

ROC Chair

INSTRUCTION MANUAL

Rev 2 07/24/08

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Introduction

The **ROC Chair** is designed to offer a full array of features to the end user. All of the interior seating and positioning adjustments can be made without the use of tools. A single screwdriver can be used to make the remaining adjustments. Certain infrequent frame adjustments do require the use of additional wrenches. In addition, the chair lends itself to many special needs or custom applications.

The following instructions will give an introduction to the sequence and method for setting up the basic seating and positioning adjustments for the ROC Chair. For further information or technical assistance call:

ROC Wheels, Inc.
4135 Valley Commons Suite D
Bozeman, MT 59718
Phone: 406-556-8065

www.ROCwheels.org



ROC Chair

I. Standard Seating Adjustments

Seat Depth



There is one 7/16th bolt located under the sliding seat element. Loosen this knob and slide the seat forward or rear-ward to achieve the desired seating depth. No other item, including the seat cushion, needs to be loosened to make this adjustment.

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Foot Rest Position

Under the footrest plate at the front of the unit are three screws. Loosen these to rotate the footrest plate around the cross tube. Once the desired position is achieved, tighten these three screws securely to hold the position.



To position the footrest forward and back, remove the two screws in the top of the footrest plate, reposition the footrest and install the screws at the new position. Tighten screws securely.



Hip Adductors

Each hip adductor is adjusted by loosening the two knobs under the seat and at the rear of the unit. Once loosened slide the hip adductors outward or inward and position with the desired angle, then tighten the knobs securely to hold the desired position. This can be done without removing the seat cushion, although the flap at each side of the seat cushion may



need to be detached from the adductor plate during the adjustment. Place the Velcro under the flap tightly into the corner of the adductor bracket as shown.



Lap Belt

The lap belt slides forward and back on the seat side tubes. It is held in one of three positions by the notches in the seat plastic. Once the desired position is achieved, the tension on the lap belt will serve to hold it in place. The length of the belt is adjusted at each side and at the buckle. Adjust the length so the buckle is centered on the child when tight.



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Back Height



The height of the back is adjusted by loosening the single knob in the center of the back support. The back cushion does not need to be detached to make this adjustment. Slide the back support up or down to achieve the desired back height, then tighten the knob securely to hold the back support in place.

Lateral Supports

The lateral supports are held in place by the two knobs on either side of the back support, at the rear of the unit. Loosen these knobs and then position the lateral support to the desired height and lateral position. Tighten the knobs securely to hold the lateral supports in place.



Head Support



The head support can be adjusted forward and back and at the desired angle to fit the child. There are three knobs at the back of the head support, two on one side and one on the other. These must be loosened to adjust the head support. Place the head support in the desired position and tighten the side with one knob first. Then tighten the other two knobs securely to hold the head support in the desired position.

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Chest Harness

The chest harness is mounted to the back support with four screws through the harness straps. The adjustment of the harness takes place via the double “D” rings at the front of the harness. The harness straps can be adjusted once the child is in place and all the other adjustments are completed.



Safety Note: It is very important to show the caregiver and/or the parents how to quickly separate the harness in case of emergency. The harness is separated at the middle via the hook/loop attachment.

Abductor Block

The abductor block is attached over the seat cushion and through the groove at the



front of the adjustable seat plate. A hole may have to be installed through the cushion to attach the abductor block, once all other adjustments are complete. Tighten the abductor block securely with the knob provided.



Tray Position



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Slide the tray tubes into the receptacles under each armrest. Tightening the knob on the side of each armrest holds the forward and rearward position of the tray.

Seat Tilt Angle

The ROC Chair seat tilt angle can be adjusted from approximately 15 degrees forward to approximately 40 degrees rearward. To do this, grasp the handle bar firmly and press on the tilt bar pad with your foot to release the latch mechanism. Tilt the seat to the desired position and remove your foot from the tilt bar pad. The latch will spring into position to lock the seat at the desired angle.



Seat Back Recline Angle

The seat back can be adjusted in recline from 90 degrees to approximately 30 degrees reclined in 15 degree increments. This is done by gripping the handle bar with one hand and lifting the recline bar, at the back of the unit, with the other hand. Place the seat back in the desired recline position and then release the recline bar so it can spring into the locked position.



Note: For special or custom applications the seat back angle can be adjusted beyond the 30-degree angle of recline. It may be adjusted up to 180 degrees to accommodate certain special needs situations. See Section IV Custom Applications.



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Handle Bar

The handle bar can be adjusted up or down to find the most comfortable position for the caregiver and/or family member. Push in the button on the side of each handle bar to release it and then slide the handle bar up or down until the button snaps into the next adjustment hole. Be sure that the button on each side of the handlebar snaps into place.

Anti-Tip Bars

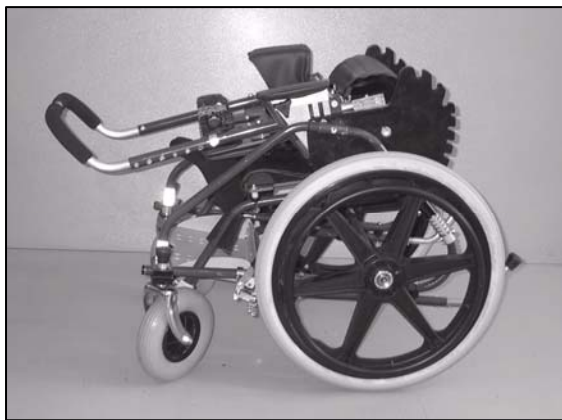
To adjust the anti-tip bars, locate the snap button on the bottom of the tube, push it in and rotate the anti-tip bar 180 degrees so it is facing down. These anti-tip bars should always be down when a child is in the chair. One exception may be when going up a stairway with the child in the chair, in which case the anti-tip bars can be placed in the up position so they will clear the stair treads.



II. Folding

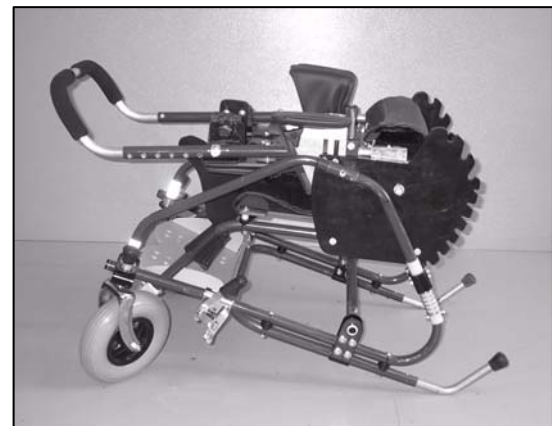
Folding the Seat Back

To fold the wheelchair seat-back, lift up the recline bar so it clears the notches in the side plates then rotate the seat back 90 degrees forward to where it rests on the seat as shown. This is the basic folded position. The tilt adjustment can be positioned to help make the chair more compact. See also "Removing the Rear Wheel" to achieve the smallest package possible.



Removing the Rear Wheels

To make the folded wheel chair small enough to fit into the



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trunk of a car or back of an SUV, the rear wheels can be removed. This is done by depressing the button in the middle of the ball lock pin at the hub of the rear wheel. With the button depressed pull the wheel straight out away from the wheelchair. Again, the tilt adjustment may need to be positioned to achieve the smallest package possible.

Note: When replacing the rear wheels it is important to rotate the ball lock pin until the button pops out. This indicates that the ball lock pin is actually engaged and locked into position. If this is not done, the rear wheel could come off during use. See comparison pictures below.



(button in)



(button out)

III. Frame Adjustments

Wheel Base Adjustment

The rear wheels can be adjusted forward and rearward on the frame of the wheelchair.

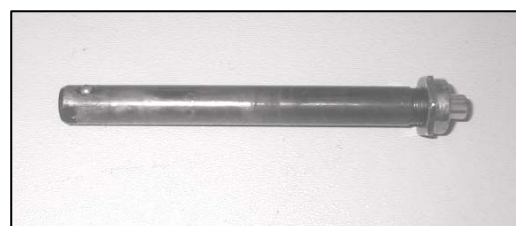


With a 7/16" socket loosen the four screws securing each of the axle mounting brackets. Slide the brackets forward or backward to achieve the desired position. Make sure the brackets are the same distance on each side of the frame. Tighten the screws just until the first thread of the screw comes through the nut. **Note: Do not over tighten these screws. This will deform the bracket.**

[Caution: Be sure not to move the wheels so far forward that the wheelchair becomes too unstable.]

Rear Wheel Ball Lock Pin

The ball lock pin can be adjusted for length by tightening or loosening the nut on the end of the ball lock pin. This is done to adjust the fit



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of the rear wheel to the axle.

Wheel Lock Tension



The wheel lock tension can be adjusted. Loosen the mounting screws, then slide the wheel lock towards the tire. Check the tension. When the desired tension is achieved, tighten the wheel lock mounting screws securely to hold the wheel lock in place.

IV. Custom Applications

General

The ROC wheelchair is easily adapted to many custom applications. Some have been addressed with kits that come from the factory. Other applications can be accomplished by using materials in the field.

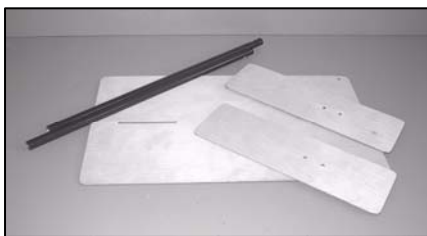
Custom Extensions for Lateral and Hip Adductors

The factory can supply custom lateral and hip adductor extensions which are easily added in the field with holes already drilled as shown. Any suitable material, available in the field, could also be adapted to the existing lateral or hip adductor to create this type of extension.



Supine Positioning Application

One very beneficial capability of the ROC wheelchair is that the back can recline to 180 degrees. This allows supine positioning of some special



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needs children. The example shown here is a simple kit provided by the factory. It is installed by removing the adjustable seat tray and footrest assembly. This is replaced with a flat board attached to two tubes, which slide into the seat base assembly. This system can be adjusted approximately 4-inches in length.

Supine Positioning Application (Con't.)

The handle bar is included with the kit and is specifically for this application. Also, a special head support bracket is used to allow greater range of head support positioning to accommodate the child. Foam can be easily attached to provide full body support as needed.

The seat back can be adjusted from 180 degrees up about 15-20 degrees, as shown.

Spica Applications

This same kit can be used for children who are in a temporary Spica cast system. The back would be positioned at the 90-degree position and the standard handle bar would be used. Once healing is complete and the cast removed, the standard seat system and footrest system can be placed back on the wheelchair.

Seating and Positioning

The seat base system and seat back system make it simple to do custom fit seating. In some cases, foam-in-place type seating or other seating options may be used for special needs situations.

