

With transport option

Supplier: This manual must be given to the user/care giver of this wheelchair.

Rider: Before using this wheelchair, read this entire manual and save for future reference.



## *Centre of Gravity Tilt in Space Wheelchair*



# *Standard, Extra Wide & Paediatric*



Yes, you can.®

## *User Guide*

*Part No. 1536525 Issue 05*





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### Useful Symbols In This Manual

**WARNING!**

This symbol warns you of danger! Always follow the instructions to avoid injury to the user or damage to the product!

**EXPLOSION HAZARD!**

This symbol warns you of an explosion hazard, an example of which can be caused by excessive tyre pressure in a pneumatic tyre!

- *Always follow the instructions to avoid injury to the user or damage to the product.*

**NOTE:**

This symbol identifies general information which is intended to simplify working with your product and which refers to special functions.

**REQUIREMENTS:**

This symbol identifies a list of various tools, components and items which you will need in order to carry out certain work.

**TRANSPORTATION:**

This symbol identifies important information relevant to transporting your wheelchair in a motor vehicle.

## Introduction

Thank you for purchasing your Freedom Designs, Inc. **CGX™** wheelchair. The **CGX™** combines state-of-the-art technology with durability and function to meet all of your changing needs. This operating manual will provide you with a detailed guide for proper use as well as instructions on the care of your new **CGX™** wheelchair. Please follow the instructions carefully, paying special attention to the 'Safety Precaution' section.

It is important that you read the entire operating manual before operating the **CGX™**. After consulting your operating manual, if you have further questions, please contact one of our authorised dealers.



### Note for Customers

INVACARE provides a wide range of wheelchairs to meet the requirements of customers. However, the decision on the type of model to be prescribed rests exclusively with experienced advisors.

INVACARE or its appointed representative shall not be held responsible if a wheelchair is used that is unsuitable for the user's level of disability, if the wheelchair itself is incorrectly used or if a problem arises due to poor maintenance.

The information set out in this manual may be modified without prior notice. This manual contains copyright information. All rights are reserved. No part of this document may be photocopied or reproduced without prior written agreement from INVACARE or its appointed representative.

**This manual gives details of all the options of the CGX™ wheelchair. It describes the options, operation and adjustments that may be required. However, your INVACARE retailer will be able to give you further information and demonstration.**

## **Warranty Terms & Conditions**

### **Standard INVACARE Terms**

This is to certify that your wheelchair is warranted by INVACARE Ltd. for a period of 1 year for parts, 2 years for hardware and frames.

1. Only INVACARE chairs purchased at full price are warranted against defective workmanship and materials.
2. If a defect or fault is discovered the INVACARE dealer from whom the wheelchair was obtained should be notified immediately.
3. The manufacturer will not accept responsibility for damage caused by misuse or non-observance of the instructions set out in the user manual.
4. During the period of the warranty any parts that have become defective, due to faulty workmanship or materials, will be renewed or repaired without charge by the INVACARE dealer.
5. The warranty will be invalid should any unauthorised alteration be made to the equipment.
6. The purchaser's statutory rights under the Consumer Protection Act are not affected.



### **Limitation of Liability**

This warranty does not extend to the consequential costs from fault clearance, in particular freight and travel costs, loss of earnings, expenses, etc.

- Natural wear and tear.
- Inappropriate or incorrect use.
- Defective assembly or setting-up by the purchaser or third parties.
- Defective or neglectful treatment.
- Use of unsuitable spares.

### Intended Use

The **CGX™** manual wheelchair has been designed to provide mobility and comfort for persons with impaired mobility.

The wheelchair has been designed to be used by a seated user with a carer/ attendant in both indoor and outdoor environments.

The wheelchair has, in its standard format, been designed to accommodate users who weigh up to a maximum weight of 90kg on a chair width from 10" to 18", and 136kg on a chair width from 18" to 22", have all limbs intact and have sufficient upper body strength to maintain a safe position within the wheelchair without the addition of supporting aids.

Adaptations from the standard wheelchair format are available to accommodate users who do not meet the above criteria but these will only be considered after a suitable risk assessment has been carried out by the product prescriber. For example, a user with either a full or partial amputation or other condition, which affects the natural centre of gravity will need to have a stability evaluation to minimize the risk of inadvertent tipping.

The wheelchair should only be used in accordance with the safety advice given within this user guide. Failure to follow the recommended advice within this user guide could lead to personal injury.

No claims are made that the product will medically improve the circumstances or condition of the user.

## Safety & Operating Limits

### Stability and Equilibrium

To ensure that the wheelchair remains stable and is manipulated correctly, you must always maintain good equilibrium. Many actions cause the user of a wheelchair to reach out, lean over or move about within the wheelchair and outside it. These actions will change your centre of gravity and weight distribution of the wheelchair. Your wheelchair has been designed to remain stable for normal everyday use if it is used correctly taking the precautions recommended in this manual.

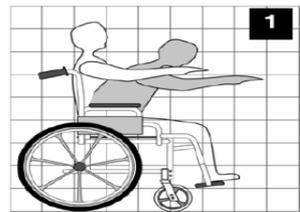
### Weight Limit

The maximum user weight limit is 90 kg on a chair width from 10" to 18", and 163kg on a chair width from 18" to 22".

However, the wheelchair user's level of activity is important. For example, an active user weighing 75kg may subject the wheelchair to more stress than a less active user weighing 114kg. We recommend very active wheelchair users to choose an appropriate design of wheelchair. Your INVACARE approved distributor will advise you on the best model.

### Reaching For An Object From A Wheelchair

The limitations on reaching out from a wheelchair shown in **Figure 1** have been produced using a representative sample of wheelchair users. Only the arms should extend beyond the seat of the wheelchair. For safety reasons, the body and head should remain within the wheelbase.



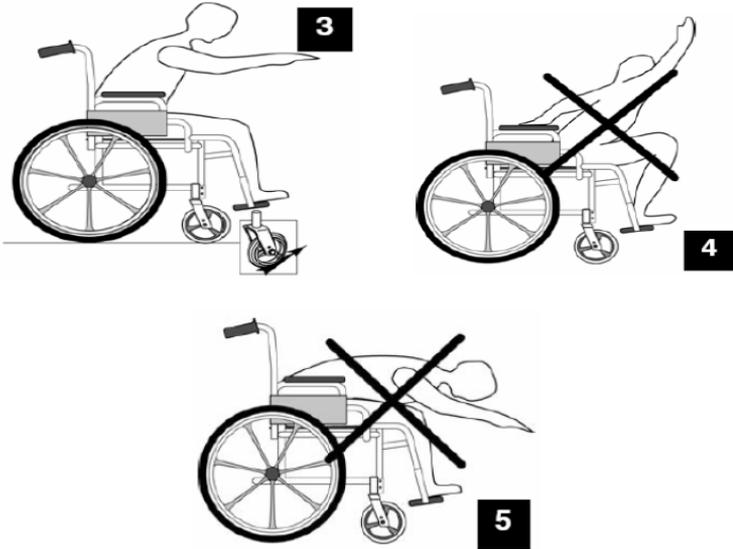
Position the castors to give the longest possible wheelbase (**Figure 2**). Lock the manual brakes on the rear wheels.



## Leaning Forwards

(Figures 3, 4, 5)

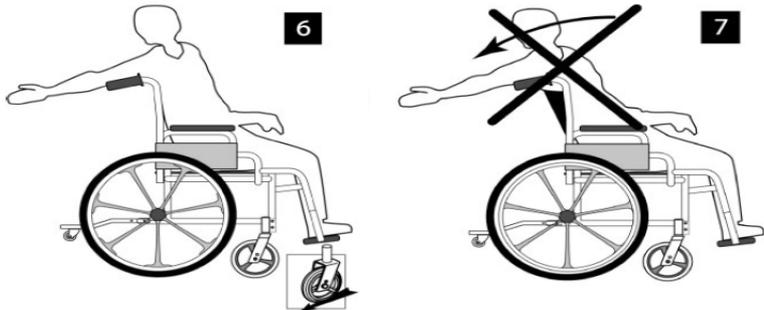
Move the wheelchair as close as possible to the object you wish to reach. Only reach out for objects that are within arm's length in a normal sitting position.



## Leaning Backwards

(Figures 6, 7)

Move the wheelchair as close as possible to the object you wish to reach. Only lean back for objects that are within arm's length in a normal sitting position.





## Transferring To Other Seats

### Leaning To One Side

(Figure 8)

This is a dangerous manoeuvre as it is easy to tip sideways.

To move up to an object and lean over, you must use the castors as a means of keeping the wheelchair stable and balanced.

For your safety, it is essential to be in the correct position.

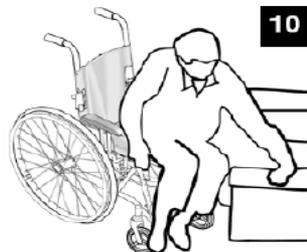


Do not try to pick something up from the floor if this would upset your balance.



It is possible to move from and to a manually propelled chair if the following guidelines are followed. INVACARE does not recommend any particular method for transferring: This is the responsibility of a medical advisor who should consider your level of disability and type of wheelchair. When transferring, either to get out of or return to your wheelchair, make sure that the gap between the two seats is as small as possible.

(Figures 9, 10)



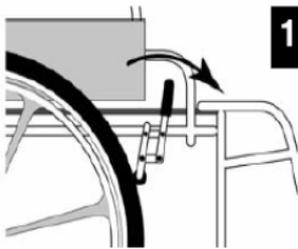


When transferring, either to get out of or return to your wheelchair, make sure that the manual brakes on the rear wheels are on to prevent the wheels moving (**Figure 11**).

Turn both castors towards the seat to which you wish to move. Lift up the footplates (**Figure 12**).



Do not stand on the footplates.

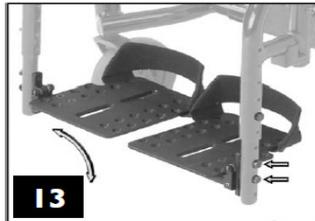


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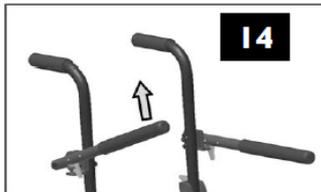
12

If possible, swing the legrest hangers out to the side to clear the passage (**Figure 13**).



13

If possible, flip up the armrests on the side between the wheelchair and the other seat (**Figure 14**).



14



**Note:** Never stand on the footplates (**Figure 15**).



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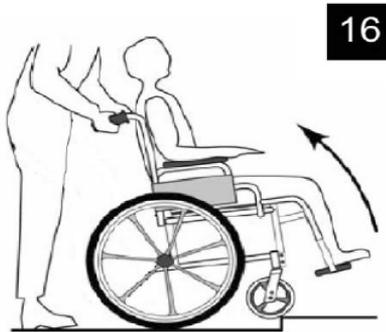


## Tilting The Wheelchair



To tilt the wheelchair (**Figure 16**), a second person should grip the handle firmly. Warn the user of the wheelchair before tilting it and remind him/her to lean backwards. Check that the user's feet and hands are clear of all the wheels. Push smoothly until the wheelchair is at the point of equilibrium. At this stage, the helper will feel a difference in weight distribution. Turn the wheelchair in the direction required and negotiate the obstacle.

Lower the front of the wheelchair smoothly, holding the handles firmly. Do not lower the wheelchair suddenly for the last few centimeters before returning to the normal position, this may cause discomfort.



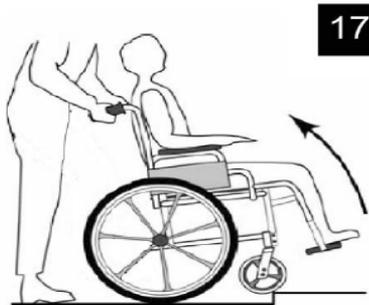


## Kerbs, Or Obstacles 30mm To 50mm High

### Method 1 - Negotiating the obstacle forwards

(Figure 17)

The helper should tilt the wheelchair until the castors have passed over the kerb. Move the wheelchair forwards and lower the castors gently onto the pavement. Push the wheelchair until the rear wheels touch the kerb. Lift and push until the rear wheels have mounted the kerb. Do not just lift by the handles on the backrest.



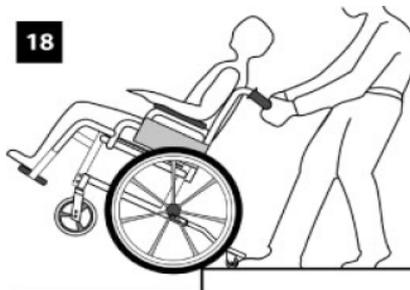
### Method 2 - Negotiating the obstacle backwards

(Figure 18)

The helper should stand on the pavement and turn the wheelchair until the rear wheels are against the kerb. Tilt the wheelchair backwards to the point of equilibrium and, in a continuous movement, pull the wheelchair until the rear wheels mount the kerb and pass onto the pavement. Do not lower the castors to the ground until you have pulled the rest of the wheelchair sufficiently far to clear the kerb.



Note: Folding backs should always be checked to ensure they are engaged.





## Steps, Stairs Or Obstacles Over 50mm High

We recommend that you take very great care when taking a wheelchair up or down stairs. Two people are required for this.



### ADVICE TO SECOND OR THIRD PERSONS:

Make sure that you get hold of fixed, non-removable parts only!

Using the following procedure for going upstairs (**Figure 19**): Tilt the wheelchair to its point of equilibrium. One helper (at the back) holds the wheelchair up against the first step, gripping the handles firmly to lift. The second helper, holding a firmly fixed part of the front frame, lifts the wheelchair above the stairs and holds it while the first helper places one foot on the following step and repeats the operation. The wheelchair must not be lowered until the last step has been negotiated and until the chair is clear of the stairs.



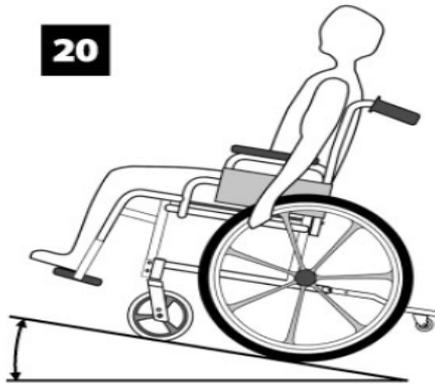
### Escalators

Do not use an escalator when moving a wheelchair from one floor to another. This might cause serious injury.

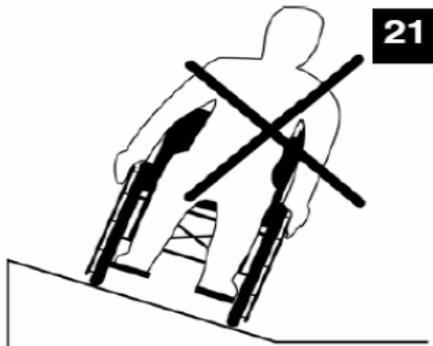


## Upward & Downward Slopes (Operating Limits)

Do not attempt to go up or down slopes greater than 10% without assistance (Figure 20).



Always go straight up and down slopes otherwise the wheelchair might overturn (Figure 21).



## Summary Of Safety Instructions

Summary of instructions for use for improved safety:



- User **weight limit** (including accessories): 90kg on a chair width from 10" to 18", and 136kg on a chair width from 18" to 22".
- **Do not try** to reach objects if you have to move forward on the seat.
- **Do not try** to reach objects on the ground if you have to lean down beyond the safety limits.
- **Do not lean** too far back to reach objects behind you: you may tip over.
- **Do not move** your weight, or your sitting position in the direction in which you wish to go: you may tip over.
- **Always apply both manual brakes** before trying to get out of or back into the wheelchair.
- **The manual brakes are not designed for slowing you down.**
- **Do not try** to stop a moving wheelchair using the manual brakes.
- **Do not use** an escalator for moving a wheelchair from one floor to another. (This may cause serious injury).
- **Do not use** your wheelchair if the tyres are not inflated to the correct pressure shown on the side.
- **Do not over-inflate** the tyres. Failure to comply with these instructions may cause the tyre to burst and cause bodily injury.
- **Carry out** the regular checks recommended in this guide and by your INVACARE approved retailer.
- **Use** your wheelchair with respect for other people.
- **Do not use** your wheelchair as a transport seat in a vehicle. unless it is not practical for the user to be transferred (Refer to page 31 - Transport).





### General Descriptions

Each wheelchair is specially designed to meet the requirements of its user. This manual describes how to adjust the chairs in this range, enabling you to find out how to adjust the wheelchair to suit your needs.

#### General Descriptions

Your wheelchair has a number of main parts which will be mentioned throughout this manual. These parts are described below.

Support is provided by the **backrest, seat and armrests**.

The **chassis** comprises of the **side frames** and **cross brace**. This is the essential supporting framework of the wheelchair on which all the other parts are mounted.

The **front castors** comprise of the fork and wheels. The front wheels provide contact with the ground and the rotating forks steer the chair.

**Manual brake** - The manual brake is used to park the wheelchair.

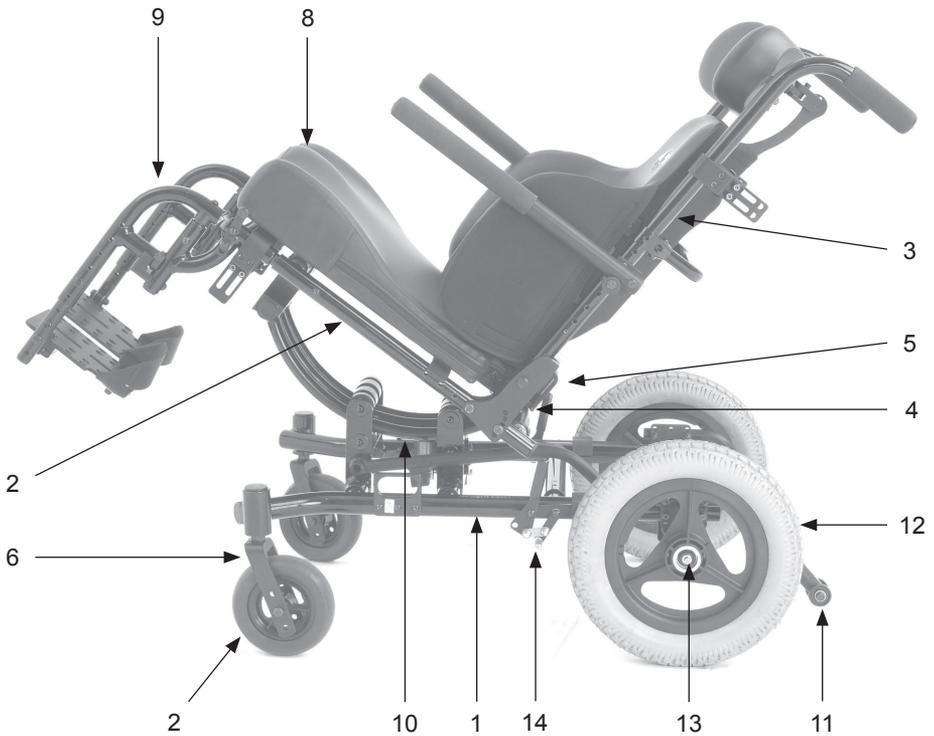
**Swing away footrest support** and **leg rest** - These are connected to the chassis and can be swung away to make transfer easier to and from the wheelchair.

The **footplate assembly** comprises of the **adjustable tube** and **foot plate**. These support your feet.

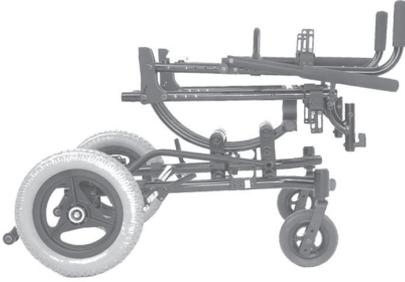
The **heel support strap** or **calf support strap**. These two straps support your feet or legs in the best position.

These parts are illustrated on the following page.

# Freedom CGX™

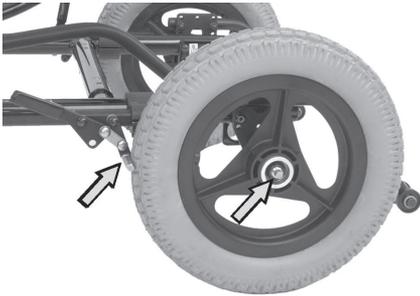


- |                               |                        |
|-------------------------------|------------------------|
| 1. Base Frame                 | 8. Seating             |
| 2. Seat Frame                 | 9. Footrest Assembly   |
| 3. Backpost                   | 10. Tilt Mechanism     |
| 4. Backpost Pivot Plate       | 11. Anti Tip Lever     |
| 5. Backpost Trigger Mechanism | 12. Rear Wheel         |
| 6. Castor Wheel               | 13. Quick Release Axle |
| 7. Castor Fork                | 14. Wheel lock         |



For ease of transporting and lifting, the chair back can easily be unfolded and folded.

Always engage the wheel locks by pushing forward or pulling back on the levers before unfolding the chair.



1. Place wheels on quick release axles and push into axle receiver on frame until quick release push button “pops out” and wheels are secure.

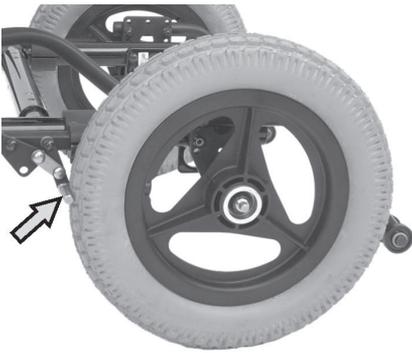
2. Set the wheel lock on each side.



3. Unfolding the back assembly is accomplished by grasping the push handles or straight back posts and pulling them to an upright position where they will lock into place.



4. Push the flip back armrests down to the flat position



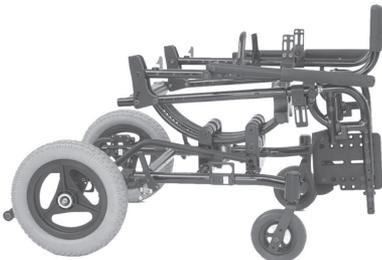
1. Set wheel locks.



2. Flip back the armrests to the upright position.



3. Pull up on the trigger mechanism for the backposts and push the backposts to the flat position over the seat rails.





## Anti-Tip Device

Flip-up, removable anti-tip levers come standard on the **CGX™**.

The anti-tip levers are preset at the factory. The anti-tips may be adjusted vertically (see “Anti-Tip Adjustment”, Page 26). They can also be flipped up out of the way or removed.

**To flip the anti-tip levers up**, push in on the button shown at left. Rotate the lever inward and upward. The lever will snap into place in the upward position. Reverse procedure to place the anti-tips in the lowered position for use.

**To remove the anti-tip levers**, push in on the button at the top of the bend and pull backward. The anti-tip will slide free of the frame.



### **Warning:**

***Under normal use, anti-tip devices will prevent the wheelchair from tipping over backward. Anti-tip devices are to stay on the chair, in the lower position shown, when in use and should not be altered or disabled.***

## Wheels and Tyres

The **CGX™** wheelchair offers the following tyre options:

12”, 16” and 18” (check prescription form for options).

Wheels may be removed from the chair by releasing the quick release axles. (See quick release axles—Page 22)

Check pneumatic tyres weekly for proper inflation level listed on the tyre sidewall. For wheel lock effectiveness, proper tyre inflation must be maintained.

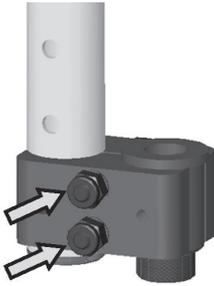
No-flat inserts are available for the pneumatic mag wheels.



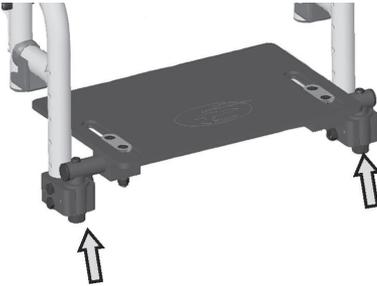


### Angle Adjustable Footboard

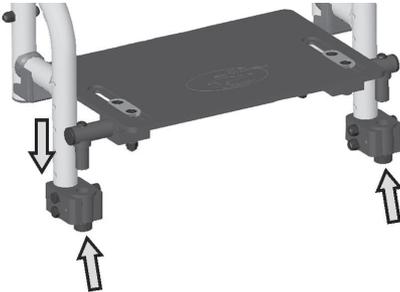
1. To attach the footboard to the frame, place the footboard clamps on the frame. Set the clamps at the desired height. Insert the receiver into the clamps and tighten the two (2) hex head screws on each side.



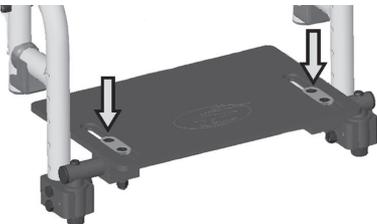
2. To remove the footboard for transfer, unscrew the knob assemblies underneath the receivers. Lift the footboard upward, out of the receivers.



3. To attach the footboard after transfer, align the footboard fittings into the receivers. Turn the knobs on each side to tighten.



4. To change the angle of the footboard, use an allen key and loosen the flat head screws on the top of the footboard. When the desired angle or depth is reached, tighten both screws.





### Angle Adjustable Footboard.....

- To change the height of the footboard on the frame, loosen the two (2) hex head screws on footboard frame clamps. Set the desired height and tighten.



**Warning:** *In all footplate and hanger adjustments, be sure that all screws are tightened securely for your safety.*

### Individual Flip Up Footplates

Adjustment of the individual flip-up footplates are as follows:

- The individual footplates easily flip by lifting from underneath the footplate to flip up or push down on the footplate to flip down.

To adjust the height of the footplate :

- Remove the hex head screws on the side of the hanger. Seat the footplate at the desired height. Insert the screws through the corresponding holes in the hanger tube and tighten.
- To adjust the angle of the flip-up footplate, loosen the lock nuts under the footplate. Set the foot plate at the desired angle and re-tighten nuts.

### Quick Release Axle

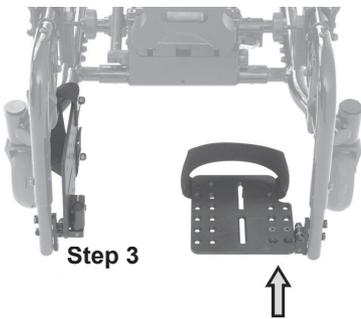
The **CGX™** is equipped with double lock quick release axles that release with the push of a button. This double lock quick release mechanism allows the large drive wheels to be easily removed for transportation or storage.

To remove the rear wheel:

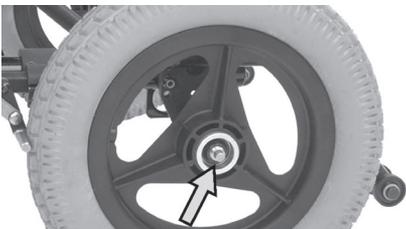
- Unlock the wheel lock.
- Grasp the frame with one hand.
- With the other hand, squeeze the quick release button.
- The wheel will then pull off easily.



Steps 1 & 2

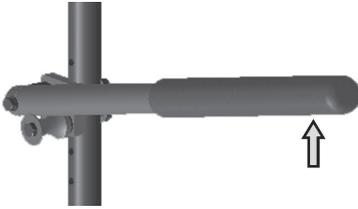


Step 3



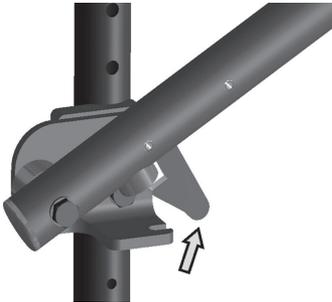
**⚠ Warning: ⚠**

*The axle is not properly locked until the outside quick release button pops out to its fully extended position.*



### Flip Back Arm

The **CGX™** is shipped with flip back armrest as standard equipment. The flip back armrests are non removable and are available in either locking or non-locking.



### Locking Flip Back Arm

To flip the arm back, push the trigger mechanism forward as shown and lift arm upward.



### Castors

The **CGX™** is shipped with 76mm (3"), 102mm (5"), 152mm (6"), or 178mm (7") polyurethane castors with castor forks or a variety of 127mm (5") or 152mm (6") wheels.

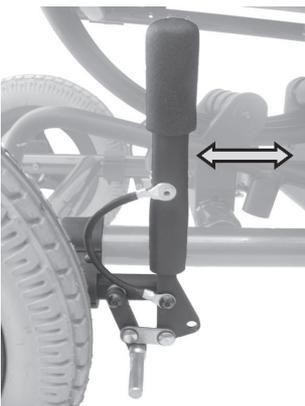
### Wheel Locks

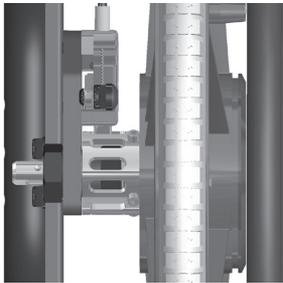
The **CGX™** comes standard with push or pull to lock wheel locks or hub locks.

#### Push or Pull to Lock Wheel Locks

To lock wheels in place:

1. Grasp the lever of the wheel lock with your hand.
2. Push lever forward (push to lock) or pull lever back (pull to lock) to engage the wheel lock. Reverse procedure to release the lock.



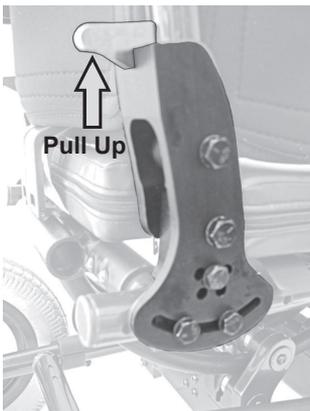


**Caution:**

***Always set the wheel locks when entering or leaving the wheelchair. Wheel locks are not designed to slow the wheelchair down when it is moving. Wheel locks hold the wheelchair in place when it is at a complete stop.***

**Wheel Lock Options**

The **CGX™** also offers the option of wheel lock extensions.



**Adjustments**

**Folding Back**

The **CGX™** comes standard with a folding back.

1. To fold the back down, pull upward on the trigger while pushing backposts forward toward seat.
2. To place the backpost to the upright position, pull backposts up until trigger snaps into place.

**Note:** *The backposts fold down completely when using a solid seat and back. When using a sling seat and back the backposts will only fold partially.*



**Backpost Angle Adjustment**

The angle and depth of the backposts may be adjusted independently. To adjust the back angle, remove the top screw (A). Tilt the back to the desired angle, aligning holes in the back hinge with threaded holes in back mount bracket. Re-install screw and tighten securely.

**Backpost Depth Adjustment**

Remove (2) screws, washers and nuts (B). Slide back hinge assembly to the new position, aligning holes in mount bracket with holes in frame tube. Re-install hardware and tighten securely.



### Flip Arm / Locking Arm

To adjust height of armrests, loosen and remove the bolts and nuts holding the arm to the backpost tube. Align holes in arm with holes in backpost tube at desired height. Re-assemble with bolts and nuts.



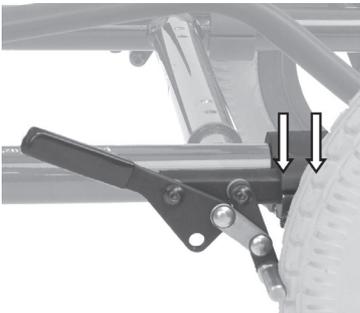
### Castor Fork Adjustment

Interchanging castors can easily be done with dual hole castor forks. Currently, 3", 4" 5", 6" & 7" castors are available for use (check prescription form for options). To adjust, loosen the bolt and remove the castor. Change the castor and/or position the castor upward or downward in pre-drilled holes on the castor fork. Replace the bolt and tighten securely.

*Note: When changing the size of the castor wheel, it will also be necessary to change the size of the rear wheel in order to keep the wheelchair frame parallel with the floor.*

### Wheel Lock Adjustment

When the rear wheel is repositioned, it is important that the wheel lock is readjusted also.



1. Adjustment can be made by loosening the 1/4-20 x 1" (25.4mm) button head screws and sliding the wheel lock assembly along the frame tubing so that the wheel lock contacts the tyre in the locked position. Continue to adjust until the knurled grip handle embeds into the tyre approximately 6.35mm (1/4") when in the locked position. Tighten the screw until wheel lock is snug to frame tube.

### **Warning:**

***Wheel locks are not designed to slow the chair down when it is moving. When the chair is stopped, engaging properly adjusted wheel locks will prevent the Drive wheels from turning.***



## Anti-tip Lever Adjustment

1. Remove the screw, nut and washers that attach the roller assembly to the lever.
2. Align holes in roller assembly with holes in lever at desired height (recommended at 38.1mm (1-1/2") to 50.8mm (2") off of the ground).
3. Re-install screw, washers and nut—tighten securely.



### **Warning:**

*Under normal use, anti-tip devices will prevent the wheelchair from tipping over backward. Anti-tip devices are to stay on the chair in the lowered position, at all times when in use and should not be altered or disabled.*



## Tilting the Freedom CGX™

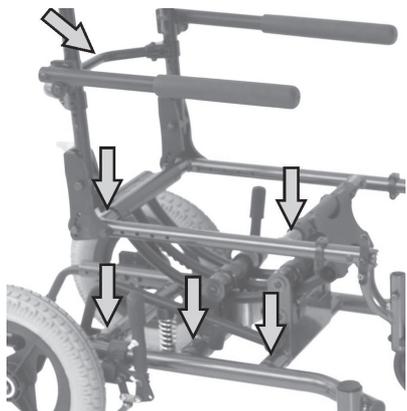
With the chair on a level surface:

1. Set the wheel locks.
2. Hold the handgrips with both hands.
3. Press down and hold the foot tilt lever with your right foot.
4. Push the back handles forward for less tilt or pull rearward for greater posterior tilt.
5. When the desired tilt is achieved, lift up on your foot to engage the tilt lock mechanism.
6. Set the lockout for the foot tilt lever after the desired tilt angle has been achieved.



### **Warning:**

*The locking pin must be installed whenever the chair is in motion.*



### Changing Frame and Seat Width

The seat and frame can be widened in 25.4mm (1") increments. The frame can be widened independently to allow for additional lateral stability.

#### To widen the frame:

Remove the screws (x 6) located at the lower arrows (shown at left) under the frame cross members on each side. Slide the frame out to desired width. Align holes in cross members with holes in telescoping frame tubes. Re-install the screws and tighten securely.

#### To widen the seat and back:

Remove the (x 4) screws at the two (2) center arrows on underside of each side of the seat and the one (1) screw on the back spreader bar at the top arrow (shown at right). Slide the frames out to desired width, align holes and re-install screws. Tighten securely.

### Cleaning

It is important for optimum performance to clean and maintain your **CGX™**. We recommend that the frame finish be cleaned with mild soap and water.

In order to operate the **CGX™** properly and safely, routine maintenance will extend the life and efficiency of your wheelchair.

### Safety Inspection Checklist

Follow these maintenance procedures for optimum performance of your **CGX™** wheelchair:

1. Check to see that the wheelchair rolls straight.
2. Tyres: Check for flat spots, wear and proper inflation.
3. Wheel lock:
  - a. Check to see that the locks engage easily.
  - b. Check that the locks are free of wear
  - c. Check to see that the locks do not interfere with the tyres when rolling.
4. Ensure that all fasteners are secure.
5. Castors: Inspect axle for proper tension. Spin the castor. The castor should spin freely and come to a gradual stop.

### Storage

The **CGX™** folds down to a small unit and the rear wheels may be removed. We suggest when storing the wheelchair, that it be stored in an indoor, cool and dry area.

A list of authorised repair facilities may be obtained from:

Invacare UK Ltd.  
 Pencoed Technology Park  
 Pencoed  
 Bridgend  
 CF35 5HZ  
 Tel: 01656 776222  
 Fax: 01656 776220  
 E Mail: [ordersuk@invacare.com](mailto:ordersuk@invacare.com)

Invacare Ireland  
 Unit 5, Seatown Business Campus  
 Seatown Road  
 Swords  
 County Dublin  
 Ireland  
 Tel: + 353 1 8107084  
 Fax: + 353 1 8107085  
 E Mail: [ireland@invacare.com](mailto:ireland@invacare.com)  
 Web: [www.invacare.ie](http://www.invacare.ie)

### Trouble Shooting - Mechanical

Initial adjustments should be made to suit personal body structure/user capability and preference. Thereafter, follow these maintenance procedures:

Chair Veers Left/Right	Sluggish Turn/ Performance	Castors "flutter"	Squeaks & Rattles	Solutions
<b>X</b>	<b>X</b>	<b>X</b>		If pneumatic, check tyres for correct and equal pressure
<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	Check for loose stem nuts/bolts
	<b>X</b>		<b>X</b>	Check that both castors contact ground at the same time

Looseness in Chair	Chair "3 Wheels"	Solutions
<b>X</b>		If pneumatic, check tyres for correct and equal pressure
	<b>X</b>	Check for loose stem nuts/bolts

## Checking The General Condition

For maintenance operations, consult your distributor who has all the necessary information.

Ask your distributor to annually inspect your wheelchair thoroughly and carry out in depth maintenance. Regular maintenance allows defective or worn parts to be identified and improves the normal operation of your wheelchair.

The following table shows what to check when the wheelchair is delivered, each week, each month and at 6 monthly intervals.

<b>Checks to be Made:</b>	On delivery	Weekly	Monthly	6 Monthly
<b>1. General:</b>				
The wheelchair moves in a straight line (no resistance or drag)	<b>X</b>	<b>X</b>		
<b>2. Manual brakes:</b>				
The manual brakes do not touch the tyres when moving	<b>X</b>		<b>X</b>	
The manual brakes are easy to operate	<b>X</b>			<b>X</b>
The articulations are not worn and do not show signs of play	<b>X</b>		<b>X</b>	
<b>3. Frame work</b>				
Examine them to check that they are not worn or bent	<b>X</b>			<b>X</b>
<b>4. Clothing protectors/armrest upholstery</b>				
Check that all fixings are in position and tightened	<b>X</b>			
<b>5. Armrests</b>				
Firmly attached but easy to remove	<b>X</b>		<b>X</b>	
<b>6. Arm Pads/Foam</b>				
Check that the padding is in good condition	<b>X</b>			<b>X</b>
<b>7. Seat and backrest upholstery</b>				
Check that it is in good condition	<b>X</b>	<b>X</b>		
<b>8. Castors</b>				
Check the axle to ensure that it is correctly tightened, by turning the castor. The castor should stop gradually	<b>X</b>	<b>X</b>		
<b>9. Fork / Fork tube</b>				
Check that all the fittings are in place	<b>X</b>	<b>X</b>		
<b>10. Pneumatic and solid tyres</b>				
If the wheelchair has pneumatic tyres, check that they are correctly inflated (the pressure is shown on sidewall)	<b>X</b>	<b>X</b>		
If the wheelchair has solid tyres, check the running surface	<b>X</b>	<b>X</b>		

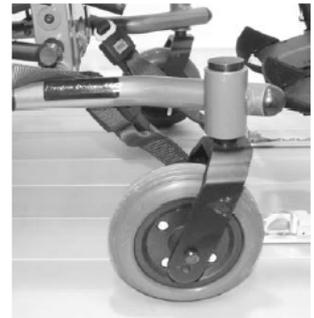
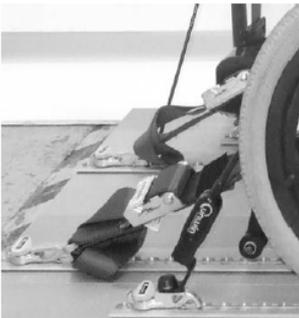


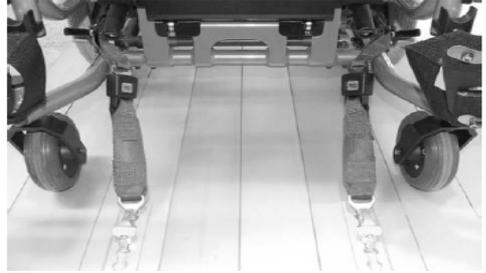
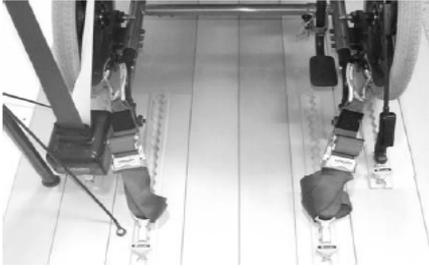
## Transport

INVACARE always advises that a wheelchair secured in a vehicle will not provide the equivalent level of vehicle seating systems and recommends transfer to the vehicle seating, but also recognises that it is not always practical for the user to be transferred. In those cases where it is considered that the user must be transported whilst within the wheelchair, then the following advice should be followed.

Note: The wheelchair user safety during transportation largely depends upon the diligence of the person securing the tie downs and passenger restraints.

1. Seek confirmation from the transporter that the vehicle is suitable designed and equipped to transport a passenger seated in a wheelchair.
2. Any part of the wheelchair (accessories, etc.) that can be easily detached should be removed and stored in the vehicle luggage hold during transportation.
3. The wheelchair should always be transported in a forward facing direction. Rearward facing is only acceptable if the occupant's head and back can be supported by a suitable bulkhead.
4. INVACARE recommends that the wheelchair be secured by 4-Point webbing tie down systems as manufactured by Unwin Safety Systems or Koller Safety Restraint Engineers.
5. When attaching tie down systems to the wheelchair it is imperative these are fixed onto the main frame of the wheelchair and not onto any attachments or accessories (not wheels, handrims, castors, footrests, anti tipping levers etc.). Tie down points are indicated by the tie down stickers in the correct areas.
6. The tie downs should be secured, as close as possible, at an angle of 45 degrees to ensure maximum effectiveness of the restraint in all directions.
7. The occupant should be restrained independently of the wheelchair by a suitable approved passenger safety belt or harness. Pelvic restraint or lap belts supplied with the wheelchair may be used in addition to but never as a substitute for approved passenger restraints.





## Product End Of Life

Even though your wheelchair has been designed to provide a long and trouble free life it is inevitable that wear, tear and usage will eventually render the product unusable.

- INVACARE recommends that the average usable life of this product is five years, providing the product has been correctly maintained according to the manufacturer's recommendations.

When the time comes to replace your wheelchair please remember to dispose of the product responsibly and recycle any recyclable parts as mentioned in this user guide.

This product may contain substances that could be harmful to the environment if disposed of in areas (landfills) that are not appropriate according to legislation. The "crossed out wheelie bin" symbol (as shown) is placed on this product to encourage you to recycle wherever possible.

Please be environmentally responsible and recycle this product through your recycling facility at its end of life.



## Disposal

- The equipment packaging is potentially recyclable.
- The metal parts are used for scrap metal recycling.
- The plastic parts are used for plastic recycling.
- Disposal must be carried out in accordance with respective national legal provisions.
- If in doubt ask your local government authority for details of local waste management companies and recycling facilities.

### Contacting Invacare

For questions or support, please contact your authorised INVACARE dealer. They have the necessary experience, equipment, and knowledge concerning your wheelchair which enables them to offer you an all round satisfactory service.

Should you wish to contact us directly, we are at your service under the following telephone numbers:

#### European Headquarter:

Invacare International  
Sàrl, Route de Cité-Ouest 2, CH-1196  
Gland  
Tel: (41) (0)22 354 60 10  
Fax: (41) (0)22 354 60 11  
hqeurope@invacare.com  
www.invacare.co.uk

#### Sales Units:

##### Belgium & Luxemburg:

Invacare nv  
Autobaan 22, B-8210 Loppem  
Tel: (32) (0)50 83 10 10  
Fax: (32) (0)50 83 10 11  
belgium@invacare.com

##### Denmark:

Invacare AIS  
Sdr. Ringvej 39, DK-2605 Brøndby  
Tel: (45) (0)36 90 00 00  
Fax: (45) (0)36 90 00 01  
denmark@invacare.com

##### Deutschland & Eastern Europe

Invacare Deutschland GmbH  
Kleistraße 49, D-32457 Porta  
Wesfalica  
Tel: (49) (0)5761 75 40  
Fax: (49) (0)5731 754 191  
info@invacare.de

##### Aquatec GmbH

Alemannenstrasse 10, D-88316 Isny  
Tel: (49) (0)7562 7 00 0  
Fax: (49) (0)7562 7 00 66  
infor@aquatec.de

##### Ulrich Alber GmbH

Vor dem Weissen Stein 21, D-72461  
Albstadt-Tailfingen  
Tel: (49) (0)7432 2006 0  
Fax: (49) (0)7432 2006 299  
info@ulrich-alber.de

##### España:

Invacare SA  
c/Areny s/n, Poligon Industrial de  
Celrà, E-17460 Clerà (Gironà)  
Tel: (34) (0)972 49 32 00  
Fax: (34) (0)972 49 32 20  
contactsp@invacare.com

##### France:

Invacare Poirier SAS  
Route de St Roch, F-37230 Fondettes  
Tel: (34) (0)2 47 62 64 66  
Fax: (34) (0)2 47 42 12 24  
contactfr@invacare.com

##### Italia:

Invacare Mecc San s.r.l.  
Via dei Pini 62, I-36016 Thiene (VI)  
Tel: (39) 0445 38 00 59  
Fax: (39) 0445 38 00 34  
italia@invacare.com

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Invacare BV  
Celsiusstraat 46, NL-6716 BZ Ede  
Tel: (31) (0)318 695 757  
Fax: (31) (0)318 695 758  
mobility@invacare.com  
care@invacare.com

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Grensesvingen 9, Postboks 6230,  
Etterstad, N-0603 Oslo  
Tel: (47) (0)22 57 95 00  
Fax: (47) (0)22 57 95 01  
norway@invacare.com  
island@invacare.com

**Österreich:**

Mobitec Mobilitätshilfen GmbH  
Herzog Odilostrasse 101, A-5310  
Mondsee  
Tel: (43) (0)6232 5535 0  
Fax: (43) (0)6232 5535 4  
office@mobitec-austria.com  
austria@invacare.com

**Switzerland**

Mobitec Rehab AG  
Benkenstrasse 260, CH-4108  
Witterswil  
Tel: (41) (0)61 487 70 80  
Fax: (41) (0)61 487 70 81  
office@mobitec-rehab.ch  
switzerland@invacare.com

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Invacare AB  
Fagerstagatan 9, S-163 91 Spånga  
Tel: (46) (0)8 761 70 90  
Fax: (46) (0)8 761 81 08  
sweden@invacare.com  
finland@invacare.com

Dolomite AB  
Box 55, V. Götgatan 5, S-33421  
Anderstorp  
Tel: (46) (0)371 58 84 00  
Fax: (46) (0)371 170 90  
info@dolomite.se

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Unit 5, Seatown Business Campus  
Seatown Road  
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County Dublin  
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Tel: + 353 1 8107084  
Fax: + 353 1 8107085  
E Mail: ireland@invacare.com  
Web: www.invacare.ie

**United Kingdom:**

Invacare UK Ltd.  
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Pencoed  
Bridgend  
CF35 5HZ  
Tel: 01656 776222  
Fax: 01656 776220  
Email: uk@invacare.com  
Web: www.invacare.com



**Yes, you can.®**



Yes, you can.®

## User Guide

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