

User and Service Manual

Cruiser

Fixed-Tilt Wheelchair



READ INSTRUCTIONS BEFORE USING

SAVE THIS BOOK FOR FUTURE REFERENCE

 **Convaid**
by Etac

Customer Service Support

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Technical assistance or repair information hours are:

Monday - Friday, 6 a.m. to 4:30 p.m. PST

Before Calling:

Please fill in the following. Customer Service will be able to help you more quickly if the information indicated below is readily available.

Serial number of chair: _____

Model of chair: _____

Date purchased: _____

Notice:

The information contained in this document is subject to change without notice.

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Use only Convaid accessories and parts on Convaid products. Convaid parts are not interchangeable with other manufacturers' products. Replace any worn parts immediately.

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READ BEFORE USE

Read the user’s guide completely before use and fully understand its content. Familiarize yourself with the handling and functions of the product before use and practice them. Any caregiver that is going to operate this chair should also read the user’s guide in full.

You are responsible for the safety of the user. The safety of the user could be affected if you do not follow the instructions in this user’s guide. Nevertheless, not all possible circumstances and unpredictable situations can be covered by this user’s guide. Reason, care, and circumspection are not features of the product; they are required of persons who use the product. If instructions are not clear and further explanation is necessary, please contact your Convaid provider. If you do not follow all instructions and warnings, serious injury or damage to the chair may occur. The latest version of all instructions and product safety notices are available on the Convaid website (www.etac.us.com) and can be printed in larger sizes. Additional video instructions are also available for reference purposes.

Definition of Symbols


	Indicates the medical device manufacturer.		Indicates a medical device that need to be consulted with the instruction for user.
	Indicates the date when the medical device was manufactured.		This symbol is a mandatory marking for devices entering the European market to indicate conformity with the essential health and safety requirements set out in European Directives. The symbol may be accompanied by a four-digit identification number of the notified body. The vertical dimensions may not be less than 5 mm high.
	Indicates the Authorized representative in the European Community.		
	Indicates the manufacturer’s catalogue number so that the medical device can be identified.		
	Indicates the manufacturer’s serial number so that a specific medical device can be identified.		This symbol indicates maximum user’s weight.
	To indicate that caution is necessary when operating the device or control close to where the symbol is placed, or to indicate that the current situation needs operator awareness or operator action in order to avoid undesirable consequences.		To indicate the entity importing the medical device into the locale
			To indicate the entity distributing the medical device into the locale

	This symbol indicates a wheelchair which cannot be used in motor vehicle as vehicle seat. This wheelchair does not comply with WC19 (RESNAWC-4:2012 for ISO7176-19:2008) and cannot be used as a vehicle seat to transport the user in a vehicle.		This symbol indicates conformity with RESNA WC-4 Section 19 requirements.
	The symbol indicates a wheelchair which can be used in motor vehicle as vehicle seat. This wheelchair complies with WC19 (RESNAWC-4:2012 and ISO 7176-19:2008) and can be used as a vehicle seat to transport the user in a vehicle.		Medical Device
	This symbol indicates the position of an anchor point when using a 4-point tie down system (WTORS) during transit.		This symbol indicates the manufacturer's catalogue number so that the medical device can be identified.
	This symbol indicates correct lifting points for safe moving and handling.		To identify the country of manufacture of products.
	This symbol indicates potential finger entrapment.		Maximum washing temperature 60 °C (140 °F). Mild Process
			Do not bleach.
			Do not iron.
			Do not tumble dry.

CHOOSE THE RIGHT CHAIR & SAFETY OPTIONS

There are several options available to meet the needs of the wheelchair user. Make sure that your (and your health care provider's) choice of chair and other added options takes into account the user's comfort, positioning, physical limitations, and hazards that may be encountered during daily use.

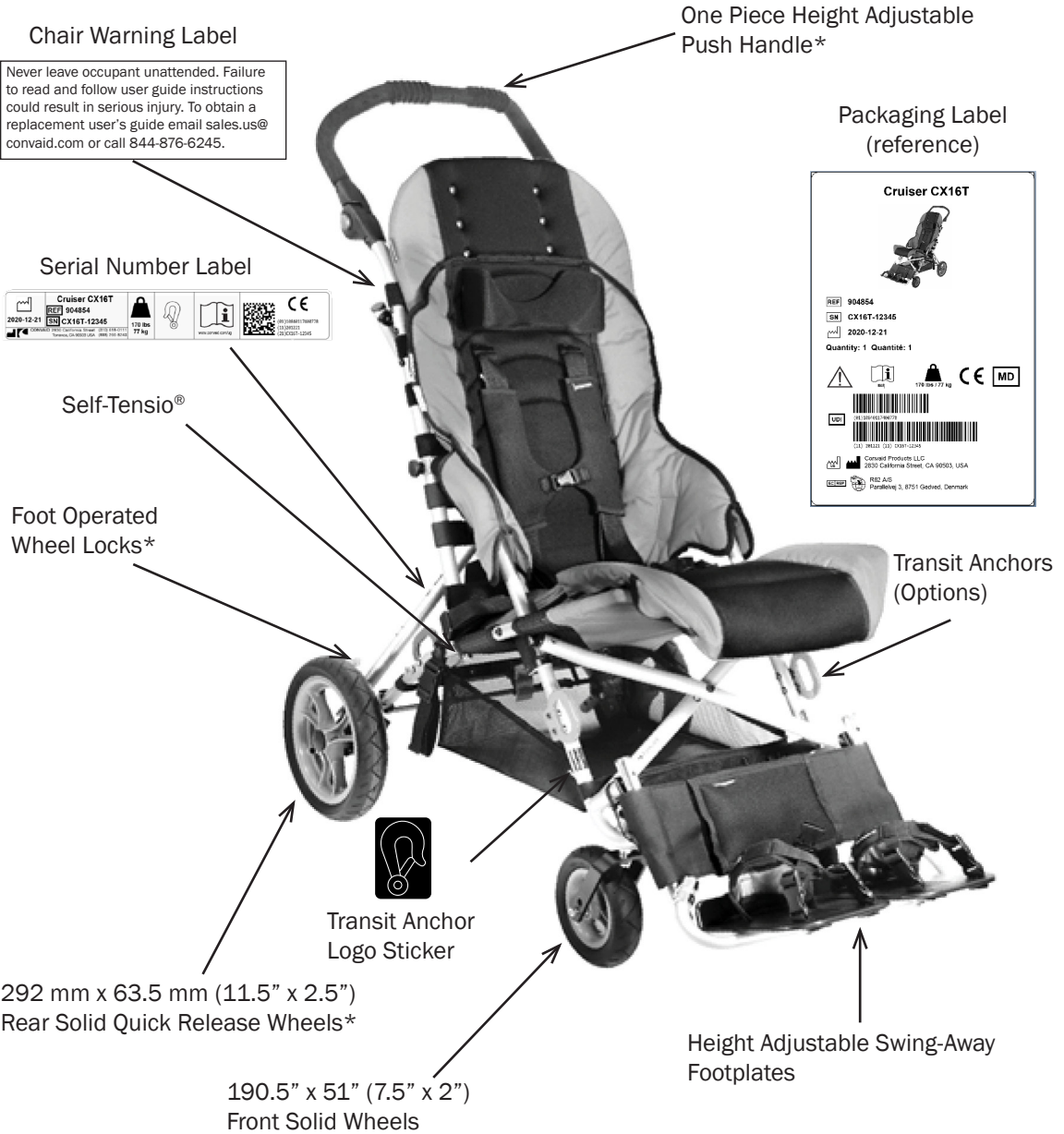
Operating the manual wheelchair outside of the recommendations provided by the manufacturer can lead to a dangerous situation.



The wheelchair is not suitable for jogging, running, skating or similar activities. Swiveling front wheels may wobble at higher speeds and can cause a sudden stop, and the wheelchair can tip over. Use the wheelchair only at regular walking speed. Under no circumstance should you let go of the push handle while pushing.

The durability of this product is five years when it is used with proper care and maintenance according to the user's guide.

Product Overview Fixed-Tilt Cruiser



*Sizes: 10, 12, 14 and 16 only

Cruiser Specifications (Millimeters)

Cruiser	CX10	CX12	CX14	CX16	CX18
Overall Length	1220	1120	1250	1320	1400
Overall Width	560	600	650	700	720
Overall Height	940	970	940	1020	970
Folded Length	1190	1220	1190	1350	1270
Folded Width	380	380	410	410	380
Folded Height	430	430	430	430	430
Weight of Chair	12.3 kg	12.3 kg	12.7 kg	14.5 kg	13.6 kg
Pivot Width	1100	1180	1150	1340	1410
Seat Angle	30°	30°	30°	30°	30°
Seat Depth	150-280	200-330	250-380	280-410	360-530
Seat Width	250	300	350	400	450
Seat to Floor	580	640	530	580	660
Seat Back Angle	85°/90°/95°	85°/90°/95°	85°/90°/95°	85°/90°/95°	85°/90°/95°
Seat Back Height	530	560	635	690	635
Seat to Footplate	130-530	130-635	100-560	100-560	200-580
Weight Capacity	34 kg	34 kg	45.5 kg	77 kg	114 kg
Transit Weight Capacity	30 kg	30 kg	45.5 kg	77 kg	77 kg
Push Handle Adjustment	710-1090	740-1170	740-1170	780-1220	N/A
Material (Frame)	Steel / Aluminum				
Material (Plastic Parts)	Fiber glass strengthened polyamide				
Material (Cushion)	Fire-resistance foam*				
Material (Fabrics)	Fire-resistance nylon, polyester*				

*Resistance to ignition of upholstered parts complies to BS-EN 1021-1 and -2

Cruiser Product Line



Cruiser



Cruiser 18



Cruiser Scout

General Cautions

Intended Use

The Convaid Cruiser is an attendant-propelled device, its intended function and use is to provide mobility to children to adults suffering from congenital or traumatic brain damage, degenerative or other physical handicaps that result in the lack of coordination or control, muscle weakness or paralysis.

Device Description


The Cruiser models are attendant propelled, manual wheelchairs. They are lightweight, compact, folding wheelchairs with tubular frames with a collapsible design for easy transport and stowage. The chairs are designed with smaller, rotating front casters for maneuverability with larger fixed wheels in the rear. The Cruiser chairs has options for positioning and support including but not limited to belts, harnesses, trays.

The Cruiser has an available transit option that is identical to the non-transit models with the exception of tie-down anchors and required labeling for use as seating in motor vehicles.

Suitable Environment

The chair is intended for both indoor and outdoor use. If the chair is used in the rain, the excess water should be wiped off with a soft cloth. If the chair is splashed with mud or corrosive substances like salt water or road salt, the chair should be washed clean with water, wiped dry and a hypoallergenic and biodegradable lubricant reapplied to the moving parts. The chair should never go into seawater, as it will corrode areas that cannot be washed clean. When going from outside to inside, clean any excess dirt or mud from the wheels to prevent soiling of inside environment.

In case of an adverse event occurred in relation to the device incident should be reported to your local dealer and national competent authority in a timely manner. The local dealer will forward information to manufacturer.



CAUTION: Prior to occupant use:

- The operator/caregiver must read and understand this manual prior to operating this equipment. If you are unable to understand any part of this manual, contact your supplier for assistance.
- Keep packaging material away from children. Plastic packaging presents danger of suffocation.
- Make sure that the chair operates properly. Repair any problems before use.

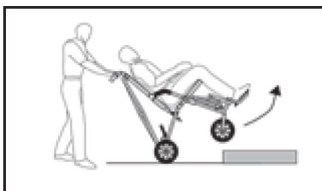


- Do not use the chair unless it has proper tire pressure (front 36 psi/rear 30 psi, 248kPa/200kPa, 2.5BAR/2.0BAR). Do not overinflate the tires. Failure to follow these instructions may cause the tire to explode and cause harm. Tire size and maximum pressure are listed on the wheel.
- Always verify that the quick release axles are locked so that the back wheels do not come off. You will hear a “click” when wheel locks into place.
- Be aware of newly created sharp edges.
- Frequently inspect the adjustments on the frame and the positioning accessories.
- Do not ignore minor malfunctions and maintain the chair in good operating condition.
- Inspect the wheel locks (brakes) regularly and adjust as needed.
- The Cruiser could lose its flame-resistant characteristics when using after-market seating or cushions.
- Do not use chair after occupant has outgrown it.



CAUTION: For occupant safety during use:

- The chair is only intended to carry one user at a time. Do not carry more than one user at a time.
- The weight capacity carried by the Cruiser chair must never exceed the total weight capacity of the chair (maximum occupant size plus any items carried).
- Always secure the user with belt first, before making any other adjustments.
- The seat belt should be used at all times.
- Do not strap the user too tight. Straps should not interfere with breathing or circulation.
- Do not leave the user unattended even when he/she is strapped in and the wheel locks are engaged.
- Always apply the wheel locks before letting go of the chair. Never remove or place the user without engaging the wheel locks.
- Do not use the footplates for weight support during exit and entry of the chair.
- Always watch for obstacles and avoid them as often as possible.
- CX-18 exceeds the maximum recommendation width. Use caution when entering/exiting small space.
- When going up a curb or step, face forward and tilt the chair back to lift the front wheels over the curb. Move forward and lift the rear wheels over the curb.





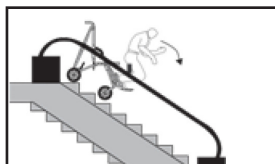
- When going down a curb, approach the curb backwards. Lower the rear wheels down the curb and continue backwards, taking the weight off the front wheels so they can be gently lowered.



- When transferring user to or from chair, apply foot wheel locks.



- Maintain control of the chair at all times while going up/down ramp.
- Avoid steep slopes, particularly with a heavy occupant. If in doubt, do not proceed unless a third party is present to help maintain control of chair.
- Do not attempt to take occupied chair up or down stairs, escalators, steep inclines, icy or slippery surfaces.



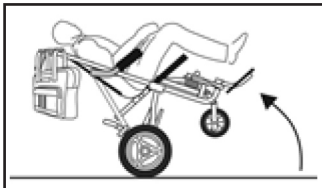
- Do not go up or down stairs without the assistance of another person or with the user in the chair. If devices such as ramps or elevators are available, please use them. If they are not available, then the chair should be carried over the obstacle by two people without the user in the chair.



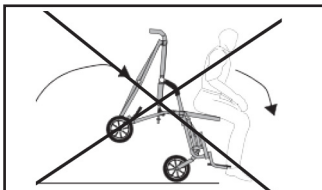
- Maintain control of the chair at all times while going up/down ramp. Avoid steep slopes, particularly with a heavy occupant. If in doubt, do not proceed unless a third party is present to help maintain control of chair.

**CAUTION:** To prevent tipping:

- The use of anti-tip tubes should be used if the user's weight is less than 50lbs (22.7kg)
- Do not hang items from the push handle to avoid tipping.



- Be sure that the user does not lean out of the chair too far when reaching for objects in front, to the side, or behind the chair. A shift in the center of gravity might cause the chair to tilt or tip over.
- If front edge of seat is at or forward of the point where tires touch the floor, avoid using front of seat tubes for support during entry or exit from chair to prevent tipping.

**CAUTION:** When using the chair in transit:

- If and whenever possible and feasible, the rider should transfer out of the chair and into an approved vehicle seat and passenger restraint system. However, if a transfer is not possible, use only designated chairs in a moving vehicle which contain the Wheelchair Tie-down and Occupant Restraint System (WTORS) following the requirements of SAE J2249. Follow tie-down harness manufacturer's instructions carefully and refer to Transit Section for specifics.
- Positioning belts should never be used as a safety restraint device in a motor vehicle when transporting the chair with an occupant. An additional WC19 (ISO 7176- 19) compliant automotive type seat belt is required when the chair is used in transport vehicles.
- A five-point harness should be used for occupant weight less than 51lb (23kg).
- All accessories must be removed from the chair and secured separately.

In case of an adverse event occurred in relation to the device incident should be reported to your local dealer and national competent authority in a timely manner. The local dealer will forward information to manufacturer.

Chair Set Up & Adjustment

Contents in the Box

List of items included in the box:

- Left and right footplates
- Accessories as ordered
- Cruiser as ordered
- Allen wrench (5/32")
- User's guide

Tools needed:

- 5/32" Allen wrench
- 3/8" Wrench
- 7/16" Wrench
- Phillips Screwdriver

How to Remove Chair from Box

1. Place box flat on the floor.
2. Verify that package is in good shape and that no damage has occurred during shipping.
3. Remove the chair base, seating module and accessories from the packaging material.
4. Check to make sure that your order is complete.

Preparing the Chair for Use

Once you have all components as ordered, the directions for use in this User Guide will guide you through the process of preparing the chair for use:

Convaid recommends the initial fitting, adjustments, and setup take place with the help of your Convaid Representative and/or Convaid Service Dealer. However, if the instructions contained in this manual are followed carefully, a caregiver or attendant will be able to set up and assemble the chair.

Unfolding the Chair



Fig. 1

Unfold the chair following the process below

- Lay chair flat on ground and unbuckle closure strap. **Fig. 2**
- Stand chair on front caster, grasp side of Push Handle and push down on Seat Tube. **Fig. 3**
- Press down firmly on seat tubes to ensure the chair is completely unfolded. **Fig. 4**
- Using your foot, push down on Lower Rear Lock Brace until it locks into a straight position. **Fig. 5**
- Press grey buttons on each side of Push Handle at the same time, and rotate Push Handle to desired height. **Figs. 6 & 7**
- Swing footplates down into position. **Figs. 8 & 9**

NOTE: One-Piece Push Handle will unfold as the chair opens.

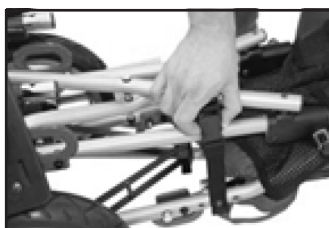


Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

Folding the Chair

- Swing footplates to the side. **Fig. 10 & 11**
- Press grey buttons on each side of Push Handle and rotate Push Handle down completely. **Figs. 12 & 13**
- Unlock Rear Lock Brace by kicking up on center of brace with foot. **Fig. 14**
- Grasp one side of Push Handle and pull up on seat fabric or seat tube with opposite hand. **Figs. 15 & 16**
- Lay chair back onto Push Handle. Push down on tubing above front tires until chair is folded. **Fig. 17**
- Buckle closure strap. **Fig. 18**

NOTE: Always properly secure the Cruiser in a safe location when transporting Cruiser as a cargo in vehicle.



Fig. 10



Fig. 11

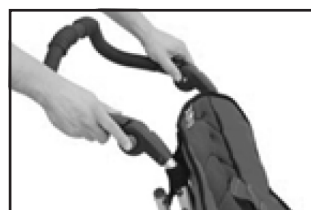


Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16

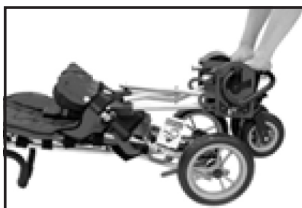


Fig. 17



Fig. 18

Lifting/Carrying the Chair

To Lift/Carry the Chair:

1. To safely lift or carry the chair, always use both hands.
2. With one hand hold the chair by the front x- brace bar. **Fig. 19**
3. With the other hand hold the chair by the back x-brace. **Fig. 20**



Fig. 19



Fig. 20

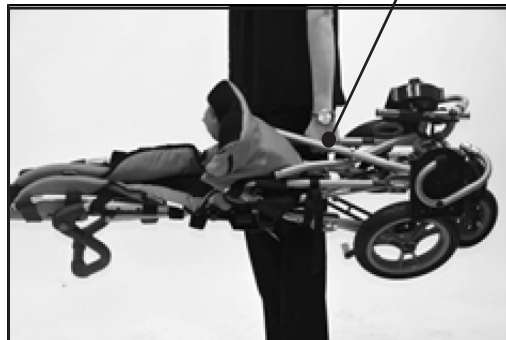


Fig. 21



CAUTION: Always secure the chair with the closure strap when transporting the chair.

Fitting Guide

Convaid's lightweight, folding chairs are designed to be more than just a convenient chair. Properly fitted, Convaid chairs will provide years of comfortable use. Order the correct size chair by first determining the user's height, weight and seating measurements. As your child grows, refer back to this Fitting Guide to adjust the dimensions of the chair.

Correct seating and positioning encourages good posture, which in turn aids circulation, breathing and digestion. Please take the time to properly adjust the chair to fit the user. If the user is not correctly positioned, check the accessories section of this user's guide to see if one or more of our accessories would help to facilitate posture or consult a physical therapist. Improper seating can cause problems. Please consult a physical therapist or doctor for additional guidance.

Seat Back Height

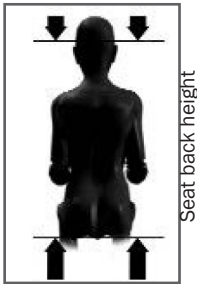


Fig. 22

Seat back height varies according to chair type and seat width. Headrest extensions are available when extra height is needed to support the head.

To determine the seat back height, measure from the seat to the top of the shoulder or the upper part of the head. **Fig. 22**

Seat Width



Fig. 23

Proper seat width enables the user to sit comfortably and can help prevent problems from developing. While user is seated on a flat surface, measure the distance from hip to hip. **Fig. 23**

The user should have enough room to prevent hips and thighs from rubbing against the frame. However, the chair should not be too wide or the user will slide around and posture could be affected. The seat width measurement for the Cruiser is taken from the inside of the arm rest tubes. **Fig. 23**

Seat Depth

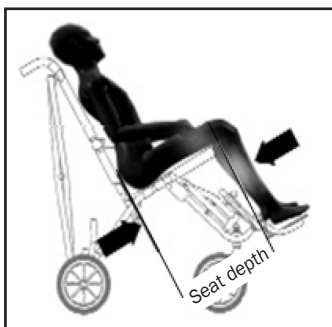


Fig. 24

Measure the distance from the most posterior portion of the buttocks to the back of the knee. Subtract from that measurement 1-2" (25-51mm) to allow adequate clearance between the seat and the back of the knee. **Fig. 24**

To change seat depth:

1. Partially fold the chair to relieve fabric tension. Undo the Velcro® back panel of the two-piece seat.
2. Grasp end of seat tube, press spring button and move seat tube until spring button relocates into the desired hole.
3. Repeat for other side of seat. **Fig. 25**



Fig. 25

Seat Depth Tube Replacement



Fig. 26

1. To change seat tubes or remove the seat tubes, press spring button. To install new seat tubes, press spring button and release when desired setting is achieved. Repeat for opposite side. **Figs. 26 & 27**
2. Reinstall fabric. Repeat for opposite side.



Fig. 27

NOTE: For Cruiser Planar model, skip step 2.

Attaching Support Strap for Seat Extension Tubes

1. Remove Seat Upholstery.
Figs. 28 & 29
2. Change and Install Seat Depth Tubes.
3. Press spring button and move Seat Depth Tube to desire setting. **Fig. 30**
4. Install Support Strap.
Note: Make sure rough, shiny side of strap is facing out. **Figs. 31 - 34**
5. Install Seat Upholstery. **Fig. 35**



Fig. 28



Fig. 29



Fig. 30



Fig. 31



Fig. 32



Fig. 33



Fig. 34



Fig. 35

FOR TEXTILENE UPHOLSTERY: Only Applicable to: CX 14-18

Make sure the seat depth tube inserts into the black web loop located on the inside corner of the textile upholstery. **Figs. 36 - 38**

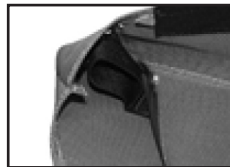


Fig. 36



Fig. 37

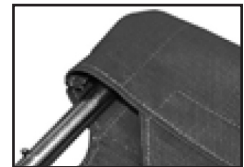


Fig. 38

Two-Piece Seat

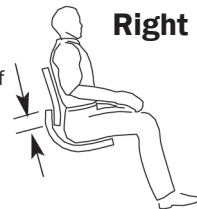
The lower seat panel is attached to the back panel with Velcro®. It is used to take up slack in the seat panel after seat depth adjustments have been made. **Fig. 39**

Excessive Velcro® overlap lifts seat fabric and pushes hips forward, creating poor posture and reducing effective seat depth.



Wrong

Correct Velcro® adjustment provides room for hips, and makes greater use of seat depth.



Right

Fig. 39

Wheels

Quick Release Wheels

TIRE REMOVAL

1. To remove, press down and hold the Rear Wheel Locking Pin. Grasp wheel and pull.
Figs. 40 & 41
2. No tools are required to remove tire. **Fig. 42**



Fig. 40

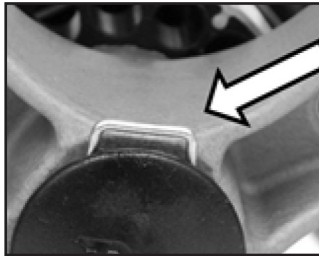


Fig. 41



Fig. 42



CAUTION: Ensure the wheels are installed properly. You will hear a “click” when wheel locks into place.

TIRE INSTALLATION

Slide wheel onto rear axle and push with ball of hand until it clicks into place. **Figs. 43 & 44**



Fig. 43



Fig. 44

Anti-Shimmy Adjustment





If the front wheels develop a shimmy, use a wrench to tighten the stem nut. Adjust the stem nut clockwise until the shimmy disappears. **Fig. 45**



Fig. 45

Locking and Unlocking

Convaid manufactures two types of wheel locks: hand operated and foot operated. Check to see which type of wheel locks is on your chair.

-  **CAUTION:** Proper care and maintenance must be taken to ensure proper function of the foot operated brakes.
-  **CAUTION:** When operating the wheel lock, do not use excessive force to engage the locks with your foot. Only light pressure is needed to fully engage the locks.
-  **CAUTION:** Teflon spray should be applied to brake components weekly to ensure proper operations.
-  **CAUTION:** Excessive force or poor maintenance will cause premature failure for foot operated brakes.

Foot Operated Wheel Locks

To Release Lock:

Lift upward on wheel lock. **Fig. 46**



Fig. 46

To Lock:

Press downward on wheel lock **Fig. 47**

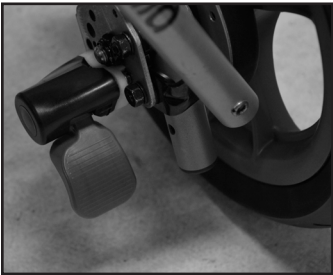


Fig. 47

For All Cruiser Size 18 and Cruisers with Scout Option

Toggle Wheel Locks

To Release Lock:

Pull up on red handle. **Fig. 48**



Fig. 48

To Lock:

Pull down on red handle. **Fig. 49**



Fig. 49



Fig. 50



CAUTION: Be careful not to get your fingers caught. **Fig. 50**

Attendant Hand Brake

Handbrakes help to maintain control of the chair when going down an incline. A moderate squeeze to the lever will slow the chair; a firm squeeze will stop the chair. **Fig. 51**



Fig. 51

Operating Instructions

Three-Point Positioning Belt

The three-point positioning belt is optional with every Convaid chair. Adjust the belt so the user stays securely in position. The quick-release buckle is attached to the crotch strap, and joins the crotch strap to both belts.

To Buckle:

Slide the metal clasps on the belt strap into the sides of the buckle. **Fig. 52**

To Release:

Press the grey button on the buckle and pull out the clasps. **Fig. 52**



Fig. 52



CAUTION: Be careful not to get your fingers caught with the clasps or hooks. **Fig. 53**



CAUTION: Always secure user with belt first, before making any other adjustments.

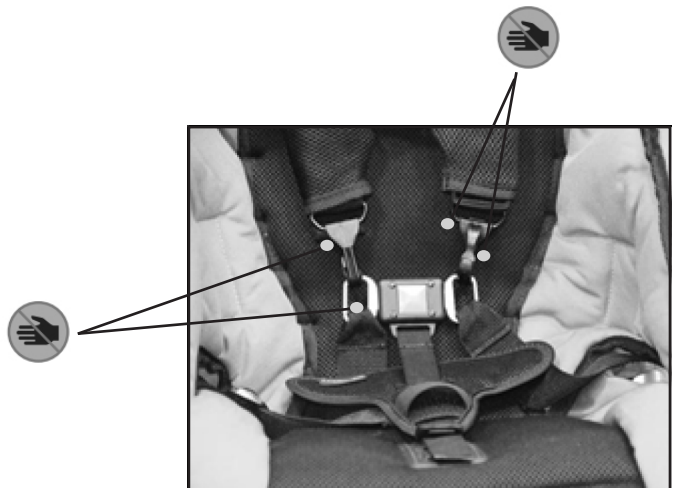


Fig. 53

Depth Adjustable Crotch Strap

The crotch strap can be adjusted by threading the strap through the desired slot. **Fig. 54**



Fig. 54

H-Harness with Padded Covers

H-harness shoulder straps help the user retain upright trunk position. To adjust, insert the bolt at the end of the strap through the grommet hole in the seat back. Grommet choice should be level with or higher than the top of the shoulders. Choose a hole that will keep the user secure without the strap rubbing against the face or neck. Secure the strap with the threaded knob. **Figs. 55 & 56**

Shoulder pads for the H-harness are standard. The pads come equipped with a snap buckle for easy attachment. **Fig. 58**



Fig. 55

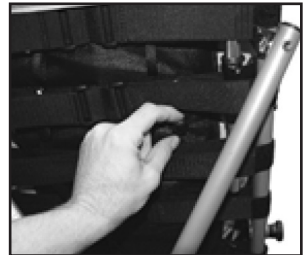


Fig. 56



WARNING: Keep fingers away from the adjustment holes.



Fig. 57

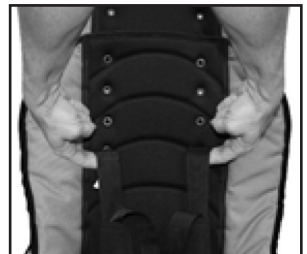


Fig. 58

Seat Back Angle Adjustment

Cruiser seat back angle can be adjusted in 5 degrees increments from 85~95 degrees relative to the seat base angle. These adjustments can be performed without hand tools by following the directions below. **Fig. 59**



CAUTION: Check knob regularly to ensure tightness as it may come loose during use.



CAUTION: Remove user prior to adjusting the seat back angle

Turn knob on inner seat back tube counter-clockwise to fully remove from J-bolt. **Fig. 60**

Keep track of the all hardware position (coved washers, Seatbelt brackets and closure straps) for re-assembly. **Fig. 60**

1. Remove J-bolt from seat tube and catch all hardware that may fall out in the process.
2. Install J-bolt into desire seat back angle position with proper hardware. **Figs. 61 & 63**
3. Reinstall all hardware (coved washers, seatbelt brackets and closure straps) to proper position. **Fig. 60**
4. Insert the head of J-bolts into unused remaining holes to lock bolt in place. **Figs. 61 & 63**
5. Reinstall knob and apply blue Loctite onto the treads of the J-bolt and hand tighten knob. **Fig. 62**
6. Repeat same steps above for the other seat back tube and both seat back tubes must be set to the same angle.

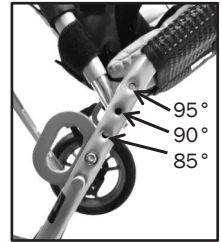


Fig. 59

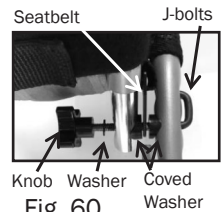


Fig. 60

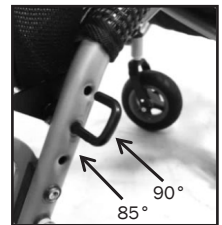


Fig. 61



Fig. 62

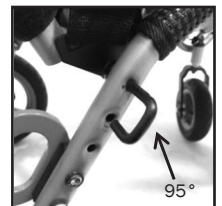


Fig. 63

CX-18 Seat Back Angle Adjustment



Fig. 64

1. Turn knob on inner seat back tube counter-clockwise to fully remove from J-bolt.
2. Remove J-bolt from seat tube and catch all hardware that may fall out in the process.
3. Install J-bolt into desire seat back angle position with proper hardware. **Fig. 64**
4. Leave the J-bolt head hanging downwards outside of the tube. **Fig 64**
5. Reinstall knob and apply blue Loctite onto the treads of the J-bolt and hand tighten knob.

Footplate Height Adjustment

Seat-to-footplate height is measured from the back of the knee to the bottom of the heel. Feet or heels should rest comfortably on top of footplate. **Fig. 65**

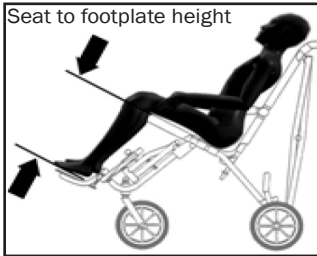


Fig. 65



Fig. 66

All Convaid footplates are height adjustable. Footplates swing away for access or folding. Pull on ring to remove detent pin holding footplate in place. Move footplate up or down, realign holes and install detent pin through holes in tube. **Fig. 66**

Additional Footplate Height Adjustment

In the event that the footplate minimum height adjustment described above is inadequate, additional adjustments can be made.

1. Pull out detent pin and remove the footplate extension tube from the frame. **Fig. 67**
2. Press the spring button, then pull the foot plate assembly apart. **Fig. 68**
3. Insert the footplate into the opposite end of the footplate extension and reassemble. **Fig. 69**
4. Using an Allen wrench (included), remove both bolts from the housing bracket on the frame. Flip the bracket upside down and replace bolts. **Figs. 70 & 71**
5. Return the footplate extension tube to the housing bracket and secure with detent pin. **Fig. 72**



Fig. 67



Fig. 68



Fig. 69



Fig. 70



Fig. 71



Fig. 72



CAUTION: Keep fingers away from adjustment holes

Fig. 73

Angle Adjustable Footplates

Angle adjustable footplates can be moved fore and aft, sideways, and rotated vertically and horizontally. To adjust the angle, loosen the bolts on the footplate and move to desired position. Retighten the bolts. **Fig.74-79**



Fig. 75

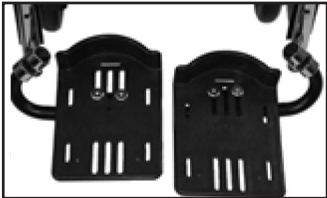


Fig. 76



Fig. 77



Fig. 78



Fig. 74



CAUTION: Keep fingers away from slots.

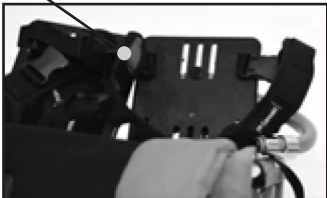


Fig. 79

Foot Positioners

Foot Positioners may be crisscrossed over the foot to secure the whole foot **Fig. 80** or can be converted into simple ankle straps. To attach foot positioner, thread strap through footplate as shown in **Figs. 81 & 82**, then bolt strap to underside of footplate.



Fig. 80



Fig. 81



Fig. 82

Footplate Securement Strap

The securement strap holds individual footplates together to prevent them from flipping up and down. To secure the footplates, buckle the left and right strap together. **Fig. 83**



Fig. 83

Footplate Depth Adjustment

All Cruiser chairs offer adjustable footplate depth. Use the Allen wrench to loosen the two bolts located on the top of the footplate. Slide footplate forward or rearward to desired depth. Retighten bolts. **Fig. 84**



Fig. 84

Caster Locks



Fig. 85

Caster locks hold the swivel wheels in a forward facing position to prevent the wheels from turning side to side. (For 2"/50mm wide tires only) **Fig. 85**

Calf Panel

1. Lay Calf Panel flat and unfasten the Velcro® straps. **Fig. 86**
2. Attach Velcro® straps a round Footrest Extension Tube.
3. Position Calf Panel across chair and attach Velcro® Straps around opposite Footrest Extension Tube. **Figs. 87 & 88**

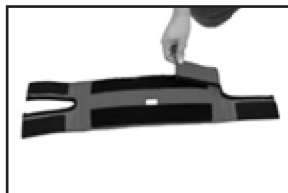


Fig. 86



Fig. 87



Fig. 88

Anatomic Back Support Frame



Fig. 89

The anatomic back support frame stabilizes the neck and head in a functional position to assist the development of neck and head righting reflexes.

The anatomic back frame is optional from the factory and must be ordered with the chair.

Remove the adjustable stiffeners located inside the fabric seat back to custom form to the desire contour with a heat gun. **Fig. 89**

Additional Accessories

Convaid offers a wide variety of accessories to help properly position the user.

NOTE: Convaid's chairs provide a semi-contour fit around the body. The user must be fitted correctly into the chair to achieve optimal posture and comfort.

Swing-Away Lateral Support with Scoliosis Strap

Single Flap

Adjustable trunk support stabilizes the trunk and maintains mid-line positioning. It can be pulled to one side for scoliosis correction if used with scoliosis strap. Scoliosis strap comes standard with all trunk supports. **Fig. 90**



Fig. 90

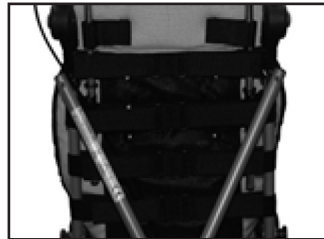


Fig. 91

The trunk support is attached to the chair with straps that wrap behind the seat back and connect with Velcro®. **Fig. 91**

Support is achieved by pulling each triangular flap toward the appropriate side, then securing it by wrapping the strap around the frame and attaching with Velcro®. The two flaps can also be wrapped around the child's torso and joined in the middle.

Double Flap

One set of triangular flaps locates the midline positioning. The second set of flaps wrap around the trunk for stabilization. The scoliosis strap can be used to pull the torso to either side. **Fig. 92**



Fig. 92

Attaching Lateral Trunk Support Single Flap

1. Attach the Lateral Trunk Support to the chair by wrapping the two rear straps around the back of the chair and securing with Velcro®.
2. Attach the single flap, by wrapping the strap on the left flap around the side tubing of the frame, and securing with Velcro® (repeat steps on opposite side) **Fig. 93**
3. Thread the scoliosis strap through the plastic loop on the left flap, back through the plastic loop on the opposite end of the strap, and pull tight. **Figs. 94 - 96**
4. Bring the scoliosis strap across the chest, thread it through the plastic loop on opposite flap, and fasten with Velcro®. **Fig. 97**

NOTE: The Lateral Trunk Support - Single Flap can be used to support either the left or right side of the trunk.

5. To support the right side of the trunk, attach the support to the chair with the double-sided Velcro® strap on the left side. Detach the strap on the right flap from the tubing, and tighten scoliosis strap until desired trunk positioning is obtained. **Figs. 98 & 99**
6. To support the left side of the trunk, attach the support to the chair with the double-sided Velcro® strap on the right side. Detach the strap on the left flap from the tubing, and tighten scoliosis strap until desired trunk positioning is obtained. **Figs. 100 - 102**

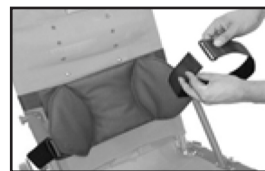


Fig. 93



Fig. 94



Fig. 95



Fig. 96



Fig. 97



Fig. 98



Fig. 99

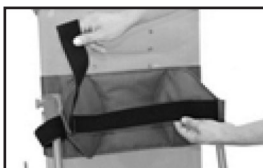


Fig. 100

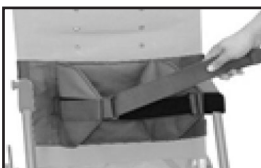


Fig. 101



Fig. 102

Attaching Lateral Trunk Support Double Flap

The Double Flap Lateral Trunk Support brings the trunk to midline position.

- The Inner flaps mobilize the trunk.
 - The Outer flaps centralize the trunk and keep the arms in the front of the chair.
 - The Scoliosis strap aligns the spine.
1. Attach the Lateral Trunk Support to the chair by wrapping the two rear straps around the back of the chair and securing with Velcro®. **Fig. 103**
 2. To attach the double flap, wrap the strap on the left-hand outer flap around the side tubing of the frame and secure with Velcro®. **Fig. 104**
 3. Thread the strap on the left-hand inner flap into the plastic loop on the outer flap working from front to back. **Fig. 105**
 4. Adjust and secure strap. (Repeat steps 3 and 4 on right-hand flap.) **Fig. 106**
 5. Bring the long scoliosis strap through the plastic loop on the inner flap on the right-hand side and across the chest. **Fig. 107**
 6. Thread the strap through the plastic loop on the inner flap on the left-hand side. **Fig. 108**
 7. Fasten the strap with Velcro®. **Fig. 109**
 8. If additional tightness is desired, pull the scoliosis strap further and Velcro® it beyond the inner flap.

NOTE: The Lateral Trunk Support-Double Flap can be used to support either the left or side of the trunk right.

To support the right side of the trunk, attach the Support to the chair with the double-sided Velcro® strap on the right. **Fig. 110**

To support the left side of the trunk, attach the Support to the chair with the double-sided Velcro® strap on the left. **Fig. 111**

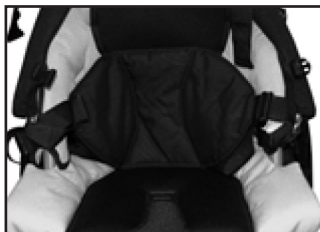


Fig. 103



Fig. 104

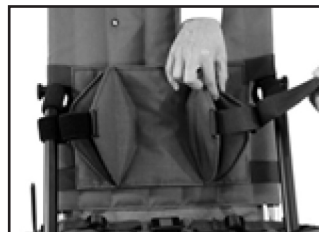


Fig. 105

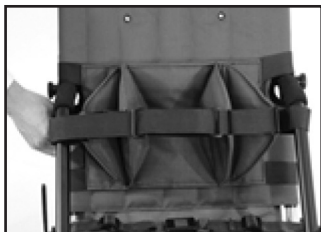


Fig. 106

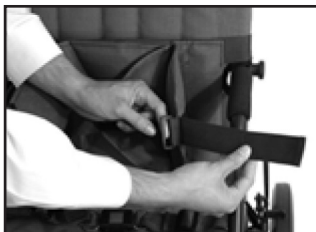


Fig. 107



Fig. 108



Fig. 109



Fig. 110



Fig. 111

Full Torso Swing-Away Support Vest



Fig. 112

An adjustable support vest keeps the user in place Comfortably and securely. It helps to maintain midline seating position and prevents forward slumping. The vest is attached to the chair with straps that wrap around the seat back and connect with Velcro®, and shoulder straps that screw into the seat back. Adjust the side straps for proper fit. **Fig. 112**

Lateral Thigh Support (Adductor)



Fig. 113

Pulls thighs together, improving hip alignment and stabilizing seating position. The degree of adduction can be varied and can favor one side. Fold the adductor flaps over the thighs, wrap the straps under and around the arm rest tube and attach with buckle. **Fig. 113** The adductor is attached with screws at the end of the seat tubes.

Medial Thigh Support (Abductor)



Fig. 114

Separates the thighs to improve hip alignment and stabilize sitting posture. Degree of abduction can be varied and can favor one side. The abductor flaps wrap over the user's thighs from the inside to the outside. The straps buckle around the seat tube or the arm rest. They can also be wrapped around the arm rest tube twice for high tone children. **Fig. 114** The abductor is attached with screws at the end of the seat tubes.

Padded Headwings

Adjustable padded head-wings provide soft foam support for midline positioning. **Fig. 115** The padded head-wings can be attached at any height by wrapping the Velcro® straps around the frame and attaching at the back of the chair. Secure head-wings by tying laces through the grommet holes in the back of the seat fabric or headrest extension. **Fig. 116**



Fig. 115

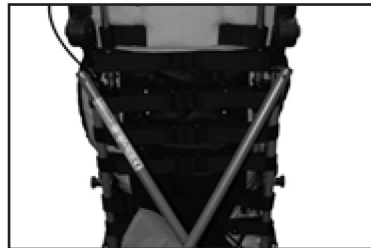


Fig. 116

Headrest Extension

To Install

Insert Headrest Extension Tubes into the Headrest Holding Brackets and push down. **Figs. 117-119**

Cordura Upholstery. **Figs. 117-119**

Textilene Upholstery. **Figs. 120 & 121**



Fig. 117



Fig. 118



Fig. 119



Fig. 120



Fig. 121

Occi Headwing



Fig. 122

Occi Head-wing supports and positions the head at the occipital area. This headrest provides added comfort, allows side to side head movement without obstruction, and does not block the individual's ears and line of vision.

The Occi Head-wing can be attached at any height. Secure Head wing by tying laces through the grommet holes at the back of the seat fabric or headrest extension. **Fig. 122**

5-Point Harness

ADJUSTING THE STRAPS

1. Release the Rear Lock Brace by lifting up on the center of brace. **Fig. 123**
2. Press in the silver snap button on the Rear Lock Brace **Fig. 124** then pull the lock brace off of the housing. **Fig. 125**
3. Pull shoulder strap through the upholstery, reposition to the desired height, and reinsert it back through the seat upholstery **Fig. 126**. Slide the shoulder harness loop on to the Rear Lock Brace **Fig. 127**.
4. Reinsert the Lock Brace onto the housing by pushing it with the palm of your hand. **Figs. 128 & 129**
5. Lock the Rear Lock Brace by pressing down on the Rear Lock Brace. **Fig. 130**

NOTE: The shoulder straps should be positioned in slots that are slightly above the shoulders of the child, and as the child grows, they should be moved to maintain a height above the shoulder level.

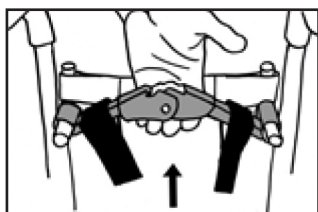


Fig. 123

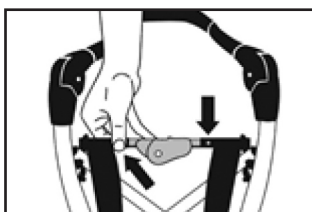


Fig. 124

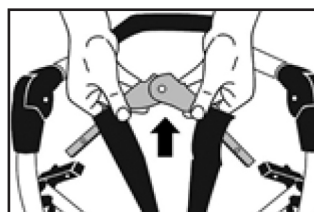


Fig. 125

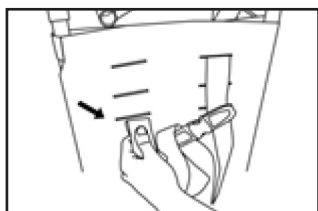


Fig. 126

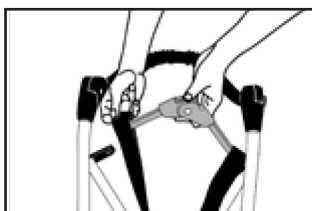


Fig. 127

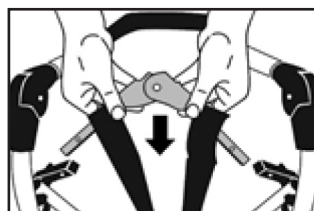


Fig. 128

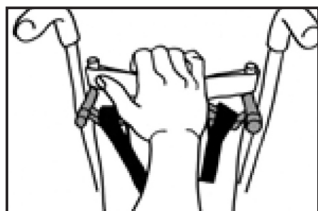


Fig. 129

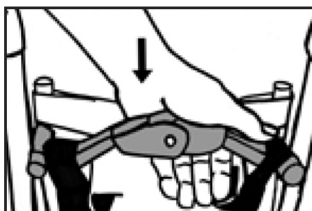


Fig. 130

Adjusting the Pelvic Belt Strap

To Tighten:

Tighten the pelvic belt straps by pulling on the loop located at the end of the strap. **Fig. 131**

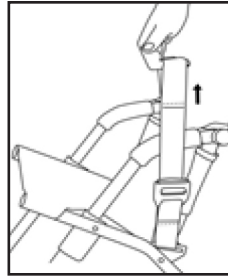


Fig. 131

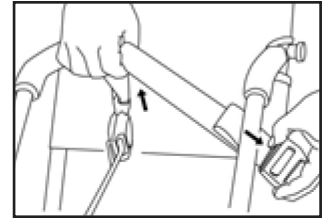


Fig. 132

To Loosen:

Loosen the pelvic belt strap by pushing the gray button on the Strap Adjustment Lock and pulling on the end of the strap closest to the buckle. **Fig. 132**

Adjusting the Crotch Strap

To Tighten:

Tighten the Crotch Strap by pulling on the loop located at the end of the strap. **Fig. 133**

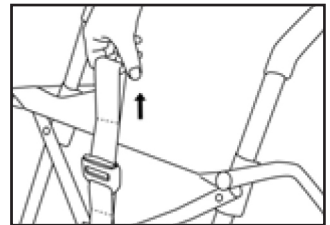


Fig. 133

To Loosen:

Loosen the Crotch Strap by pushing the gray button on the Strap Adjustment Lock and pulling on the end of the strap closest to the buckle. **Fig. 134**

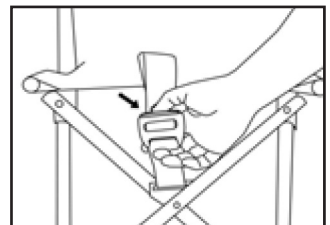


Fig. 134

Seat Cushions

Support: General Use Cushion

Flat foam with wooden insert **Fig. 135**

- Promotes stability and posture control and provides comfort for the user.
- Waterfall front eliminates pressure points at the back of the knees.



Fig. 135

Position: Medial Thigh Support and Anti-Thrust Cushion

Contoured foam with wooden insert **Fig. 136**

- Medial thigh support helps position the legs out of adduction and into better alignment, which can provide for improved weight-bearing balance and stability.
- When used with a lap belt, the 25 mm anti-thrust shelf in front of the ischials (seat bones) helps eliminate sliding or thrusting forward of the pelvis. This provides improved stability and reduces sacral sitting.



Fig. 136

Align: Lateral Pelvis and Lateral Thigh Support Cushion

Contoured foam with wooden insert **Fig. 137**

- Contoured edges provide lateral, pelvic and thigh positioning to reduce lateral movement of the pelvis and improve lower extremity stability.
- Increased surface contact for better weight distribution.



Fig. 137

Fitting

The fitting of the cushion should be done by a clinician. When fitted correctly, the cushion will help provide stable support and promote good posture. Consult your clinician for questions regarding individual needs.

Select the cushion size to match the seat width and depth of the chair. Measure the distance between the back of the buttocks and the back of the knees. Subtract 25mm - 51mm to allow for adequate clearance between the seat and the back of the knees.

1. Apply wheel locks. Never leave occupied chair unattended.
2. With the material identification tag towards the rear of the chair, place the cushion onto the seat upholstery. Line up the Velcro® straps to secure the cushion in place. Front end of cushion should line up with the front edge of the seat upholstery. Position the hips of the occupant to the back of the seat. The ischials (seat bones) should be centered on the seat well of the cushion. Use positioning belt to buckle occupant into the chair.
3. Adjust the wheelchair footrest height so that the user's leg rest firmly but comfortably on the cushion. Proper footrest adjustment will enhance sitting comfort and help lower peak sitting pressures. If applicable, readjust armrest height and lateral trunk supports.

Caution

The height and weight of the occupant, in conjunction with a seat cushion, may affect the center of gravity and cause the wheelchair to become unstable, potentially resulting in injury. Prior to use, assess the stability of the wheelchair by sitting in it with the cushion attached.

Ensure the cushion's Velcro® is in good condition and is aligned properly with the Velcro® on the wheelchair seat. Make sure the cushion is firmly attached. An improperly attached cushion may cause sliding, potentially resulting in injury.

Changes in the user's condition or growth, weight or changes in wheelchair equipment or accessories may require reassessment by a clinician to ensure proper cushion fit and suitability. Skin should be constantly checked by the user's caregiver for any signs of reddened areas or skin sensitivity. These areas should be brought to the attention of your clinician. The clinician should also assist you with assessing the cushion for any possible areas that have bottomed out.

Accessories

Upper Extremity Support Surface (Tray)

ATTACHING THE TRAY

1. Raise front of the tray with the tray supports completely unfolded. **Fig. 137**
2. Engage knobs on side of chair with tray hooks underneath. **Fig. 138**
3. Lower tray until supports are positioned over the outside of the front legs. **Fig. 139**

NOTE: For Scout option, raise arm rest before engaging knobs.



Fig. 137



Fig. 138



Fig. 139

Saddle Bags

To Install

1. Insert Front Button Strap into opening in Mesh Seat Bottom and over Seat Tube. **Fig. 140**
2. Verify the strap is in front of the Seat Tube Retaining Bolt, then snap button shut. **Fig. 141**
3. Wrap Rear Button Strap around Seat Tube and snap shut. **Figs. 142 & 143**



Fig. 140



Fig. 141



Fig. 142



Fig. 143

Under Seat Storage Basket

1. Connect Center Button Strap by looping it over Rear Cross Brace and snapping button to back of basket. **Fig. 144**
2. Loop Side Button Strap over Chair Tubing (just above the Rear Axle Assembly), and snap button shut. Repeat for opposite side. **Fig. 145**
3. Loop Front Button Strap over Chair Tubing (just above Front Cross Brace Mount), and snap button shut. **Figs. 146-148**



Fig. 144

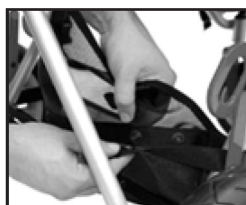


Fig. 145



Fig. 146



Fig. 147



Fig. 148

Headrest Cover (Canopy)

ATTACHING CANOPY

1. Remove Canopy from box. **Fig. 149**
2. Align Canopy Retaining Clips with upper tubing on back of the chair. **Fig. 150** Push on clips with the palm of your hand until the canopy frame snaps into place. **Fig. 151**
3. To open, grasp top of Canopy and push forward and rotate downward. **Figs. 152-154**
4. To close the Rear Flap of Canopy, attach the Velcro strap to Velcro receiving patch on the edge of the Canopy Hood. **Fig. 155**
5. To fold, repeat above steps in reverse order. **Fig. 156**



Fig. 149



Fig. 150



CAUTION: Keep fingers away from moving parts.



CAUTION: To prevent breakage of canopy clips, always carefully follow the instructions and avoid twisting when attaching or removing the canopy.



Fig. 151



Fig. 152



Fig. 153



Fig. 154



Fig. 155



Fig. 156

Heavy-Duty Reinforced Upholstery

Heavy-duty, reinforced, padded seat and seat back come with pockets which have removable plastic stiffeners. Use when extra firmness is required. Stiffeners easily lift out of pockets for custom-forming with a heat gun. **Fig. 157**



Fig. 157

Reducer Seat Insert

The Reducer Seat Insert provides proper positioning in an oversized wheelchair. This cushion easily slips into the seat of the chair to reduce the seat width 2" (51mm) and the seat depth 1" (25mm). The ribbed surface provides comfort and promotes airflow. **Fig. 158**



Fig. 158

Rear Anti-Tip Tubes

1. To install the anti-tip tube, align the tube with the end of the round frame tubing located next to the rear wheel. **Fig. 159**
2. Push the spring button while positioning the anti-tip tube onto the round frame tubing **Fig. 160**, and push until the "release button" pops through the hole located on the anti-tip tube. **Fig. 161**
3. Repeat steps 1 & 2 for opposite side.
4. To remove the Anti-Tip Tubes, perform above steps in reverse order.



CAUTION: If the user's weight is less than 50 lbs (22.7 kg), the use of anti-tip tubes is recommended.



Fig. 159



Fig. 160



Fig. 161

Utility Bag

The Utility Bag attaches to the back of the chair, but can be removed and converted to a tote bag. **Figs. 163 & 164**

To Attach:

Hook clasps onto straps.

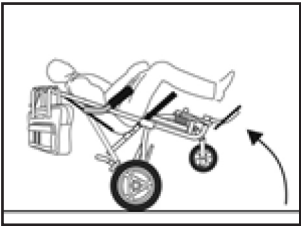


Fig. 162



CAUTION: Do not overload bag. **Fig. 162**



Fig. 163



Fig. 164

Transit Models


The optional wheelchair transport model has been crash tested and performed satisfactorily at 30 mph/20g deceleration. The optional models conform to RESNA WC-19 or ISO 7176-19 standards. Dummy weights are:



Fig. 165

All Cruiser Models

Model CX10T	66lbs / 30kg
Model CX12T	66lbs / 30kg
Model CX14T	100lbs / 45.5kg
Model CX16T	170lbs / 77kg
Model CX18T	170lbs / 77kg

-  To reduce possibility of injury, the headrest extension must always be used with the chair. The following instructions should be followed to minimize impact in case of a crash:.
1. During transit, the chair must be forward facing with tray and storage basket removed.
 2. Use only a tested, proven and compatible 4-point wheelchair tie-down system (WTORS), and a 3-point occupant restraint system in accordance with SAE J2249.3.
 3. The wheelchair tie-downs must be securely attached to the four black anchor points on the chair. See arrows in above photo for anchor points.
 4. The occupant restraints must include a lap and a shoulder belt, secured directly to the Cruiser frame and side of roof of vehicle.
 5. All floor tie-down straps must be drawn tight in the front and the back to eliminate any forward/aft movement of the chair.
 6. Wheelchair restraint manufacturers' instructions must be followed precisely to ensure intended performance.

NOTE: Tray, storage basket and other accessories must be removed during transport in bus or van, except when medically necessary.

NOTE: Do not over tighten tie downs. This may cause damage to the frame.

Wheelchair Lateral Stability and Belt Restraint Accommodations Ratings


Wheelchair Model	Mass (Weight) of Wheelchair (lbs./kg)	Test Rating	Lateral Stability** (in./mm)
CX-10T	27/12	Acceptable	0.25/6.4
CX-12T	27/12	Acceptable	0.35/8.9
CX-14T	28/13	Acceptable	1.18/30.0
CX-16T	32/14.5	Acceptable	1.97/50.0
CX-18T	30/13.6	Acceptable	1.57/39.9

** “Lateral stability” is the displacement of point P (the center of gravity on the loaded wheelchair) when a platform with the loaded wheelchair is tilted 45° laterally from the horizontal. Higher numbers indicate less stability.


This table refers to tests performed in accordance with WC-19 to establish lateral stability during normal travel and the ease of use and proper fit of vehicle-anchored belt restraints. The letter designation reflects the overall rating of the lap and shoulder belt positioning and installation.

Transportation Mode Instructions


The OPTIONAL Transit Version Cruiser can transport users in motor vehicles that are compatible with Occupant Restraint Systems (WTORS). The chair MUST be secured in a forward-facing position with a Wheelchair Tie-down and Occupant Restraint Systems (WTORS), which meets the requirements of WC-4 or ISO 7176:




CAUTION: The wheelchair should be used as indicated in the User’s Guide instructions accompanying the wheelchair. Failure to do so increases the likelihood of serious injury in a vehicle crash.



CAUTION: Do not attach tie downs anywhere except designated tie down locations.



CAUTION: During transit, chair must be forward facing with the seating module in the forward facing position on the mobility base. All accessories should be removed.



CAUTION: Do not alter or substitute any part or component of the wheelchair, wheelchair frame or wheelchair seating system.



CAUTION: Cruiser was dynamically crash tested in a forward- facing configuration using an appropriately sized crash-test dummy restrained by both upper-torso (shoulder) and lower- torso (lap) belts. To reduce the possibility of head and chest injuries resulting from contact with vehicle components, you must use both upper and lower torso belts.



CAUTION: During transit, a five-point harness should be used for occupant weight less than 51lb (23kg).



CAUTION: Both pelvic and torso restraint belts must be used while traveling aboard a motor vehicle.



CAUTION: When riding aboard a motor vehicle, it is preferred that the wheelchair user transfer into the vehicle's manufacturer's seat and use a federally approved, crash-tested seat.



CAUTION: Whenever possible, auxiliary wheelchair equipment should be removed from the wheelchair and secured in the vehicle during transit so that it does not break free and cause injury to vehicle occupants during a crash.



CAUTION: Do not use the chair if it has been involved in a crash. In the event that your Cruiser is involved in a crash, please contact the Convaid Service Dealer or Convaid Customer Service Representative in order to arrange an evaluation of your Cruiser. For information on how to contact your representative please see page 66.



CAUTION: CX-18 exceeded the maximum recommendation width. Use caution when entering/exiting small space.



CAUTION: Adequate clear zones are required for occupants restrained by both upper-and lower-torso belt restraints. (See **Figs. 166 & 167**)

Recommended Clear Zones In Vehicle

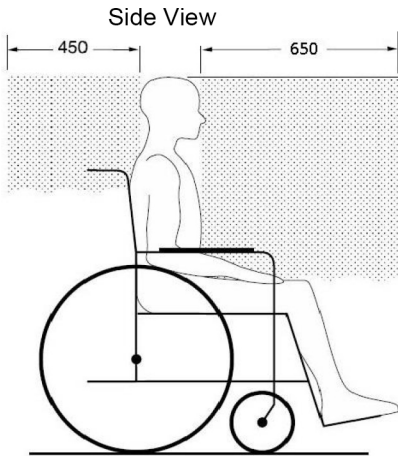


Fig. 166

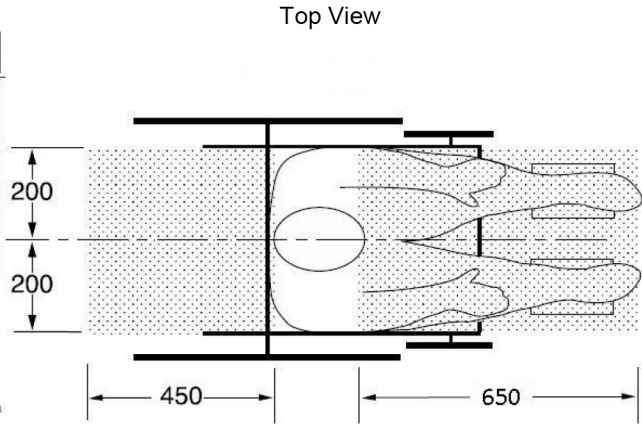


Fig. 167

The rear clear zone is measured from the rearmost point on an occupant's head. The front clear zone is measured from the frontmost point on an occupant's head.

Dimensions are shown in millimeters.

Providing Clear Space & Padding

Position the wheelchair aboard the motor vehicle to ensure sufficient clear space in front of, and behind, the occupant. (See **Figs. 166 & 167**)



CAUTION: If there are any hard or sharp objects or components near the wheelchair, such as components of lifts or fold-up seats, they must be covered with heavy-duty energy-absorbing padding to ensure the safety of the wheelchair occupant and other passengers.

Cruiser Transit Anchor Installation



CAUTION: Follow the instructions provided to securely install the transit anchors to your wheelchair.



CAUTION: Only use high strength fasteners provided by Convaid to attach the transit anchors.



CAUTION: The transit anchors are to be installed one time only using the hardware provided. Removal and reinstallation of the transit anchors will weaken the fitting of the hardware.



CAUTION: Engage wheellock brakes before installing the transit anchors.



CAUTION: For specific maximum transit weight capacity of your wheelchair, please see below:

- CX10 - 30 kg
- CX12 - 30 kg
- CX14 - 45.5 kg
- CX16 - 77 kg
- CX18 - 77 kg

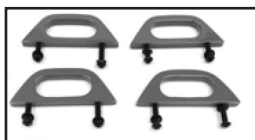


Fig. 168 Transit Anchors



Fig. 169

Items Included in Kit:

1. 2 Front Transit Anchors
2. 2 Rear Transit Anchors
3. Attaching Hardware
4. 4 Transit Anchor Logo Stickers
5. 1 Transit Ready Serial Label Sticker



Fig. 170

To Install Transit Anchors

1. Before attaching each transit anchor **Fig. 168**, apply Loctite 131 adhesive to the end of each corresponding bolt.
2. Attach 2 transit anchors to the front left and right sides of the frame. **Fig. 169**
3. Secure the hardware using a 5/32" Allen wrench and tighten the bolt to 47in-lb, 5.3 N•m.
Fig. 170
4. Attach 2 transit anchors to the rear left and right side of frame. **Figs. 171 & 172**



Fig. 171



Fig. 172



CAUTION: Specialized hardware is designed for one time use only. Reinstalling will weaken the fittings of the hardware.

Anchor Logo Sticker

Place anchor hook sticker labels to the frame and the seating module. **Fig. 173**

Serial Label Sticker

Place the transit ready sticker over the non-transit hook symbol on the serial label sticker. **Fig. 174**



Fig. 173

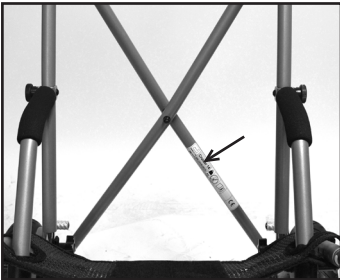


Fig. 174

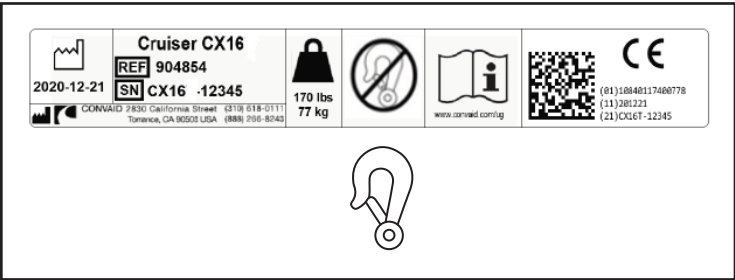


Fig. 175

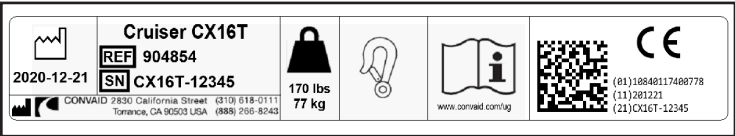


Fig. 176

PROPER USE OF EQUIPMENT

Securing the Wheelchair

Attach tiedown straps to securement points (black brackets) located on the wheelchair's legs in accordance with the WTORS manufacturer's instructions. Securement points are identified by the symbol in **Fig. 177**, and their location on the wheelchair illustrated in **Fig. 178**



Fig. 177



Fig. 178

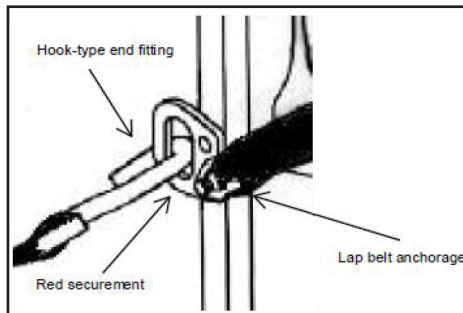


Fig. 179

When securing the occupied wheelchair, it is important that the WTORS anchor points on the floor and wall of the motor vehicle are positioned properly according to the WTORS manufacturer's instructions. The wheelchair must be positioned facing forward inside the vehicle. Position the wheelchair between the front and rear tiedown anchor points, allowing for the correct angle of adjustment of the tiedown straps, as illustrated in **Fig. 179**.

Your Convaid transit wheelchair can be easily secured by four-point strap-type tiedowns by attaching the hook end fittings of the tiedown straps to the four black securement-point brackets located on the four tubular legs of the wheelchair or by threading tiedown straps through the openings in the securement points.

The floor anchor points and wheelchair should be located:

- So that the tie-down straps follow a straight, clear path from the wheelchair securement points to the floor anchor points and
- So that the front straps are angled outward from the sides of the wheelchair (see **Fig. 180**) and
- So that the rear straps are anchored straight back from the wheelchair securement points

Once all four tie-down straps are attached to the wheelchair:

- Inspect all tie-down straps for signs of wear to the webbing and replace any straps that are worn and
- Tighten the straps to remove any excess slack and provide tension between the front and rear tie-down strap

PREFERRED LOCATIONS OF FLOOR ANCHOR POINTS

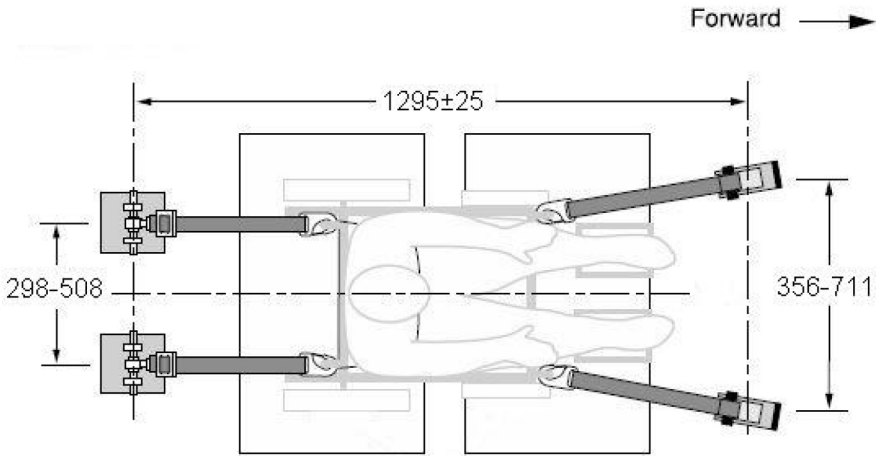


Fig.180 Dimensions are in millimeters

FIG. 180: FRONT TIEDOWN STRAPS ANGLED AWAY FROM SIDES OF WHEELCHAIR.
FIG. 181: CORRECT POSITIONS OF SHOULDER AND LAP BELT RESTRAINTS AND WHEELCHAIR TIEDOWNS.

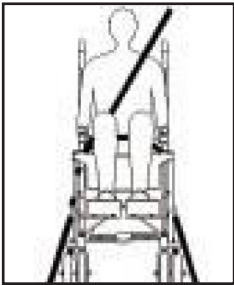


Fig. 181



Fig. 182

STANDARD METAL CLIP (**FIG. 183**) AT LOWER END OF SHOULDER BELT AND AT END OF OPTIONAL WHEELCHAIR-ANCHORED LAP BELT USED TO CONNECT TO PIN/BUSHING (**FIG. 184**) ON LAP BELT OR ON WHEELCHAIR SECUREMENT POINT BRACKETS.

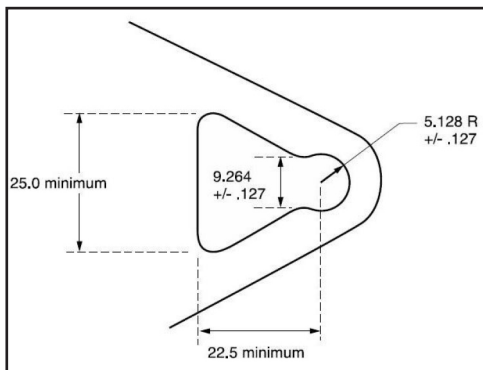


Fig.183 Dimensions are shown in millimeters

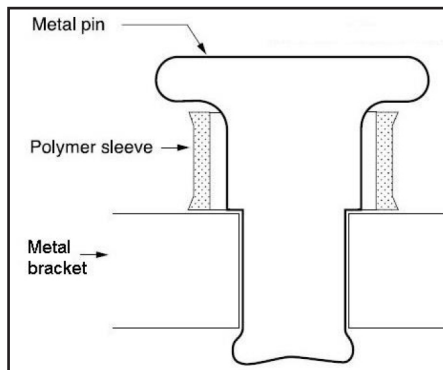


Fig. 184

Restraining the Wheelchair Occupant

Your Convaid transit wheelchair was dynamically crash tested in a forward-facing configuration using an appropriately sized crash-test dummy restrained by both upper-torso (shoulder) and lower-torso (lap) belts. To reduce the possibility of head and chest injuries resulting from contact with vehicle components, you must use both upper and lower torso belts. (See **Figs. 181 & 182**)

Your Convaid transit wheelchair provides for the use of an optional wheelchair-anchored lap belt. The optional belt, which has been dynamically tested in accordance with Annex A of WC19, may be ordered from Convaid at a nominal additional cost. To attach the lap belt to the wheelchair, secure the metal clips at the ends of the lap belt, to the pin/bushing connectors located on the wheelchair's rear securement-point brackets.

Before loading the wheelchair onto the vehicle lift, fasten the lap belt over the wheelchair user's pelvis. The wheelchair user should wear the optional lap belt as low over the pelvis and as snugly as possible without compromising comfort. The vehicle-anchored shoulder belt may then be clipped to the pin/bushing connector located on the lap belt near where it attaches to the chair. When not in use, the optional lap belt may be looped underneath the seat, buckled, and tightened.

If the wheelchair is purchased without the optional lap belt or if the wheelchair user elects not to use the belt, a vehicle-anchored lap and shoulder belt must be used. As with the wheelchair-anchored lap belt, it is very important to position the vehicle-anchored lap belt low over the pelvis so that the angle of the lap belt is within the preferred zone of 45° to 75° to the horizontal or the optional zone of 30° to 45° to the horizontal, as shown in **Fig. 185**.

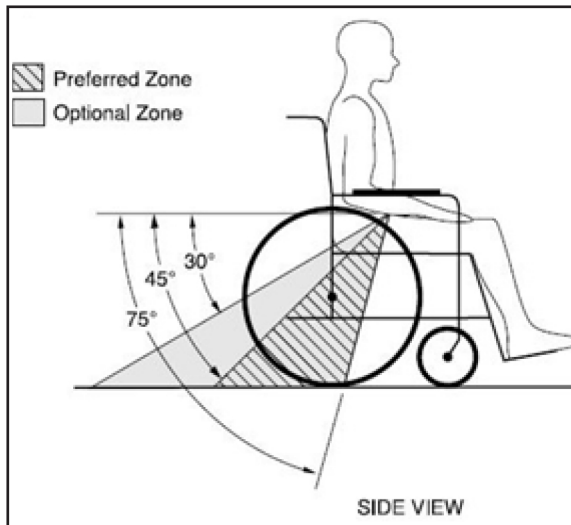


Fig. 185

NOTE: Steeper side view pelvic-belt angles are especially important if the pelvic belt is intended to be used for postural support in addition to occupant restraint in a frontal crash. Steeper angles will reduce the tendency for a vertical gap to develop between the user and the belt due to compliance of seat cushions and belt movement, thereby reducing the tendency for the user to slip under the belt for the belt to ride up on the soft abdomen during normal use.

NOTE: Steeper belt angles also reduce the tendency for upper-torso belts to pull the pelvic belt onto the abdomen during frontal impact loading.



Fig. 186

Be sure that the shoulder belt crosses the chest and the middle of one shoulder and that belt restraints are not held away from the body by wheelchair components or parts, such as arm rests or wheelchair legs. (See **Fig. 186**)

Thread the lap belt under the frame tubes located directly under the user's elbows and pull the belt snug against the pelvis. Ensure that belt webbing is not twisted as this may compromise safety. It is best for Cruiser to be transported with the seat in a relatively upright orientation. However, if the seat must remain in a tilted position for medical reasons, the seat back should not be reclined more than 30 ° from the vertical. If it is necessary to recline the seat more than 30 °, move the shoulder belt anchor point rearward on the vehicle wall so that the shoulder belt remains in contact with the wheelchair user's shoulder and chest.

Using Postural Belts & Supports

Positioning accessories such as pelvic positioning belts, anterior trunk supports, and lateral trunk supports may be used while in transit, but are not designed to provide restraint during a crash. Postural supports and belts should therefore not be relied on for restraint in a vehicle crash and should be used only in conjunction with lap and shoulder belts that have been designed for restraint in a motor vehicle and crash tested in accordance with RESNA WC-4-19 and/or ISO 7176-19.

Trays & Other Wheelchair Components

To reduce the risk of potential injury to the wheelchair user or other occupants in a motor-vehicle crash, wheelchair-mounted accessories, such as trays and respiratory equipment, must be removed and secured separately during transit. Use tether straps or other strong attachment hardware to prevent items from breaking loose and causing injury during a crash. If it is absolutely necessary to keep a tray on the wheelchair during transit, energy-absorbing padding must be placed between the edge of the tray and the wheelchair user or serious injury may result during a crash.

WTORS Manufacturers

Convaid is a wheelchair manufacturer and does not offer wheelchair tiedown and occupant restraint systems (WTORS). However, products that comply with current WTORS standards can be obtained from the following companies that specialize in crash-tested WTORS:

Q'Straint, Sure-Lok, Unwin and Ortho Safe specialize in crash-tested tie-down systems and are in no way associated with Convaid.

Ortho Safe Systems
P.O. Box 9435
Trenton, NJ 08650 U.S.A
(609) 587-9444

Sure-Lok
400 S. Greenwood Ave. #302
Easton, PA 18045
U.S.A (866) 787-3565

Q'Straint
5553 Ravenswood Rd. #110
Ft. Lauderdale, FL
33312 U.S.A
(954) 986-9987

Unwin Safety Systems
Unwin House
The Horseshoe Coat Road,
Martock, TA12, 6EY U.K.
(44) (01935) 827740

Miscellaneous

Fabric Removal

Partially fold the chair to relieve fabric tension (see fold instructions on page 9). The lower seat panel is attached to the back panel with Velcro®. Remove Velcro® from the top of the seat bottom. Press spring button at the end of the seat extension, and take off upholstery. **Figs. 187 & 188**

To remove the top portion of the seat, remove the Velcro® straps that attach the seat upholstery to the frame, and take off upholstery. Lift fabric off seat tubes and away from upper handles. The seat-reinforcing strap should remain on frame. **Figs. 189**



Fig. 187



Fig. 188

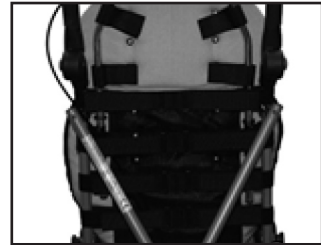


Fig. 189

Adjustable Tension Back

To adjust the Tension Back, unfasten the Velcro Straps and pull to desired firmness. **Fig. 190** After adjustments are made, refasten Velcro straps. Repeat steps 1 and 2 on each set of straps. **Figs. 191 & 192**



Fig. 190



Fig. 191



Fig. 192

Full Torso Swing-Away Support Vest

An adjustable support vest keeps the user in place comfortably and securely. It helps maintain midline-seating position and prevents forward slumping. The vest is attached to the chair with straps that wrap around the seat back and connect with Velcro®, and shoulder straps that screw into the solid seat back. Adjust side straps for proper fit. **Figs. 193 - 195**

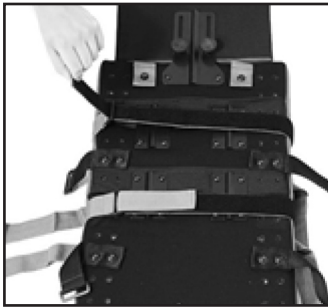


Fig. 193

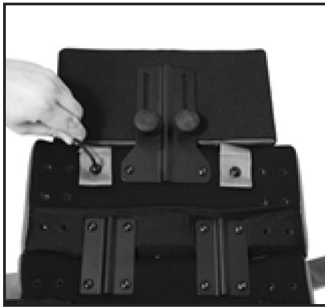


Fig. 194



Fig. 195

Contoured Firm Headrest (Head-wings)

Adjust the headrest height by slightly loosening the knobs on the seat back, and raising or lowering the headrest. It can also be pivoted by changing the horizontal alignment of the knobs.

Fig. 196

NOTE: All other positioning options and accessories are utilized on the planar seating system the same way as on the standard Cruiser. See front of User Guide for detailed information.



Fig. 196

Scout Options

Wheel Lock Adjustment

Set wheel locks to locked position. Push chair with light pressure on the rear wheels. If wheel rotates, adjust tension by turning the adjustment nut until wheels no longer rotate while locked. **Fig. 197**



Fig. 197



Hand Brakes

Use riding brakes to maintain control of the wheelchair when going down an incline. A moderate squeeze to the two hand levers will slow the chair; a firm squeeze will stop the chair. **Fig. 198**

When stationary, moving the handles to a full rearward position will stop the chair from moving. **Fig. 199**

NOTE: Regular inspection is necessary to maintain the brake system.

Follow the instructions in the back of this User's Guide on how to adjust brakes when needed.



Fig. 198

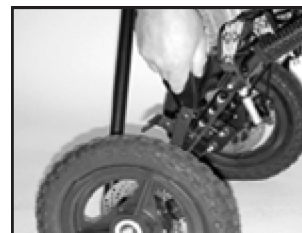


Fig. 199

Lever Adjustment

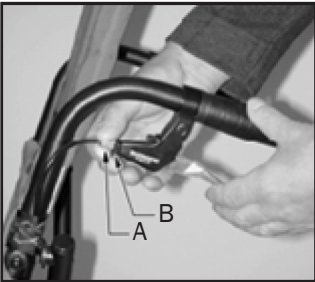


Fig. 200

To increase brake pressure, turn adjusting nut (A) counter clockwise, then turn locknut (B) clockwise to secure nut (A) in position. **Fig. 200**

NOTE: Adjust when lever pressure is too high.



Fig. 201

Inner Pad Adjustment

Turn nut clockwise to move pad closer to disk (wheel should spin and not grab). **Fig. 201**

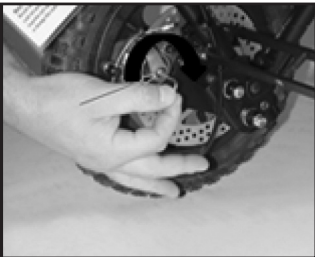


Fig. 202

Outer Pad Adjustment

Insert Allen wrench (2.5mm) into the screw, turn clockwise to move pad closer to disk (wheel should spin and not grab). **Fig. 202**

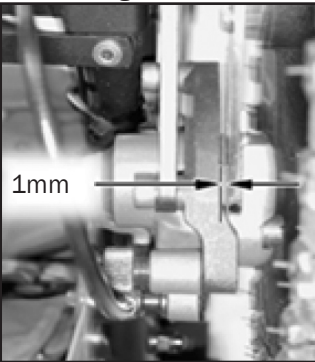


Fig. 203

Brake Pad Wear

Brake pads should wear no thinner than 1mm before replacement.

Fig. 203

Removal of Brake Pads

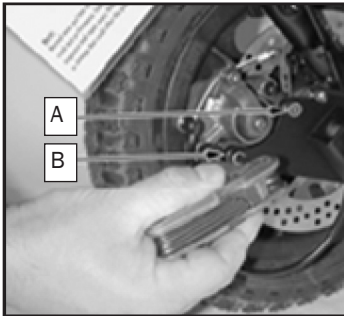


Fig. 204

Remove calipers from the axle brackets by unscrewing Hex bolts (A) & (B) with a 5mm wrench. **Fig. 204**

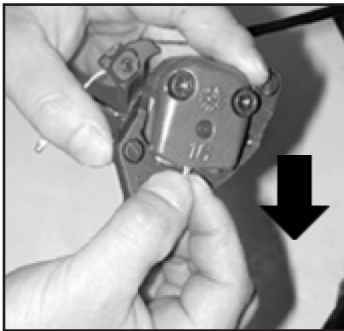


Fig. 205

Remove outer pad first by pulling tab downward. **Fig. 205**

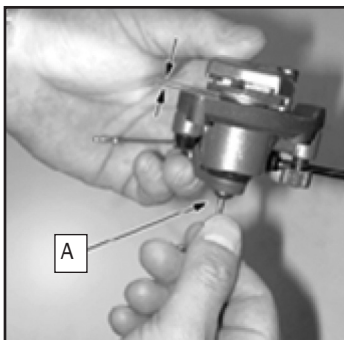


Fig. 206

To remove inner pad, insert a 2.5mm Allen wrench into screw (A) and turn clockwise until the back of the pad is clear of its housing. **Fig. 206**

With a small screw driver, press the pad downward until it is clear of its housing. **Fig. 207**
 Remove the two springs from the old pad assembly **Fig. 208**. Attach the two springs to the new pad assembly making certain that the hooks are properly seated over the two sheet metal steps. **Fig. 209**
 To install new pads, first insert inner pad as shown.

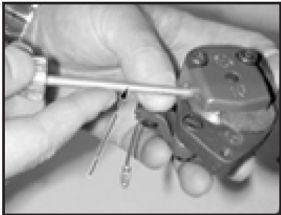


Fig. 207

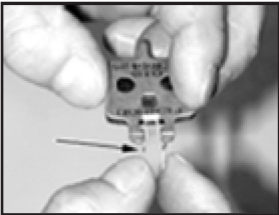


Fig. 208

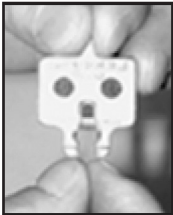


Fig. 209

NOTE: Spring should lightly clip onto the small post in the center of the piston and push inward. **Fig. 210**

Using the 2.5mm Allen wrench inserted into (A), replace the pad into the housing. At the same time, turning counter-clockwise, insert a flat head screwdriver to push the pad. **Fig. 211**



Fig. 210

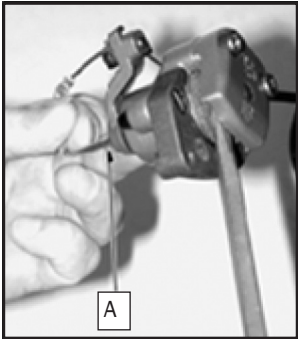


Fig. 211

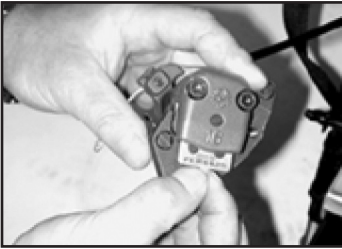


Fig. 212

Install outer pad by dropping the spring side over the small post. Push upward until the spring clips lightly onto the post. **Fig. 212**

Replacing Pads

NOTE: A brake system needs some time to break in. Initially, the rubbing of the pad on the disc may cause some noise.

Return calipers to the axle bracket using Hex bolts (A) & (B) and Allen wrench. **Figs. 213 & 214**

Make sure Hex bolts are securely tightened. Test brakes for effectiveness. Brake levers should travel approximately 25mm.

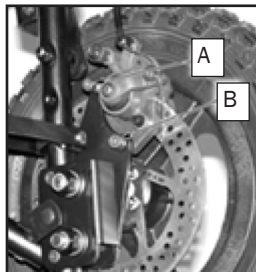


Fig. 213

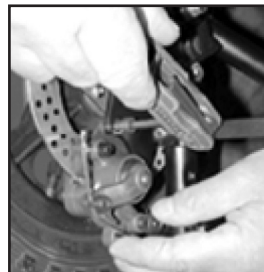


Fig. 214

Cleaning

To avoid damage to the brake seals, use only alcohol or water when cleaning the caliper part.

Important Information

Maintenance, Operating & Safety Instructions

- READ ALL INSTRUCTIONS BEFORE USING THE PRODUCT
- ALWAYS FOLLOW THESE SAFETY INSTRUCTIONS
- SAVE SAFETY INSTRUCTIONS FOR FUTURE REFERENCE

**CAUTION :**

- For increased safety, the seat belt should be used at all times.
- Do not leave user unattended.
- Do not strap user too tight.
- Straps should not interfere with breathing or circulation.
- Always apply wheel locks before letting go of the chair.
- If front edge of seat is at or forward of the point where tires touch the floor, avoid using front of seat tubes for support during entry or exit from chair to prevent tipping.
- Avoid using footplates for weight support during exit or entry of the chair.

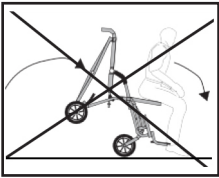


Fig. 215

Waste Disposal

The shipping carton should be kept for possible return to the manufacturer/service facility for repair or maintenance. Other paper packaging waste should be set aside for recycling. For disposition of replaced parts or the complete chair, the materials should be separated into: plastic, rubber, steel, aluminum, etc., and set aside for recycling.

Chair Maintenance

The following maintenance procedures should be conducted on a regular basis: Examine your Convaid product visually from time to time for possible wear and tear. Lubricant should be applied to frame and moving parts to maintain easy folding and adjustment.

- Tire Air Pressure:** The air pressure in your tires should be checked WEEKLY, since low air pressure may affect brake ability.
- Axles and Moving Parts:** Axles and moving parts should be wiped off WEEKLY with a slightly moist cloth, to remove dust, dirt and mud. Apply some lubricant after each cleaning.
- Repair or replace loose, worn, bent, missing or damaged parts before using the chair!**
- Flat Tire:** In the event of a flat tire, please contact customer service or your local dealer for specific repairing instructions.

IMPORTANT INFORMATION

Check for functionality and/or damage of the following:	Weekly	Every 3 months	Every 6 months	As necessary
Rims and tires	•			
Wheel lock and hand brakes	•			
Accessories	•			
Front and rear wheel axles	•			
Cleaning & lubricating all moving parts*	•			
Belts, zippers and Velcro® closures		•		
Seat/back upholstery**/tautness		•		
Armrests & foam (cushioned parts)			•	
Frame			•	
Contacting a Convoid Dealer for service or repair***				•

- * Use a non-toxic, hypoallergenic, dry lubricant for all moving parts of the frame.
- ** Follow cleaning instructions for appropriate user hygiene.
- *** Repair or replacement of non-removable, worn or broken parts must be performed by a qualified service facility.

Cleaning and disinfection

To prevent the spread of germs, clean all skin contacting areas with disinfectant wipes regularly. Keep frame dry and apply a non-toxic, hypoallergenic and biodegradable lubricant to all moving parts. After longer storage periods, and before further use, the entire chair needs to be serviced, cleaned, and disinfected.

Cleaning of frame

Frame is to be kept dry and free of dirt and should be wiped off with a non-toxic, hypoallergenic and biodegradable wipe. Lubricant should be applied to moving parts as needed to maintain easy folding and adjustment.

Corrosive substance such as salt water should be avoided at all times. If exposed the frame should be wiped off with a moist towel as soon as possible. Water and a soft cloth are sufficient for basic cleaning.

Cleaning of wheels and brakes

Wheels and locks should be kept free of dirt or mud after each use. Foreign objects could cause interference with moving parts. Wipe wheels and locks with a moist cloth as needed.

IMPORTANT INFORMATION**Cleaning of fabric cover**

Seat and back upholstery can be easily removed, washed, air dried and reattached to the chair. Use standard detergent to wash fabric.

Cushioned parts can also be removed from chair, washed or wiped off with a moist cloth. Before reattaching them to the chair, make sure they are completely dry. Use mild detergent to wash fabric. Use gentle cycle and cold water. Hang Dry.

Parts that are permanently attached may be wiped thoroughly with a moist cloth. Allow sufficient time to dry before placing user in chair.

**Storage**

Store your chair in a clean, dry area and avoid extended exposure to heat or moisture. After extended storage periods, and before reuse, the entire chair needs to be serviced, cleaned and disinfected.

Reuse

Your Convaid chair should undergo wipe-down disinfection before reuse.

Please use a non-toxic, biodegradable disinfectant solution suitable for surface disinfection. Please check the following components for intactness before operation. (see MAINTENANCE CHART)

Repair or replace if necessary:

- Wheels (tread pattern), air pressure if applicable
- Frame
- Seat and back upholstery
- Wheel lock operation
- Bearings and axles: check wear and tear/ lubrication
- Straight-running stability of wheels
- Attachments

Repairs

User: The user can replace easily removable parts or accessories, e.g. foot supports, heel loops, all fabric items, hand grips, etc.

Manufacturer/Service Facility: Repair or replacement of permanently attached, worn or broken parts must be performed by a qualified service facility. Any individual part of the chair can be replaced. Contact the manufacturer/service facility for needed repairs. The chair should be packaged in the original or suitable shipping carton for return to the manufacturer/service facility. Ship via UPS.

IMPORTANT INFORMATION

Tools Required

- Tools needed include 3/8", 7/16", 3/8" or 2 adjustable wrenches with 3/4" capacity, Phillips head screwdriver 5/32"
- Allen wrench (included)

Spare Parts

If you need any spare parts for your chair, please visit or call the Convaid service dealer you purchased this chair from. If the part is not under warranty, you will receive an estimate of the cost and, if necessary, shipping instructions for the return of the chair for repairs.

Functional Tests

All four wheels should make contact with the floor. With the chair empty, push it forward on a smooth level surface with enough momentum to travel six feet (2 m). The chair should not veer to the left or right more than six inches (150 mm). Wheels should be free running. Following the fold/unfold instructions; the chair should fold/unfold smoothly without undue effort. All fasteners should be secure. Fasteners on moving joints should not be overtight. Seat fabric should not be wide-stretched or sagging. Positioning accessories should be correctly adjusted and secure.



EU Authorized Representative

R82 A/S
Parallelvej 3,
8751 Gedved, Denmark



Convaid Service Dealer

Please record the Convaid Dealer from which you purchased your chair:

Company: _____

Address: _____

Phone: _____ Website: _____

Contact: _____ Email: _____

Serial #: _____

Or contact Convaid Customer Service at
844 US Mobility (844-876-6245) (+1-310-618-0111) or
convaidsales.us@etac.com

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Warranty

Convaid warrants to the original retail purchaser of the Convaid product, that if any part thereof proves functionally defective in material or workmanship within the specified warranty period, such defective part will be repaired or replaced (at Convaid’s discretion) free of charge. Warranty service may be performed by Convaid service center or (at Convaid’s discretion) the factory.

Warranty Period

- Frame & X-Braces Five years
- Other components One year
- Fabric & webbing One year
- Sensiform cushionTwo years

This warranty does not cover normal wear and tear or damage caused by accident or misuse. To exercise this limited warranty, the user should first obtain a Return Authorization Number from Convaid’s customer service. The product must be delivered charges pre-paid to the factory or to an authorized service center, together with a copy of the original invoice.

THIS LIMITED WARRANTY EXCLUDES ANY CLAIM FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. ANY IMPLIED WARRANTY APPLICABLE IS LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO THE USER. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE THEREOF.

This warranty gives the user specific legal rights and the user may have other rights that vary from state to state. Warranty applicable in USA only, may vary in other countries.