degrees Celsius. BRODA chairs should be kept in a clean, dry environment.

Upon receipt, we recommend that the shipping carton 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. The shipping carton should be opened immediately and the chair examined for concealed shipping damage. If the chair appears to be damaged, a concealed bad order report should be immediately filed with the transportation company.

### **3.0 CAREGIVER MANAGEMENT**

BRODA Seating's unique and innovative chairs provide the optimum in re-positioning functions and mobility. However, BRODA's products were designed to be recommended by professional caregivers. The maximum benefit to the patient using this chair will be achieved with the advice and assistance of their caregivers.

The professional caregiver responsible for the patients' seating will add any additional patient specific instructions required for the safe and correct operation of the chair with a specific patient to Section 7 at the end of this manual. These additional patient specific instructions shall be considered as important additions to the Safety Requirements in Section 1.

At the customer's request, the initial basic training of the patient's caregiver(s) in the operation of the chair will be provided by the local BRODA representative who supplies the chair. The caregiver(s) must adhere to the Safety Requirements at all times to ensure the safety of the patient, caregivers, and third parties.

The customer will maintain a list of caregivers who have read this manual and are authorized by them to operate and move the chair.

BRODA assumes no liability for damage, injury or accidents caused by careless, negligent, incorrect, or unauthorized operation or movement of its chairs.

## 4.0 LABELS

BRODA uses certain labels to assist caregivers with identifying items that permit the operation of the chair's functions as well as identifying specific safety instructions to the user.

Recline Label (Blue)



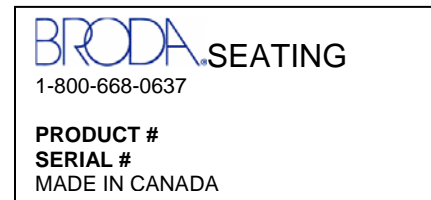
Tilt Label (Tan)



Manufacturer's Label (White)



Serial Number Label (Grey)



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

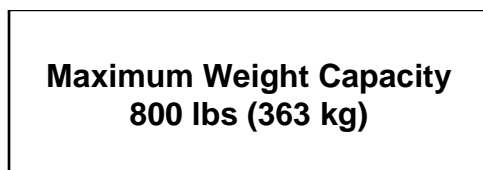
Emergency Brake (Hand and Foot Actuated) (Grey)



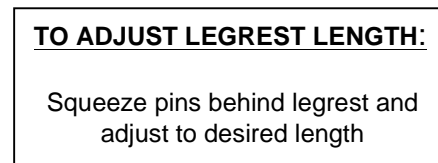
Patent Label for Emergency Brake (White)



Weight Capacity Warning Label (White)



Legrest Adjustment Label (White)



Arm Width Adjustment Label (White)

**TO ADJUST  
ARM WIDTH:**  
  
Loosen hand  
wheels  
  
Press buttons while  
rotating arm to  
desired position

Operating Label (White)

**READ MANUAL THOROUGHLY  
BEFORE OPERATING CHAIR**

Operating Caution Label (Red)

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

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

Warning Label for Cylinder Configuration Card

**DO NOT  
REMOVE**

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

Emergency Brake Label (White)

Emergency  
brake will stop  
chair abruptly

## 5.0 Chair 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	+8°	-14°	∞	+ = 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	+2°	-65°	∞	+ = 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	110°	17°	∞	
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

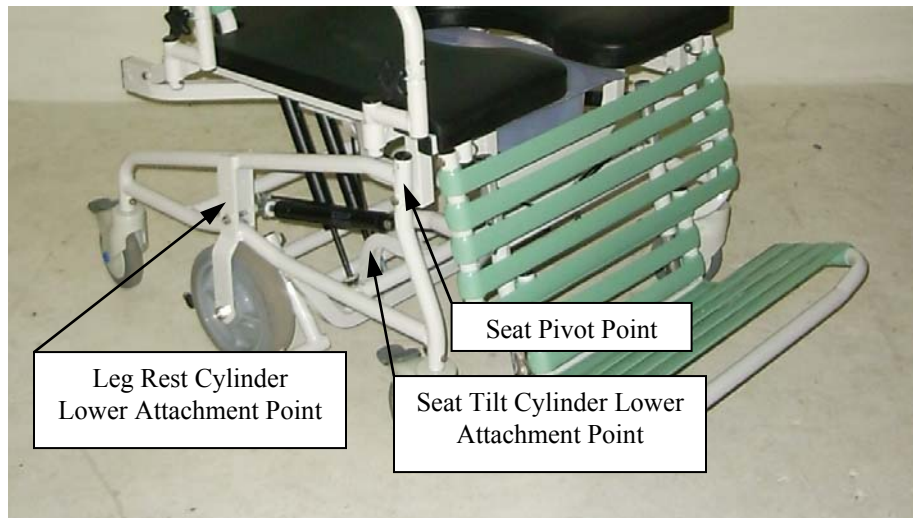
## 6.1 Seat Height Adjustment

The seat height of the BARI 385 may be set at either 23” or 21”. To perform this adjustment 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/Right)

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.



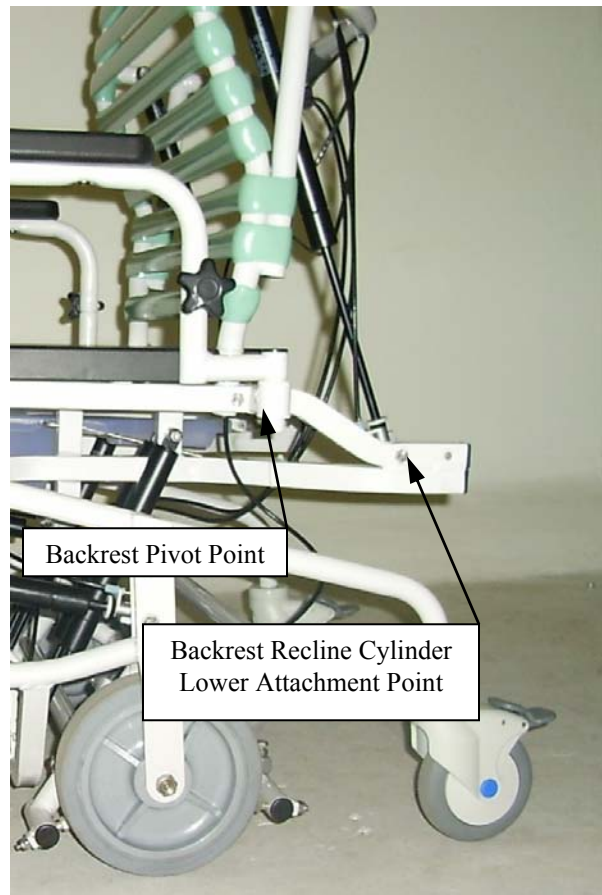
## 6.2 Seat Depth Adjustment

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

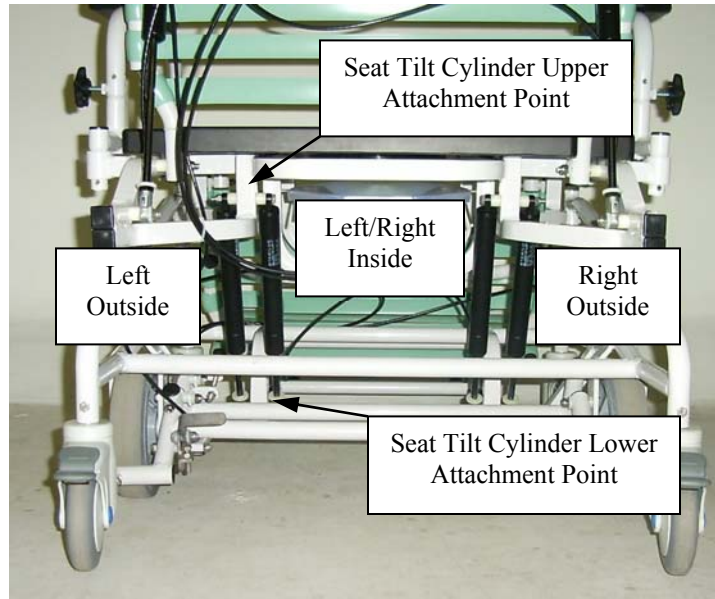


### 6.3 Seat Tilt Lifting Capacity Adjustment

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.



CYLINDER MOUNTING POSITIONS		LEFT OUTSIDE	LEFT INSIDE	RIGHT INSIDE	RIGHT OSIDE
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
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 = PAB 7, 600N = PAB 8, 800N = PAB 9

**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.**

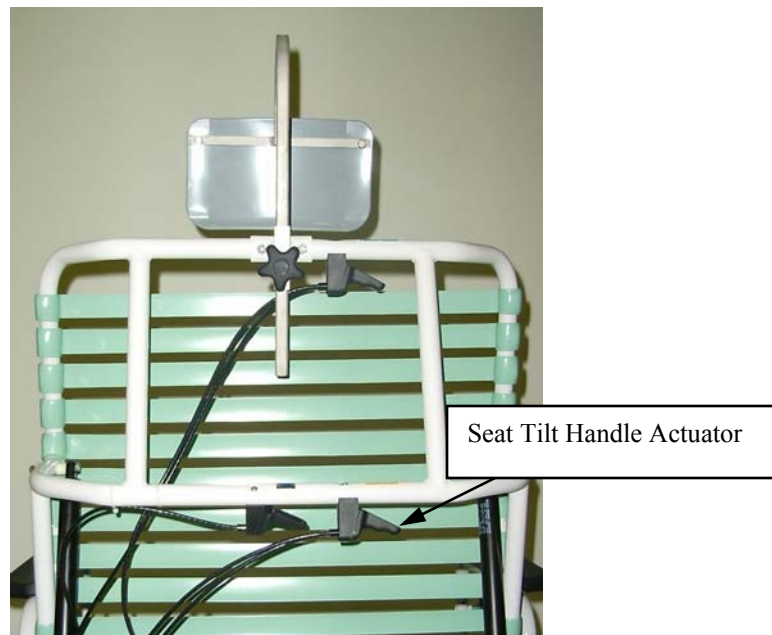
## 6.4 Seat Tilt Angle Adjustment

As with many other BRODA products, the Seat Tilt Angle can be increased or decreased on the BARI 385 by respectively pushing down or pulling up on the backrest cross member while activating the Seat Tilt Handle Actuator. The BARI 385 has posterior tilt of 14 degrees and anterior tilt of 18 degrees.

There are, however, several cautionary notes to make regarding the BARI 385 seat tilt. 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. **Furthermore, caution should be exercised when activating the Seat Tilt Handle Actuator to decrease 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, since the seat may come out of tilt faster than expected.**

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.



## 6.5 Backrest Recline Angle Adjustment

As with many other BRODA products the Backrest Recline Angle can be increased or decreased on the BARI 385 by respectively pulling down or pulling up on the backrest while activating the Backrest Recline Handle Actuator. The BARI 385 has a backrest recline angle of 65 degrees.

There are, however, several notes to make regarding the BARI 385 backrest recline. Since the BARI 385 is intended for use with heavier occupants, the lifting force of the counterbalancing backrest recline cylinders have been selected appropriately. This means that the backrest recline cylinders may provide so much lifting force that the backrest recline angle may not be easily increased if the chair is unoccupied or not occupied by an appropriately heavy person. If difficulty is encountered while either increasing or decreasing the backrest recline angle the caster wheel locks and the middle wheel brake lock should be activated to keep the chair stationary. By doing so the operator will be able to push or pull the backrest with greater force and in the appropriate direction without causing the entire chair to move.



## 6.6 Leg Rest Elevation Adjustment

As with many other BRODA products the Leg Rest Elevation can be increased or decreased on the BARI 385 by respectively pulling up or pushing down on the leg rest while activating the Leg Rest Elevation Handle Actuator.

There are, however, several notes to make regarding the BARI 385 leg rest elevation. Since the BARI 385 is intended for use with heavier occupants, the lifting force of the counterbalancing leg rest elevation cylinders have been selected appropriately. This means that the leg rest elevation cylinders may provide so much lifting force that the leg rest elevation may not be easily decreased if the chair is unoccupied or not occupied by an appropriately heavy person. If difficulty is encountered while decreasing the leg rest elevation, the operator may choose to increase the leg rest length to gain a mechanical advantage offered by an outstretched leg rest to compress the leg rest elevation cylinders. The elevating force offered by the leg rest will decrease significantly as the leg rest is returned to an upright position.



## 6.7 Leg Rest Length Adjustment

The BARI 385 Leg Rest Length Adjustment is achieved by two spring-loaded detent plungers which engage a series of holes in two parallel tubes to index and detain the leg rest length. The Leg Rest Length Adjustment Handles are located behind the upper leg rest and have been offset to the same side as the Leg Rest Elevation Handle Actuator to facilitate their ease of use.

To adjust the leg rest length, the Leg Rest Length Adjustment Handles should be drawn together to disengage the detent plungers and allow the lower leg rest assembly to slide freely. Do not place fingers near the top of the detent plungers for it could create pinching. The leg rest length can then be adjusted to the required length and the Leg Rest Length Adjustment Handles released so that the detent plungers engage the appropriate hole for the desired leg rest length. Always ensure that both detent plungers are engaged in the appropriate indexing hole by attempting to move the lower leg rest assembly up and down. Loading the leg rest without having the detent plungers engaged in their holes will damage the leg rest sliding mechanism.

There are few suggestions to note to facilitate the ease of use of the leg rest length adjustment. Should significant resistance be encountered while attempting to activate the Leg Rest Length Adjustment Handles, remove any load being applied to the footrest and leg rest that may be causing the indexing holes to be tightly pushed against the detent plungers and preventing them from sliding out. By relieving the mechanism of any loads the plungers should be free to slide. If during the course of adjusting the leg rest length, the lower leg rest assembly should bind do not force it to move. Applying any excessive force will only cause the binding to worsen and may permanently damage the sliding mechanism. Simply remove any load being applied to the leg rest and hold the lower leg rest assembly in the middle and move it from side to side while pushing the leg rest sliders up to dislodge them. Holding the lower leg rest assembly in the middle ensures that the leg rest is balanced and helps prevent the mechanism from binding.



## 6.8 Armrest Width and Fore-Aft Position Adjustment

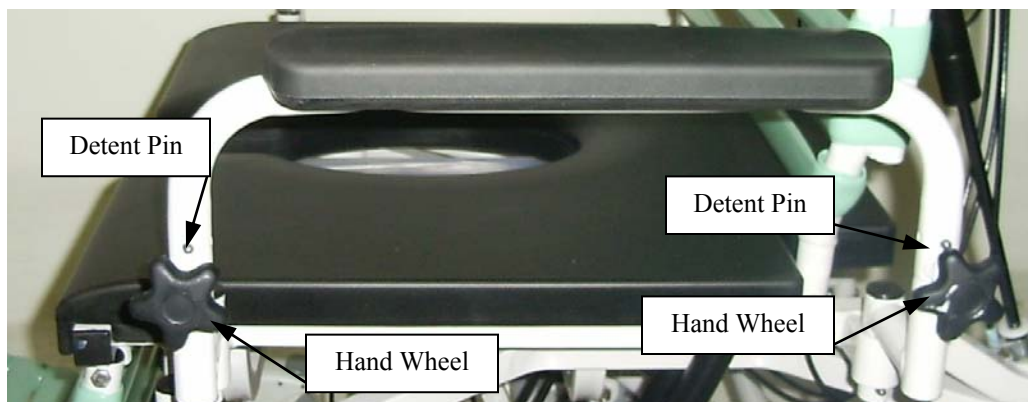
Unique to the BARI 385 is the ability for the armrests to be positioned front-to-back and side-to-side. This ability enables the effective seat width to be increase or decreased to accommodate wide occupants while facilitating passage through standard size doorways and also allows for comfortable leg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

Three indexed armrest positions are provided. To move the armrest from one position to another:

- 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

There are several operational suggestions that should be noted. 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.





Narrow-Forward



Wide-Middle



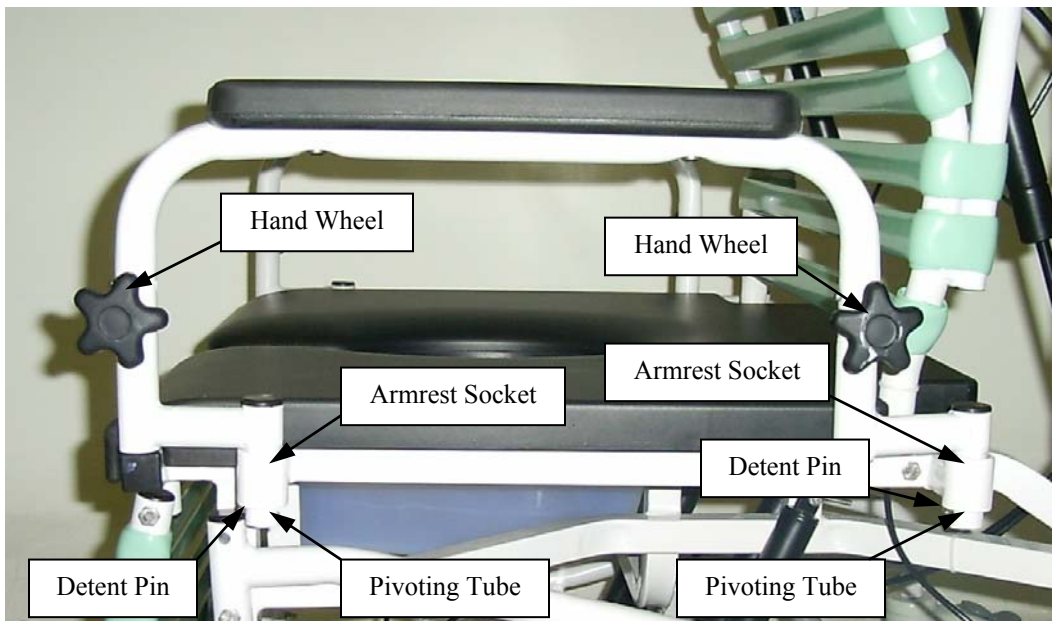
Narrow-Rearward

## 6.9 Armrest Installation and Removal

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

To remove the armrests, loosen both front and rear Hand Wheels, and then simultaneously depress both front and rear Detent Pins, located just underneath the Armrest Sockets, while pulling the armrest assembly upwards. To install the armrests, loosen both the front and rear Hand Wheels, and then align the front and rear Pivoting Tubes with the Armrest Sockets while simultaneously depressing both front and rear Detent Pins, this will allow the armrest assembly to fall into place. Ensure that both Detent Pins are protruding from the underside of the Armrest Sockets and retighten both front and rear Hand Wheels.

There are several operational hints that should be noted. 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.

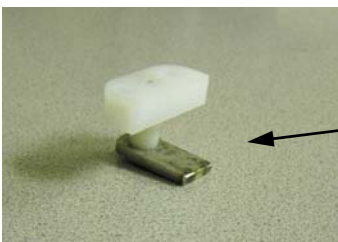


## 6.10 Seat Installation and Removal

The foam seat on the BARI 385 can be easily installed or removed.

To remove the seat pad, unlock the Locating Bosses under the seat by swiveling the tab away from the frame, in order to release the seat from the frame. Simply pull it up and away from frame. To install the seat, place it on the seat frame and align the sides of the seat with the sides of the seat frame. When the seat pad and seat frame are correctly aligned the seat pad will drop into place with all four Locating Bosses engaging the seat frame components. Visually confirm that the bottom surface of the seat is resting flat on the top surface of seat frame. The engagement of the Locating Bosses with the seat frame is what keeps the seat pad from sliding, so it is critical that the seat pad is correctly mated with the seat frame. Lock the Locating Bosses by swiveling the tab so that it is directly under the frame. This way the seat cannot be lifted up.

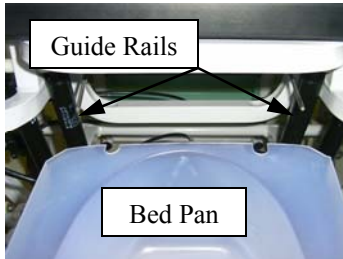
Ensure the seat is properly attached to the frame before the chair is occupied.



New Locating Boss Lock (Tab)  
(not shown on seat above)

## 6.11 Bed Pan Installation

The following figures illustrate the steps needed to install the bed pan on the BARI 385.



Align the Bed Pan with the metal Guide Rails.



Rest the front of the Bed Pan on the metal Guide Rails.



Continue to push the Bed Pan underneath the seat.



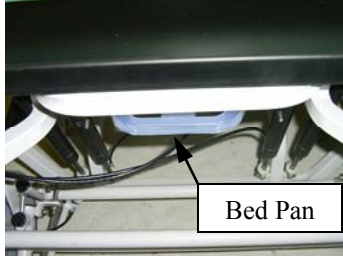
When the Bed Pan is in position it will drop and lock in place



Confirm that the Bed Pan is locked. Installation is complete.

## 6.12 Bed Pan Removal

The following figures illustrate the steps needed to remove the bed pan on the BARI 385.



Locate the rear of the Bed Pan at the back of the seat.



Lift the rear of the Bed Pan up by at least ½” to unlock it.



Pull back on the Bed Pan and slide it out from under the seat.



Grip the Bed Pan handle and continue to slide it back.



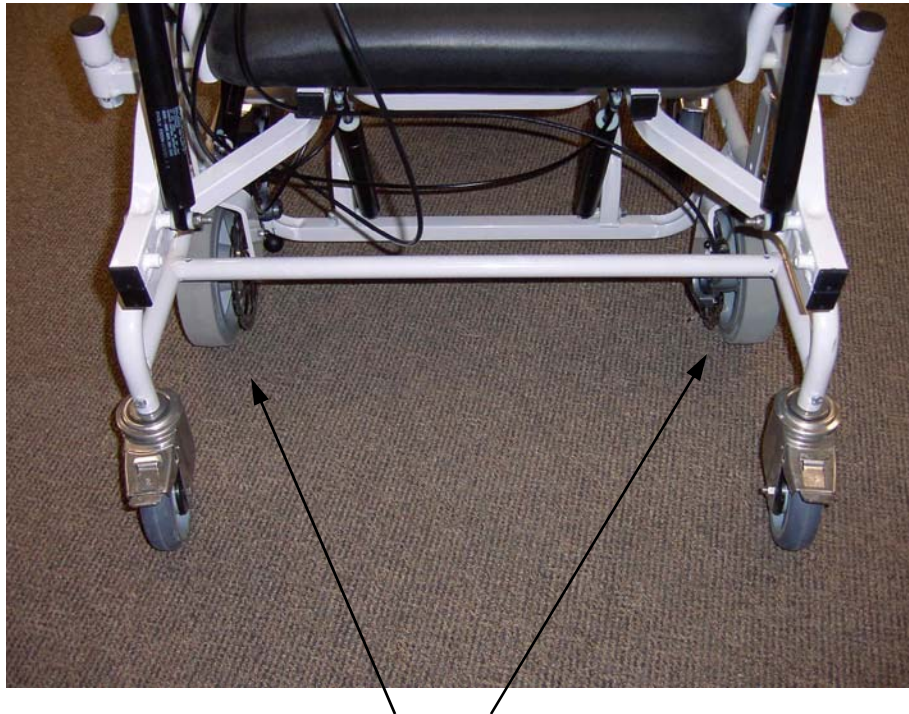
Slide it back until it is clear of the seat. Removal is complete.

## 6.13 Middle Wheel Brake Lock Engagement and Disengagement

The Bari 385 has an emergency brake to lock the middle 8" wheels. The cable handle triggers the disk brakes to lock the wheels into place.

To lock the wheels, squeeze the cable handle. The cable handle is located on the right vertical cross bar on the back of the chair. The speed at which the brake is locked is controlled with the handle. To keep the chair in the locked position, secure the handle to the frame with the clamp.

To unlock the brake, release the cable handle clamp from the frame.



8" middle wheel disk brakes



Cable handle clamp secured to frame to keep brakes locked

## **BRODA SEATING WARRANTY**

BRODA provides a Three Year Warranty on the chair frame, and a One Year Warranty on all other components subject to the following conditions:

No warranty is provided on seat pads or cloth covers.

The chair frames are guaranteed for three years against structural defects or failure. All other parts (except seat pads and cloth covers) including but not limited to strapping, cushions, gas springs and attachments, casters, wheels, brakes and armrests are guaranteed for one year against defects in materials and workmanship based on normal institutional use. The guarantee does not cover malicious or deliberate damage or damage from misuse. The guarantee does not cover use of Broda chairs in a shower or pool, with the exception of the Broda Commode/Shower Chair.

Modifications to Broda products or the use of non-Broda supplied parts voids the warranty. This warranty does not cover shipping damage (see below).

BRODA will provide new or refurbished parts for installation by the owner at no cost following confirmation by the local BRODA Representative or the BRODA Head Office Customer Service Representative. On request, defective parts must be returned to the factory within thirty days of receipt of the replacement parts by the owner. If the defective parts are not returned to BRODA on request, the owner will bear the cost of the replacement parts on invoice from BRODA.

Warranty does not include on-site labor for the installation of warranty parts or warranty repairs. The owner may return to BRODA products for warranty replacement or repair by shipping items prepaid and insured to the factory. Warranty completed at the factory includes both materials and labor. Parts to be repaired or replaced at the discretion of BRODA. All returns to the factory require prior authorization from BRODA.

BRODA retains the right to make design and application changes without notice. All orders will be filled with BRODA's current models unless otherwise specified by the purchaser.

BRODA chairs are designed for patient mobility, positioning, and comfort in specialty seating, however, the application of BRODA products shall remain the responsibility of the purchaser or user. This warranty is not transferable.

### **RETURNS**

BRODA Seating will not accept any returns without a prior **Returned Goods Authorization Number**. Please contact our Head Office Customer Service Representative at 1-800-668-0637 for assistance. Returns must be insured when shipped.

### **DAMAGED FREIGHT**

#### **NOTIFY THE CARRIER OF ANY DAMAGE IMMEDIATELY**

It is the responsibility of the person receiving the goods to examine cartons and goods before accepting receipt. Note all damages on the bill of lading and file a claim if necessary. Notify the carrier of any concealed damaged within a maximum of 48 hours.

BRODA insures all products for intransit damage, failure to notify the carrier of intransit damage voids both the insurance and the BRODA warranty. If you require assistance, please contact our Head Office at 1-800-668-0637.

### **SALES TAX**

Most Broda products are G.S.T. Zero Rated and Exempt from Canadian Provincial Sales Tax. Purchasers may be required to check with their Provincial or State Tax Office for purchaser tax payment.