

Operating Manual



ClearPath Positioning



ClearPath Mobility

Register your warranty online at www.brodaseating.com

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.

Contents

FOREWORD	1
GENERAL INFORMATION	2
1 DEFINITIONS	3
2 SAFETY REQUIREMENTS	4
2.1 Training	4
2.2 Application	4
2.3 Shipping and Storage	4
2.4 Pre-Service Check	5
2.5 Hazards	5
2.5.1 Position of Chair - “Danger of Falling”	5
2.5.2 Position of Seat Tilt - “Danger of Tipping”	5
2.5.3 Location of Chair - “Danger of Tipping or Falling Objects”	5
2.5.4 Total Lock Wheel Brakes - “Danger of Falling”	5
2.5.5 Re-Positioning of Resident - “Danger of Clamping”	6
2.5.6 Unintended Movement - “Danger of Falling or Collision”	6
2.5.7 Resident Clothing - “Risk of Injury to Resident’s Skin”	6
2.5.8 Improper Restraint Use - “Risk of Serious Injury”	6
2.6 Improper Use	7
2.7 Cleaning	7
2.8 Maintenance	9
2.9 Resident Specific Instructions	10
3 OPERATION AND MOVEMENT	11
3.1 Seat Tilt	11
3.2 Back Recline (Optional)	11
3.3 Elevating Leg Rest (Optional)	12
3.4 Leg Rest Length Adjustment	12
3.5 Wings (Optional)	12
3.6 Armrest Height Adjustment	13
3.7 Armrest Depth Adjustment	13
3.8 Seat Depth Adjustment	14
3.9 Seat Height Adjustment	14
3.10 Casters	14
3.11 Back Recline Installation and Removal	15
3.12 Elevating Legrest Installation and Removal	16
3.13 Swing Away Legrest Hanger Installation and Removal	16
3.14 Accessories (Options)	17
4 INSPECTION AND FUNCTIONAL TESTING	18
Functional Testing	19
5 TECHNICAL INFORMATION	20
5.1 Specifications	20
5.2 Labels	22
5.3 BRODA Seating ClearPath Parts Schematic Drawing	23
6 COMMON TROUBLESHOOTING AND REPAIR	25
6.1 Troubleshooting for Gas Cylinders	25
7 WARRANTY	27



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.

After reading this manual, if you have any questions about the safe and effective operation of your BRODA chair or accessories contact your local BRODA representative or our Head Office Customer Service personnel for further assistance.

Head Office:

BRODA Seating

560 Bingemans Centre Drive

Kitchener, Ontario Canada N2B 3X9

Phone: (519) 746-8080 Toll Free Can/US: 1-800-668-0637

Fax: (519) 746-8616

E-mail: sales@brodaseating.com

URL: www.brodaseating.com www.seatingisbelieving.com

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 ClearPath™ model.

“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 bears 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 or 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 ClearPath is a 2 in 1 mobility and positioning chair designed to accommodate a wide spectrum of needs with adjustments that are performed at the factory or in the field.

The ClearPath is not to be used in the shower. The frame and components will rust, and will void the warranty.

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 -20°C and 40°C. BRODA chairs should not be used until they are between 0°C and 30°C.

BRODA chairs should be kept in a clean, dry environment. 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"

Immediately after a resident is transferred into a chair, 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.

On ClearPath models in which a legrest is included, we recommend that the resident's feet be correctly positioned on the footplate and slightly to fully elevated when applicable, 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 the 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;
- 2) a resident is being transferred (moved) into or out of the chair; and,
- 3) the chair is not being moved by a caregiver or being self propelled by the resident

It is important to note that if the brakes are applied while the resident is in the chair, that the caregiver does not leave the resident unattended, especially those residents who have the capability or tendency to move the chair and/or those who may be agitated. This could cause harm to the resident if they attempt to move the chair while the brakes are 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.
- 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 before operating the chair’s functions.

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.

Outdoor use is appropriate only under the strict supervision and full attention of a caregiver who is physically capable of preventing any unintended movement over any surfaces that are to be traveled on. We recommend that a second caregiver assist when the chair is moved over surfaces that could cause significant unintended movement.

2.5.7 Resident Clothing - “Risk of Injury to Resident’s Skin”

We recommend that residents only be seated while they are fully dressed in clothing that meets the needs of their specific condition. If after being fully dressed, a resident’s bare arms, legs, or body could still come into direct contact with the TPU seating surface (Thermoplastic Polyurethane) or vinyl pads, we recommend the use of a covering, such the BRODA terry cloth covered seat and/or back pad or a folded cloth bed sheet to prevent direct contact. Direct contact of bare skin on the uncovered seat and back surface over a period of time could cause moisture on the resident, and/or cause the skin to stick to the surface. Prior to the operation or movement of a chair with a covering, the caregiver must ensure any covering placed on the chair does not come into contact with any moving parts and is securely placed, so not to slip.

2.5.8 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. Physical restraints have been identified as a common cause of serious injury to residents while they are seated. We recommend that the primary caregiver responsible for seating first consider the re-positioning options available in the chair to reduce the risks of sliding, falling, or self-injury.

If a physical restraint is determined to be appropriate to prevent sliding or falling out of the chair, we recommend that the BRODA thigh belt be used. In all cases, it is the resident’s primary caregiver that must take responsibility for the safety of the resident if restraints are used.

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 0°C.
- 14) Using the chair as a shower or bathing chair.
- 15) 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.

Refer to the following guide for cleaning certain staining agents (Applies to the Permablok3® vinyl, as per the vinyl manufacturer's recommendations) The frame and components of the chair can be cleaned using the same procedure as the vinyl.

The steps below are also located in the Cleaning Guide found on the back of the Broda chair

Staining Agent

Cleaning Procedure

Eye Shadow / Mascara	Step 1
Grease / Suntan Lotion / Chocolate	Step 1
Blood / Bodily Fluids	Step 2
Red Lipstick	Step 2
Oil Base Paint / Tar / Asphalt	Step 3
Other Tough Stains	Step 4 or 5*

Step 1: Remove excess spill with a damp cloth. Clean with a 1:1 mix of Ivory® liquid and water. Rinse with clean water and dry.

Step 2: Use a straight application of concentrated cleaners such as Formula 409® or Fantastik® Spray Cleaner. Then wipe with a clean cloth. If using a hospital grade cleaner, follow the diluting instructions on the label.

Step 3: Use a 1:1 mix of ammonia and water or a 1:4 mix of bleach and water. Rinse with clean water and dry.

Step 4: Use a straight application of naphtha (lighter fluid). Rinse thoroughly with clean water and pat surface dry.

Step 5: Use a 1:1 mix of isopropyl alcohol and water. If the stain persists, use straight alcohol. Rinse thoroughly with clean water and pat dry. If the stain remains, use a 1:1 mix of acetone and water. Rinse with clean water and pat surface dry.

***Note:** for cleaning that requires steps 4 or 5 – Use a soft cotton cloth saturated with the cleaning material and rub the stain in circles 10 times. Pat dry with another soft cotton cloth, and check results.

Ensure that the entire chair including removable and non removable parts is thoroughly cleaned.

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

BRODA chairs should not be cleaned with petroleum based cleaners. Any petroleum based products that come in contact with any vinyl should be removed as quickly as possible. Petroleum based products make vinyl brittle and will damage the cushions. Metal parts and cushions should be wiped completely dry after cleaning. Do not launder vinyl padding. Terry cloth seat and back covers can be laundered and tumble dried. Neoprene pads (side pads, calf and foot pad) should be laundered in cool water on gentle cycle with detergent such as Draft or Woolite per manufacturer's spec.. Lay Neoprene pads or drape to dry.

Do not allow the chair to air dry. Leaving the chair to air dry and not ensuring the entire chair is completely dry may cause the frame and components to rust. Solvents such as those found in spray lubricants should not be used on BRODA Chairs as they can damage moving parts.

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.

Formula 409® is a trademark of the Clorox Company.

Fantastik™® is a trademark of DowBrands, Inc.

Trademark of the Dow Chemical Company.

Ivory® is a trademark of Proctor and Gamble.

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.

In regular use, after the initial inspection and functional testing, the chair should be inspected and tested bimonthly. We recommend visually inspecting for signs of wear, damage, loose or missing fasteners, and other safety concerns. Periodic testing of chair functions is also necessary. If a breakage, defect, or operational problem is detected, the chair must be successfully repaired, inspected and tested for function before it is returned to service.

The chair should be inspected and tested as often as each use if the chair is used by:

- 1) Aggressive or agitated residents.
- 2) Residents who have involuntary movements.
- 3) Residents weighing over 220 lbs.
- 4) A facility with irregular or sloped surfaces.
- 5) Any unauthorized person.

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.

3 OPERATION AND MOVEMENT

Safety measures as described in Section 1 must be observed when operating the chair's functions or moving the chair. To reduce personal injury, 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.

Note: Product images may look slightly different than actual models.

3.1 Seat Tilt

Gas cylinders allow the seat to be tilted to any position from most upright to the lowest within its range. Use seat tilt to safely position the resident, redistribute pressure, increase comfort and assist with daily care activities.

To Activate the Seat Tilt

- Place your hand on the tilt bar to assist movement and squeeze the tilt handle with your other hand.
- Raise or lower the seat tilt until the desired angle is achieved.
- Release handle.



3.2 Back Recline (Optional)

The recline mechanism allows the back to be reclined to any position from the most upright to the lowest within its range. Use back recline to safely position the resident, redistribute pressure, increase comfort, and assist with daily care activities.

Always tilt slightly before reclining to prevent resident from sliding.

To Activate the Back Recline:

- Place your hand on the top bar to assist movement and squeeze the recline handle with your other hand.
- Raise or recline the back until the desired angle is achieved.
- Release handle.



3.3 Elevating Leg Rest (Optional)

Gas cylinders allow the leg rest to be positioned infinitely from horizontal to vertical. The leg rest is independently adjustable from the back recline.

To Elevate the Leg Rest:

- Hold leg rest to assist movement and squeeze the leg rest handle.
- Raise or lower the leg rest to the desired angle.
- Release handle.

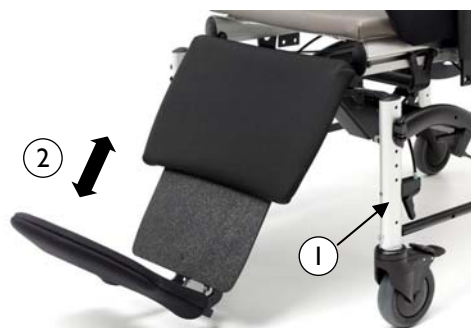


3.4 Leg Rest Length Adjustment

The ClearPath™ leg rest is length adjustable from 17” to 24” (from top of seat) to accommodate various residents.

To Adjust the Leg Rest Length

- Squeeze the leg rest length adjustment handle.
- Extend or retract the leg rest to the desired length.
- Release handle.



3.5 Wings (Optional)

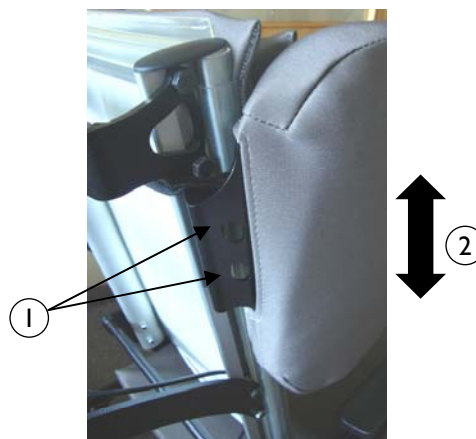
Wings support the Shoulder Bolsters which provide upper body lateral support to the resident.

To Adjust the Wing Height:

- Loosen (but do not remove) screws on back of wing using the appropriate wrench.
- Adjust wing vertically in T-slot to achieve desired position.
- Tighten screws.

To Remove Wing:

- Use the appropriate wrench to loosen screws. Do not remove screws completely.
- Lift wing to release from keyhole slot.



To Attach the Wing:

-Position wing along back cane, lining up keyhole slots with screws in back cane T-slot.

-Adjust wing to desired height.

-Tighten screws.

3.6 Armrest Height Adjustment

The armrests are height adjustable from 8" -12" or 11"-15" to accommodate various users.

To Adjust Armrest Height:

-Squeeze lever under armrest.

-Raise or lower armrest to desired position and release to allow armrest to lock into place

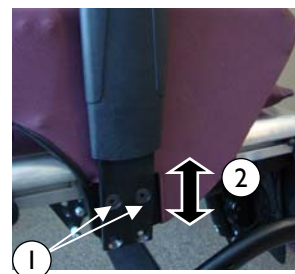
To Change Armrest Range of Height Adjustment:

-Remove armrest screws with the appropriate Allen wrench.

-Move armrest up or down to desired height range. Line up armrest, panel and block mount to T-slot in seat.

-Insert screws into arm mount through panel and block onto T-slot in seat and tighten.

Ensure screws are lined up to fastener plate holes in seat T-slot before tightening to prevent stripping fastener plate threads.



3.7 Armrest Depth Adjustment

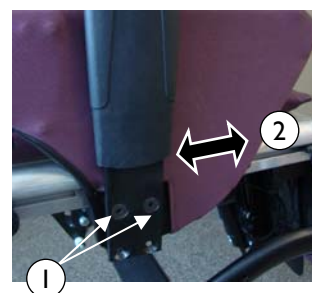
The armrests are depth adjustable to accommodate various residents as well as accommodate changes in seat depth.

To Adjust Armrest Depth:

-Loosen armrest screws with the appropriate Allen Wrench.

-Move arm panel along T-slot in seat to desired position.

-Tighten screws.



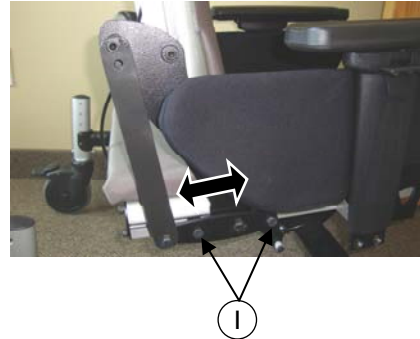
3.8 Seat Depth Adjustment

The seat depth is infinitely adjustable from 15" – 21".

-Loosen the 2 bolts per side on the recline bracket with the appropriate wrench.

-Move the back forward to the desired position.
Ensure there is equal distance on both sides between the back of the recline bracket and the back of the seat.

-Tighten bolts.



3.9 Seat Height Adjustment

The seat height is adjustable to accommodate various users.

The height adjusts from 13" -17" with shorter casters posts, and from 18" -21" with taller caster posts.

To Adjust Seat Height:

-Turn chair on its side to remove caster posts and screws.

-Re-position posts to desired height or install new posts (short or long) depending on desired seat height.

-For seat height range of 18" -21" (taller caster posts), lower support rails must be installed.

To install support rails, once caster posts have been installed to desired position, bolt the support rails from front to rear caster at the bottom of the caster post.



3.10 Casters

ClearPath Positioning models feature three 5" total lock casters and one 5" directional locking caster (different colour pedal) ClearPath Mobility models feature two 5" total lock casters and two 5" fixed locking casters. The tracking and fixed casters allow for easy maneuverability.

To Operate the Casters:

Step on/off the pedal to lock/unlock the caster.

Always ensure the brakes are unlocked when wheeling the chair.

For chairs with mag wheels, lock and unlock using the handbrakes.



3.11 Back Recline Installation and Removal

The ClearPath offers optional back recline for additional positioning.

To Install Back Recline:

- Remove the fixed recline bar from the back and seat bracket.
- Using the same fasteners, install the recline cylinder to the back and seat bracket with the actuator facing downward. The cable should be attached to the actuator.
- Tighten bolts.
- Attach cable handle to hole in top push bar on right side of back frame.
- Ensure all bolts are tightened.

To Remove Back Recline:

- Remove the recline cable handle from the top push bar.
- Remove the recline cylinder from the back and seat bracket.
- Using the same fasteners, attach the fixed recline bar to the back and seat bracket
- Ensure all bolts are tightened.



Fixed recline bar



Recline Cylinder

3.12 Elevating Legrest Installation and Removal

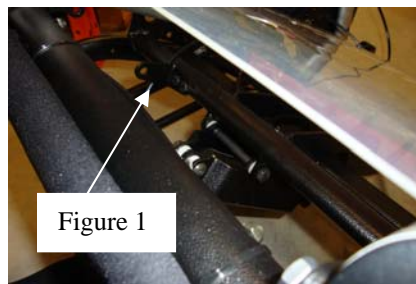
An elevating legrest can be installed on the ClearPath to accommodate leg and foot positioning needs. In order to install the legrest, the seat height must be set at 19" or higher, for ground clearance.

To Install Elevating Legrest:

- Bolt legrest L bracket to seat frame. (figure 1)
- Hang/bolt legrest through hole in seat rails. (figure 2)
- Connect cylinder to L bracket and legrest with bolts and spacers provided
- Mount the 2 legrest handles to the base frame. (figure 3)
- Route cables to frame and fasten using a cable tie, to prevent cables from hanging or protruding. Ensure routing of cables does not cause pinching or binding.

To Remove Elevating Legrest:

- Reverse instructions above (3.12).



3.13 Swing Away Legrest Hanger Installation and Removal

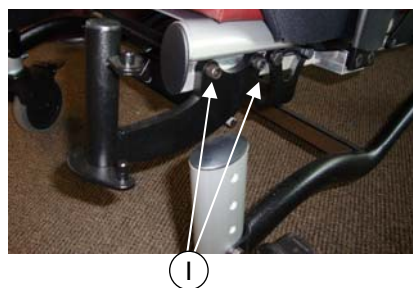
Swing away legrests can be installed for users who self propel, as the footrests can easily swing away for a foot on floor position.

To Install Swing Away Legrest Hangers:

- Remove end cap.
- Slide in hanger assembly to T-slot.
- Tighten bolts
- Re-install end cap.

To Remove Swing Away Legrest Hangers:

- Reverse instructions above (3.13).



3.14 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

Broda ClearPath Inspection/Maintenance Schedule*

Part	Initial Inspection	Inspect/Adjust Weekly	Inspect/Adjust Monthly	Inspect/Adjust Periodically	Inspect/Adjust Regularly
<p><u>Gas Cylinders:</u> <i>Check to ensure functions operated by cylinders are functioning properly: Tilt, recline, elevating legrest</i></p>	X		X		
<p><u>Cables and Handles:</u> <i>Cables connected to cylinders Cables completely release and handles return when released</i></p>	X	X			
<p><u>Upholstery:</u> <i>Check for tears</i></p>	X			X	
<p><u>Casters:</u> <i>Inspect swivel casters for proper tension by spinning caster. Caster should come to a gradual stop.</i></p> <p><i>Loosen or tighten bolts if caster wobbles or comes to an abrupt stop.</i></p> <p><i>Check to ensure casters are clean and free of dirt</i></p> <p><i>Check to ensure all caster brakes are functioning</i></p> <p><i>Check for loosening attachment between caster stem and housing.</i></p> <p>CAUTION: Casters should be checked regularly for wear or cracks and should be replaced.</p>	X	X			
<p><u>Armrests:</u> <i>Check to ensure height adjustment functions properly</i></p> <p><i>Ensure arms are secure, but easy to release where applicable</i></p>	X			X	
<p><u>Options/Accessories</u> <i>Inspect all Broda chair options and accessories to ensure proper working order</i></p>	X			X	

<p>Framework <i>Check for cracks along weld seam of tube, especially around load carrying bends e.g. backrest/seast bend; cracks or tears around welds, especially around load carrying tabs e.g. cylinder mounting tabs</i></p>	X				x
<p>Fasteners <i>Check for loose, missing or worn fasteners</i></p>					X

* Broda Chair Inspection/Maintenance Schedule is a guideline only
 Detection of any of the above issues should be reported to Broda. 1-800-668-0637.

Inspection

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

Broda recommends regular visual inspection for overall 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.

Broda recommends 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.

The visual inspection should be performed by the facility, or if in a private residence, by the individual responsible for the chair.

Functional Testing

Broda recommends 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.

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.

WARNING:

After any adjustments, repair or service, before use, make sure all attaching hardware is tightened securely. Otherwise injury or damage may result.

CAUTION:

DO NOT over tighten hardware as this could cause damage to the frame.

5 TECHNICAL INFORMATION

5.1 Specifications

Specifications Based on Standard 20" ClearPath Mobility

1. Seat Tilt: Up to 32° of seat tilt in all seat heights (infinitely adjustable)
2. Frame: Aluminum and 16 gauge powder coated steel
3. Seat/Back Surface: TPU Comfort Technology for pressure redistribution
4. Arms: Height and depth adjustable
Arms tilt with seat
5. Padding: Removable neckrest and side pads standard
The 34 ounce healthcare vinyl fabric covering is manufactured to meet the following requirements: DIN 75 200/DIN 53 438; MVSS 302, M2; CAL 117, and Wyzenbeck Heavy Duty Abrasion Test; has an antimicrobial, antibacterial, anti-stain and anti-static finish; Cold crack of -20°C. Polyurethane foam meets CAL 117.
6. Casters: 5" total lock front casters, 5" fixed locking rear casters
7. Back Length: 32"
8. Seat Depth: Adjustable 15" – 20" (17" standard)
9. Seat Height: Adjustable 13" – 21 (13" -17" with short caster posts, 18" -21" long caster posts) 14" standard
10. Seat Width: 20" (18" also standard)
11. Overall Width: 29"
12. Weight Capacity: 275 lbs.
13. Overall Weight: 66 lbs.

All dimensions are ± 0.5".

ClearPath Mobility features can be upgraded to become ClearPath Positioning:

(See ClearPath Positioning Specifications)

*Easily add:

Wings/Full Padding Package

Back Recline

Elevating Legrest

*Items can be upgraded individually

Change casters to 3, 5" total lock, 1, 5" directional lock

Change seat height to tall caster posts, 18" – 21", set at 20"

Specifications Based on Standard 20" ClearPath Positioning

1. Seat Tilt: Up to 32° of seat tilt in all seat heights (infinitely adjustable)
 2. Frame: Aluminum and 16 gauge powder coated steel
 3. Seat/Back Surface: TPU Comfort Technology for pressure redistribution
 4. Arms: Height and depth adjustable
Arms tilt with seat
 5. Padding: In addition to neckrest and side pads, removable height adjustable wings, shoulder bolsters, seat and back pad with removable terry covers, (Upgrade to vinyl seat and back covers optional)
The 34 ounce healthcare vinyl fabric covering is manufactured to meet the following requirements: DIN 75 200/DIN 53 438; MVSS 302, M2; CAL 117, and Wyzenbeck Heavy Duty Abrasion Test; has an antimicrobial, antibacterial, anti-stain and anti-static finish; Cold crack of -20°C. Polyurethane foam meets CAL 117.

Removable seat and back pads are covered with an 8 ounce soft vinyl which meets CAN2-162 flammability standard for hospital textiles. Polyurethane foam meets CAL 117. Removable, washable, pre-shrunk fitted cotton terry covers are provided for the seat and back pads. Terry covers provide absorption, and vapor and heat transfer.
 6. Casters: 5" total lock front casters, 5" fixed locking rear casters
 7. Back Length: 32"
 8. Seat Depth: Adjustable 15" – 20" (17" standard)
 9. Seat Height: Adjustable 13" – 21" (13" -17" with short caster posts, 18" -21" long caster posts) 20" standard
 10. Seat Width: 20" (18" also standard)
 11. Overall Width: 29"
 13. Weight Capacity: 275 lbs.
 14. Overall Weight: 100 lbs.
- All dimensions are ± 0.5".
14. Back Recline: Up to 45° of back recline (infinitely adjustable)
 15. Legrest: Elevating, length adjustable legrest with flip down footrest and calf pad. Legrest elevated independently of back recline) Length adjusts from 17" – 24" from top of seat

ClearPath Positioning features can be deducted to become ClearPath Mobility:
(See ClearPath Mobility Specifications)

*Easily remove:

Wings/Full Padding Package

Back Recline






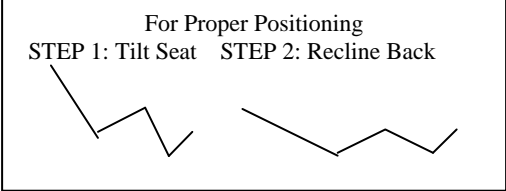

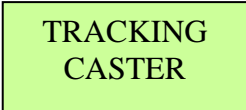
Elevating Legrest

Change casters to 2, 5" total lock, 2, 5" fixed locking rear

Change seat height to lower caster posts (if required for resident height for foot propulsion) (13" -17"adjustable, 14" standard)

5.2 Labels

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

<p style="text-align: center;">Manufacturer's Label (White)</p> 		<p style="text-align: center;">Serial Number Label (Grey)</p> 
<p style="text-align: center;">Recline Label (Blue) Certain Models</p> 	<p style="text-align: center;">Tilt Label (Tan) Certain Models</p> 	<p style="text-align: center;">Legrest Elevation Label (Silver) Certain Models</p> 
<p style="text-align: center;">Tilt and Recline Label (White) Certain Models</p> <p style="text-align: center;">For Proper Positioning STEP 1: Tilt Seat STEP 2: Recline Back</p> 		<p style="text-align: center;">Legrest Length Adjustment (Silver) Certain Models</p> 
<p style="text-align: center;">Tracking Caster (Green) Certain Models</p> 		

5.3 BRODA Seating ClearPath Parts Schematic Drawing

Contact Broda Seating 1-800-668-0637

BRODA Seating ClearPath Parts Schematic Legend

Contact Broda Seating 1-800-668-0637

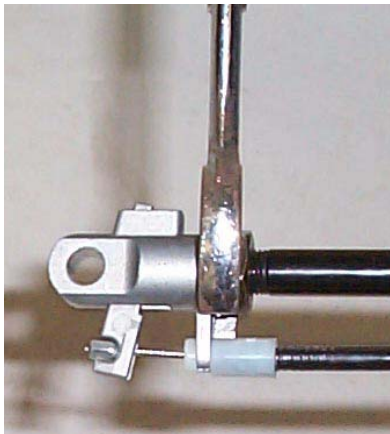
6 COMMON TROUBLESHOOTING AND REPAIR

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 Steps 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:	
<p>-Loosen the lock nut located on the stem of the gas cylinder next to the actuator (17mm or 11/16" wrench)</p> <p>-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)</p> <p>-Wind the stem in the correct direction one half turn.</p> <p>-Check the function of the cylinder and repeat the above step until the cylinder functions properly.</p> <p>-Tighten the lock nut loosened in the first step.</p> <p>-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.</p>	 <p>Note: Cylinder does not need to be removed from the chair to make this adjustment.</p>

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.



ClearPath Gas Cylinders – Tilt Function

Chair Width	Tilt Cylinder Configuration
16"	1200N = 1x 1200N
18"	1200N = 1 x 1200N
20"	1200N = 2 x 600N
22"	1800N = 1 x 1200N 1 x 600N
24"	2400N = 2 x 1200N

1 x 1200N = PAB 14 Cylinder, 1 x 600N = PAB 15 Cylinder

7 WARRANTY

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, TPU seat and back surface, 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. The decision to repair or replace parts is 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 48 hours of receipt.

BRODA insures all products for in transit damage, failure to notify the carrier of in transit damage voids both the insurance and the BRODA warranty. If you require assistance, 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.

Register your warranty at www.brodaseating.com