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User Manual

English

rea Focus™

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Confidence in posture solutions

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Contents

Product description
Rea™ *Focus*™

Rea™ Focus™ is a wheelchair with many adjustment options and accessories. To ensure that you benefit as much as possible from Rea™ Focus™ , and in order to do its options justice, the chair must be tested and adjusted by competent personnel. We hope that you have also received instructions for using your Rea™ Focus™ in everyday life.

The Rea™ Focus™ frame, legrests and hand rims are manufactured from high quality aluminium.
The telescopic backrest tubes and the inner part of the legrest tubes, are made from steel.
The seat is made of plastic and is easily cleaned. The cushion and backrest are made of either polyester or plush fabric.

This manual includes a description of the parts of the chair, simple adjustment options, how to use the Rea™ Focus™ safely and how to transport it. The manual must be read thoroughly before the chair is used.

Also included in this manual is a description of how the most common accessories are fitted and more advanced settings.

As the Rea™ Focus™ has many different components and accessories, the appearance of the accessories you have for your chair may differ from those shown.

Intended use

- Rea™ Focus™ is a manual wheelchair for those using their wheelchair over longer periods of time (several hours) and need support when sitting.
- Rea™ Focus™ is intended for users able to propel their wheelchair themselves but also for people needing aid by an assistant.
- Rea™ Focus™ has features and options to allow the user to be properly and comfortable seated for many hours per day.
- Depending on the size of the castors (125–200 mm) Rea™ Focus™ can be used indoors and outdoors. We recommend the use of the big castors for running on bumpy ground.
- Note that Rea™ Focus™ may tip when used on a slope, especially if the slope is 8° or more. Use anti tip devices (and common sense)!
- Rea™ Focus™ is designed to be used with a seat cushion placed on the seat. There is a risk of pressure sore without the use of a cushion.
- Rea™ Focus™ should always be equipped with footrests/legrests if the wheelchair is not propelled by the feet and have a low seat height.

SAFETY

This symbol means warning.

On the next page a number of points affecting your personal safety are shown. Read it carefully!

Invacare® is only responsible for product changes carried out by personnel who we authorise. We reserve the right to make any changes to equipment and specifications without prior notice.

Failure to comply with instructions given may result in personal injury and/or product damage.

- Check each of the following before using the wheelchair:
  - that all parts are attached securely to the frame
  - that all wheels and knobs are properly tightened
  - that all brakes and anti-tip devices function correctly
- Never lift the wheelchair by the detachable armrests, footrests, backbrace or by the adjustable push handles.
- Always apply the brake before getting into or out of the chair.
- Never stand on the footplates when getting into or out of the chair, because of the risk of tipping.
- Changing the seat angle gives an increased risk of tipping over.
- The handrims may become hot due to friction, which may cause injury to your hands.
- Use extensively the anti-tip device
- Remember that the effectiveness of the carer-operated brake is reduced in wet and slippery conditions, as well as when on a slope.
- Be careful to ensure that the drive wheels are securely attached.
- Drive wheels are not to be detached while the user is sitting in the chair.
- There is a risk of tipping and injury if the velcro straps on the backrest become too slack. Always check the tension.
- Be aware that if the wheelchair is left in the sun for a prolong period, certan parts like the seat and frame will be very hot.

DELIVERY CHECK

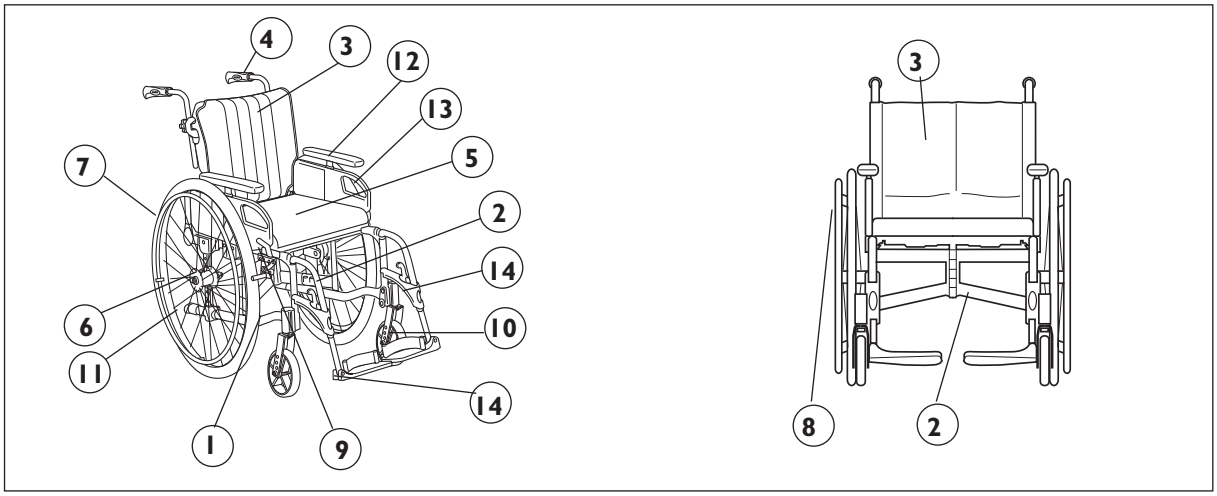
Check that all components comply with the delivery note. Any damage incurred during transport should be reported immediately to the delivery company. Retain all packaging until the transport company has inspected the consignment and an agreement has been reached.

DAILY PERFORMANCE CHECK

Check that the following parts are proprely assembled on the wheelchair:

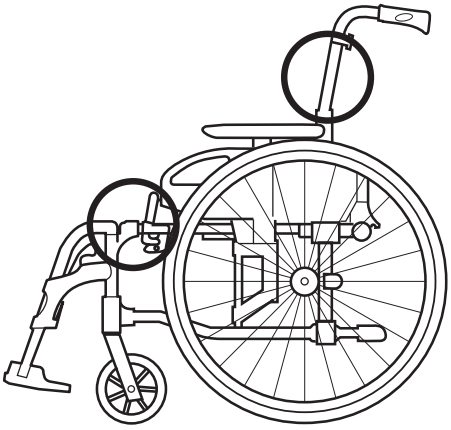
- Wheels
- Backrest
- Anti-tip device
- Push handles
- Footrests

Parts of the wheelchair

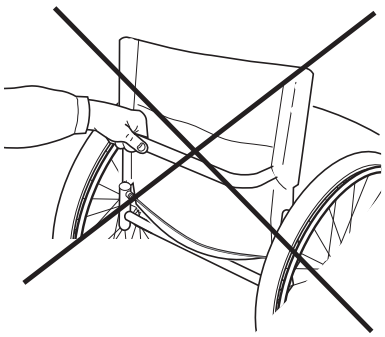


1. Frame (chassis)
2. Crossbrace
3. Backrest
4. Push handles
5. Seat
6. Rear wheel bracket
7. Rear wheel
8. Handrims
9. Brakes
10. Castors
11. Anti-tip devices
12. Armrests
13. Sideguards
14. Legrest

LIFTING THE WHEELCHAIR



Always lift the wheelchair by gripping the frame at the points shown in the diagram. Never lift the wheelchair by the removable armrests or the foot-rests. Ensure that the backrest and push bar are securely in place. Also read the chapter Safety instructions/propelling techniques.



Please observe that the backrest bar may not be used for lifting the wheelchair

Upholstery and frame colours

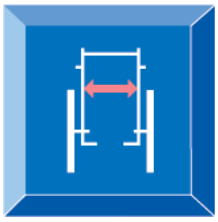
Upholstery	Black Jermima TR18, Grey Dartex TR23 Grey Plush TR32
Frame colours	Pearl Grey, Anthracite Black Shining Blue

Accessories

Rea™ Focus™ has a wide range of accessories and options.
*= Not for Rea™ Focus™ 150

Backrest	Sling * Tension adjustable with cover or backrest cushion Biangular backrest * Reclining backrest *
Seat	Firm seat plate with or without insert cushion
Seat cushions	5 cm standard Different versions of seat cushions
Legrests	80° + 90° legrests Legrests (angle-adjustable) Plaster legrest Amputee legrests Fixed footplate Angle-adjustable and depth-adjustable foot plate * Heel strap Footplate extender
Armrests	Flip-up armrests * Height adjustable armrest Hemiplegic armrest Autolock for armrests Long pad wide or narrow Short pad narrow
Castors	125–200 mm, pneumatic or solid, wide or narrow. 140, 180, 200 mm, pneumatic or solid (Focus™ 150)
Rear wheels	16", 20", 22", 24", pneumatic or puncture-proof
Brake	Tyre brake Malta Carer-operated Extended brake arm One arme brake *
Others	Several types of hand rim Spoke guard Anti-tip devices Reflectors Kit Table Tray Trunk supports * Wedges * Push handles external and height adjustable Pump Cane holder Step tube Pelvic Belt Head and Neckrest

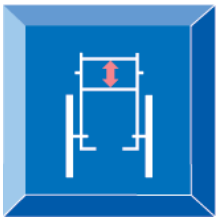
Technical data



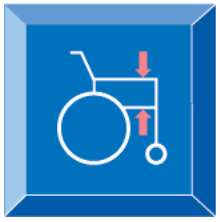
380/405/430/455/
480/505 mm

Low: 375–450 mm
High: 425–500* mm
Transit: 425-500 mm

Low: 365–490 mm
High: 415–540* mm
Transit 430-465 mm



380–780 mm

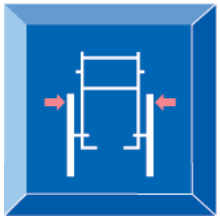


190–290 mm
Transit: 210 -385 mm

330–530 mm

0°–6°

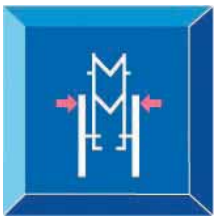
-6°–13°
0°–30°



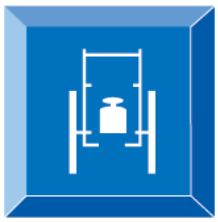
Seat width
+ 220 mm

745–1320 mm

900–1195 mm
Transit: 1080-1180 mm



320 mm
Transit: 310 mm



16.2 kg

max 135 kg
max 150 kg*

Transport weight
10 kg

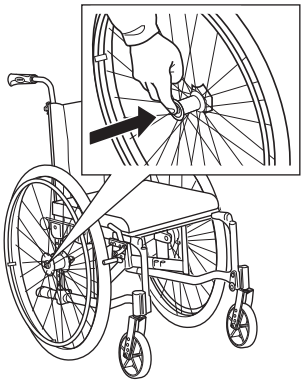
Crash test**

* Rea™ Focus™ Heavy Duty in seat width 53 cm.

** Our wheelchairs comply with ISO norm 7176-19 and have been tested in a basic configuration. The use in other configurations has not been tested. See section "Test report from dynamic safety restraint test", for test configuration. Wheelchair users should however transfer to the vehicle seat and use the vehicle installed restraint system whenever it is feasible.

Assembly

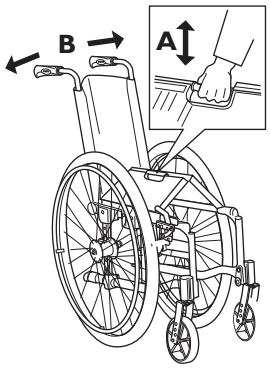
1.



1. Attach the rear wheels by pressing the button in the centre of the hub whilst simultaneously sliding the axle into the rear wheel position attachment of the positioning plate.

It is very important that you check that the locking pin has actually locked the wheel into position when the centre button has been released. Take hold of the wheels and try to detach them. This should NOT be possible.

2.



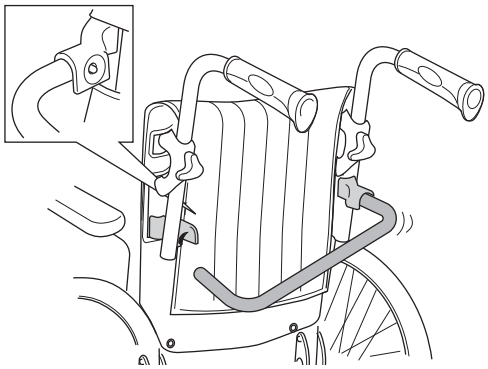
2. There are two methods of unfolding the seat.

A. Unfold the wheelchair by pushing the handle in the middle of the seat right down.

B. Lift the rear wheels slightly up and pull the push handles apart from each other. The seat plate falls down with a "click" sound.

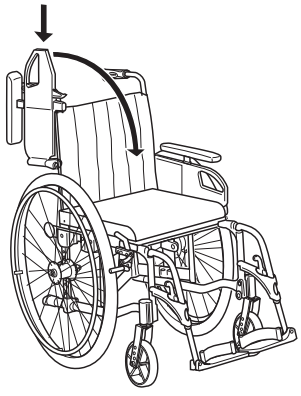
Be careful not to trap your fingers or part of the hand between the seat-halves!

3.



3. Fold up the backrest bar into its attachment. Note that the small knob should be locked in its hole.

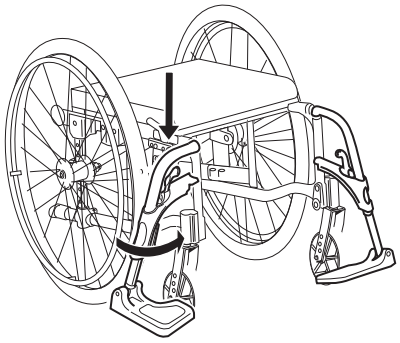
4.



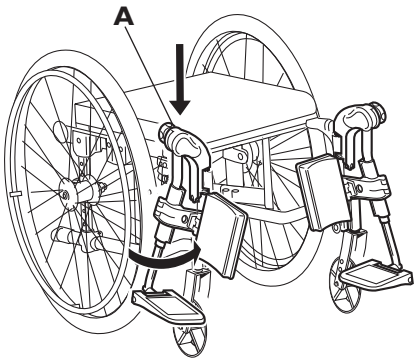
4. Insert the armrest by fitting it into the attachment on the backrest frame and then swing it down until it fits into position.

Do not place any fingers on the seat frame. If your chair has detachable armrests, just press them in the receiver.

5a.



5b.



5. Footrests/legrests

The wheelchair can be equipped with either footrests or legrests.

5a. Footrests

Attach the footrests by pushing the tube at the upper part of the footrests down into the tubes on the wheelchair. You must angle the footrests outwards when inserting them.

Lock the footrests by turning them inwards. The footrests are automatically locked so there is no risk of them coming off the wheelchair.

⚠ Be careful not to trap your fingers between frame and footrest.

5b. Legrests

Attach the legrests by pushing the tube at the upper part of the legrests down into the tubes on the wheelchair. You must angle the legrests outwards when inserting them.

Lock the legrests by turning them inwards. The legrests are automatically locked so there is no risk of them coming off the wheelchair.

The legrest angle is adjusted by the knob (A).

⚠ Be careful not to trap your fingers between frame and legrest.

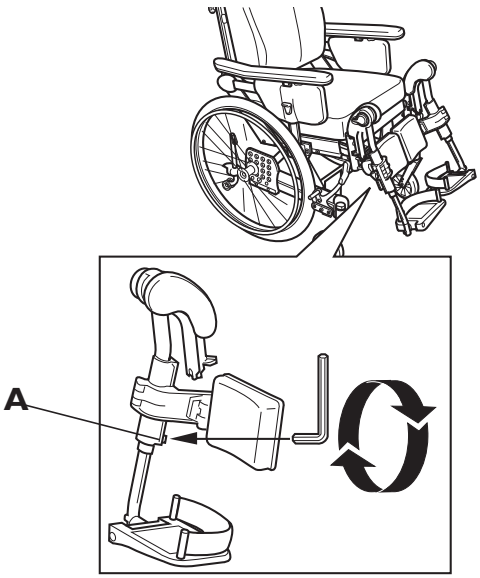
The Brake lever

Please note the brake lever handle will have a certain amount of free play. Without activating the brake, the lever will fold up automatically when the legrest has been moved to its outward position. To activate the brake just push the lever forwards.

Settings

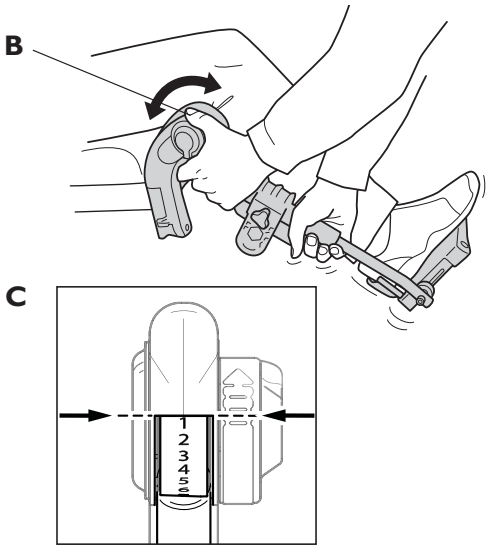
ANGLE ADJUSTABLE LEGRESTS

1.



Tools: 5 mm Allen Key

2.



Angle adjustable legrests support the legs and reduce pressure. The legrests can be used for bandaged legs, but not for legs in plaster casts. The legrests must always be fitted with calf pads, footplates and heel straps.

It is important to adjust the height and angle of the legrests to obtain a good seating position.

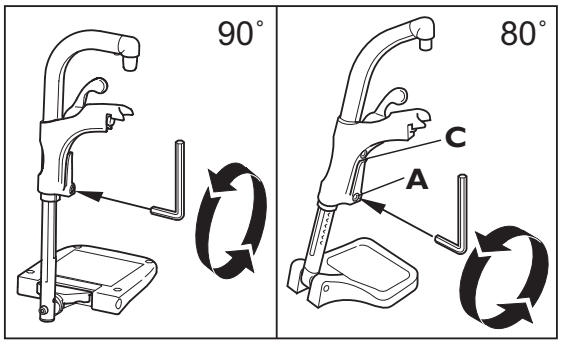
1. **Height adjustment**
   Loosen screw (A) with an Allen key. Adjust the legrest into a suitable height and the screw is caught by one of the recesses on the legrest tube. Then retighten the screw.

2. **Angle adjustment**
   Pull the lever (B) with one hand while supporting the legrest with your other hand. When a suitable angle is obtained, let go of the lever and the legrest will look into one of seven preset positions (C).

Do not place anything heavy, or let children sit on the legrest. It may cause damage to the mechanism.

The distance between the lowest part of the footrest and the ground must be at least 40 mm.

FIXED LEGRESTS



Tool: 5 mm Allen key

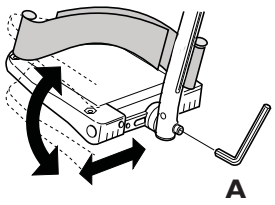
Height adjustment
Loosen screw (A) with an Allen key. Adjust the legrest into a suitable height and the screw is caught by one of the recesses on the legrest tube. Then retighten the screw.

NOTE! Don't touch the upper screw (C).

The distance between the lowest part of the footrest and the ground must be at least 40 mm.

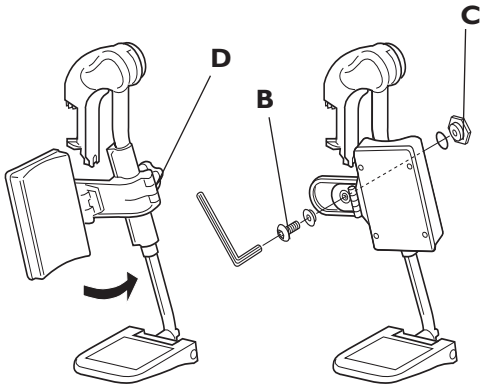
FOOTPLATES/CALF PADS

1.



Tool: 5 mm Allen key

2.



Tool: 5 mm Allen key

1. Angle-adjustable footplates

Adjust the angle and the depth by loosening the screw (A) at the footplate attachment with a 5 mm Allen key. Adjust the footplate to the correct position and retighten the screw.

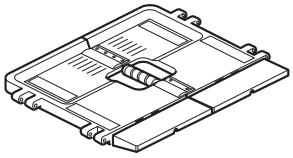
Do not place anything on the footplate when the screw is loose.

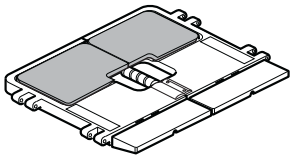
2. Calf pads

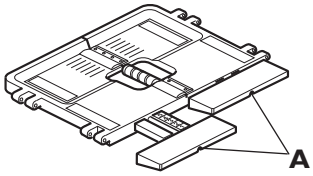
The calf pads can be fitted in two different depth positions. Swing the pad forwards. Unscrew (B) using an Allen key. Remove the large nut (C) on the reverse side and place it in the other attachment hole. Move the calf pad to the new position and secure it into place with the screw.

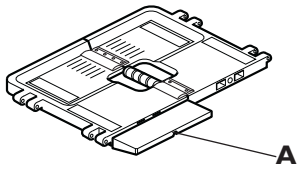
The height of the calf pads can easily be adjusted using the handwheel (D).

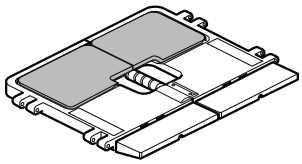
SEAT

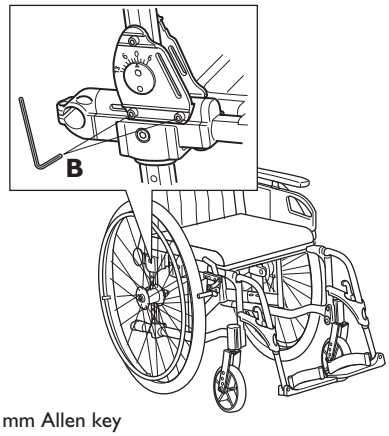
1. 

2. 

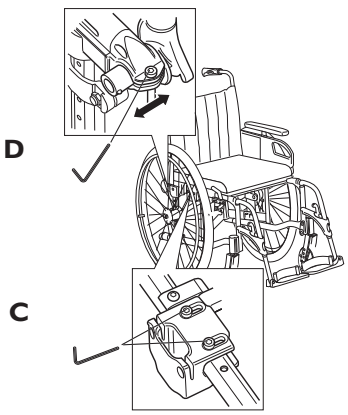
3. 

4. 

5. 

6. 

Tools: 5 mm Allen key

7. 

Tools: 5 mm Allen key

1. Seat without inlay cushion.

2. Seat with inlay cushion.

3. **Adjusting seat fronts**
You can adjust the seat fronts, one at a time. Loosen screw (A). Pull the seat front into desired position (max. 5 cm). Retighten the screw again.

Adjust only within the marked area.

4. **Removing seat front**
You can remove the seat fronts, one at a time. Just loosen screw (A) and pull the seat front right out.

5. **Inlay cushion**
For obtaining a flat seat the inlay cushion is inserted as shown on the picture.

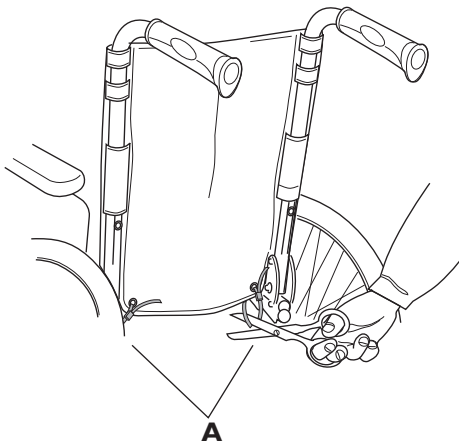
6. **Adjusting the seat depth**
Remove the armrests. Loosen the two screws (B) and push the backpipe to desired postition. Retighten the screw.

If the seat depth is adjusted backwards without moving the rear wheels back, there is an increased risk of the chair tipping back.

7. **Adjusting the seat width**
You can increase the seat width 2.5 cm. Remove the armrests and the seat cusion. Loosen the two screws (C) and change the position.
If the wheelchair has flip-up armrests you also have to loosen screw (D) at the end of the frame tube and change the tube position accordingly.
Retighten screws (C) and (D).

BACKREST

1.



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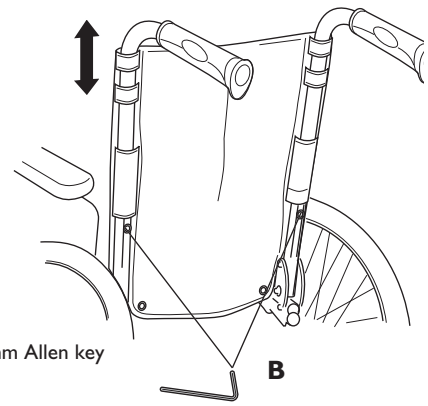
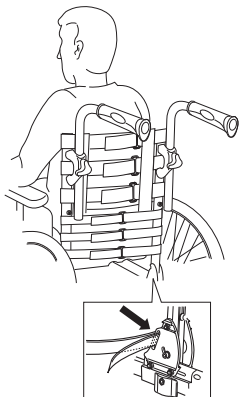


Tools: 5 mm Allen key

3.



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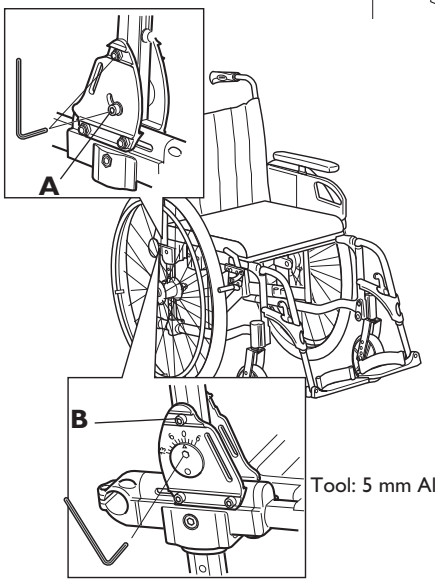


Tool: 5 mm Allen key

Adjusting the backrest height

1. Use a pair of scissors to remove the plastic ties (A) at the bottom of the backcloth. Then fold the chair slightly by lifting the seat upwards.

Always attach new straps when the backrest has been adjusted. Tighten them well.

2. Loosen screws (B) on the rear of the backpipe with an Allen key. It is now possible to lower and raise the back. Retighten the screws again.
When adjustment is complete, secure the backcloth with new plastic ties.

Velcro backrest

If the backrest has been adjusted to a higher level, fold down the bottom part of the Velcro upholstery. It should cover the backrest as much as possible. Remember to fixate the lowest strap in the backrest brackets. The strap holds the upholstery down.

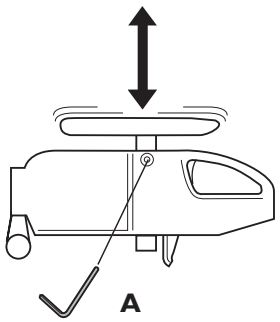
3. **Backrest shape**
The shape of the backrest can be adjusted with the Velcro straps.
The user should sit in the chair while the backrest is being adjusted. The shape can be adjusted with the Velcro straps to satisfy the user's needs for support and comfort. For example, the straps in the lumbar region could be tightened to provide a good support to the sway-back and enable a more upright sitting position. When all adjustments are done, fold back the backcloth and attach it with

the Velcro straps.

4. **Backrest angle**
Loosen the screw (A) on the inside and screw (B) on the outside of the back tube. Angle the back to the desired position by turning the dial (C) (between 6° forward or 13° backward) by hand or with the Allen key.
Tighten the screws again.
Repeat the procedure on the opposite side.

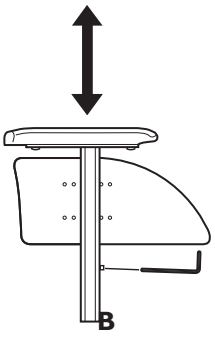
ARMRESTS

1.



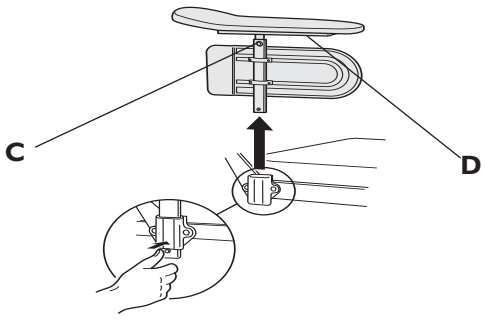
Tool: 5 mm Allen key

2.



Tool: 5 mm Allen key

3.



Adjusting the height of the armrests

1. **Flip-up armrest**
   If your chair is equipped with armrests that can be raised or lowered, this is achieved by loosening the screw (A), moving the armrest into the required position and retightening the screws.

2. **Detachable armrest**
   If your chair is equipped with armrests these can be raised or lowered, by loosening the screw (B) under the armrest. Move the armrest up or down to the desired position and retighten the screw.

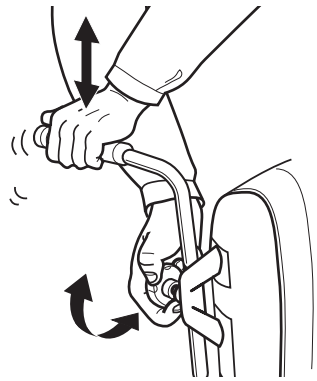
3. **Height adjustable armrest**
   Adjust the height of the armrests by turning the knob or Allen key screw (C), setting the required height and then re-tightening the knob/screw.

   Depth
   You can also adjust the depth of the armrest pad. Loosen the knob (D), set the pad in the required position and re-tighten the knob.

When adjusting the height, do not put your fingers between armrest pad and side plate as they may get trapped.

PUSH HANDLES

1.



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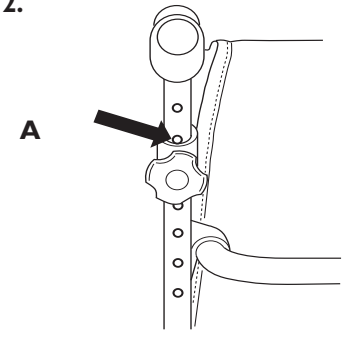
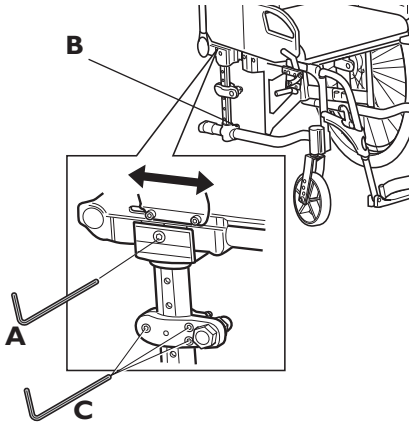


Adjusting the height of the push handles

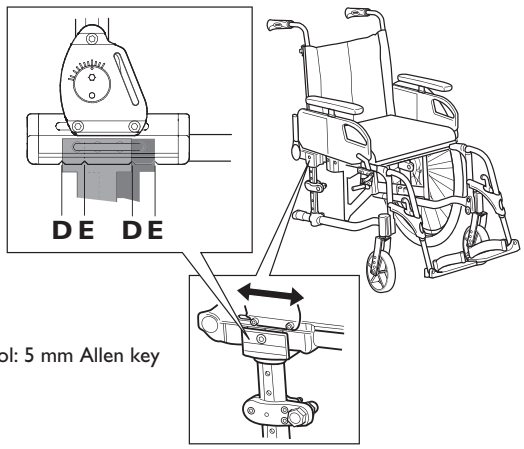
1. To raise or lower the height of the push handles turn the knob and raise the handles to the required height. Tighten when the correct position is achieved.

2. When hole (A) is visible, just above the attachment, the handle will be in the right "locking-position".

REAR WHEELS, ADJUSTMENT

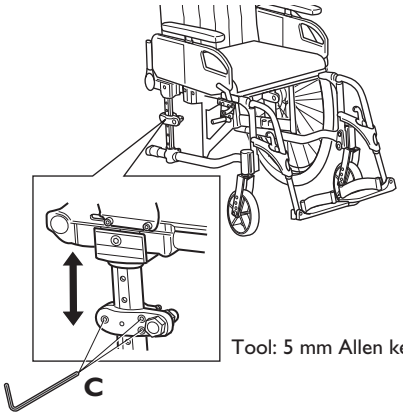


1.



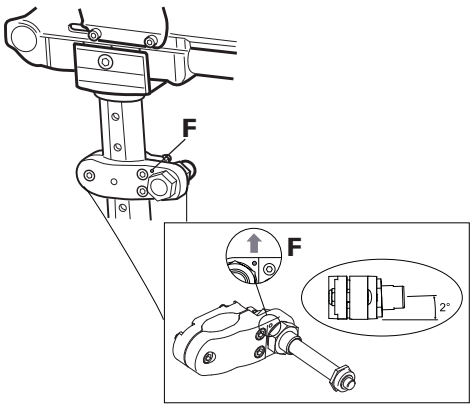
Tool: 5 mm Allen key

2.



Tool: 5 mm Allen key

3.



1. Rear wheel depth adjustment

To obtain different wheel balance there are four different positions of the rearwheel bar.
The front and rear positions are easily found by pushing the bar to its end positions.
The two middle positions is obtained by placing the bar between the marks (D) or (E) on the attachment.
To adjust the position of the rearwheel bar, loosen the screws (A and B) and let the screw-heads be visible before you move the bar. Push/pull it to the desired position and retighten the upper one (A) first and then the lower one (B). Note that the upper screw only locks when it is fully inserted.

In addition the rear wheel can be placed in front of or behind the bar. Loosen the screws (C) and turn the clamp. Retighten the screws alternately. If not, the clamp might get a slight obliqueness so that the rearwheel will catch the armrest.

The chair will be more unstable by positioning the rear wheels in front of the bar. If the wheels are positioned futher back the stability of the chair increases. Adjust this by loosing the screws (C) and turn the rear wheel attachment.

The risk of tipping increases greatly if the rear wheels are located in front of the backrest.

2. Rear wheel height adjustment

Loosen the screws (C) and slide the clamp up or down to desired position. A peg on the inside of the clamp fits in the holes of the bar. Retighten the screws alternately. If not, the clamp might get a slight obliqueness so that the rearwheel will catch the armrest.

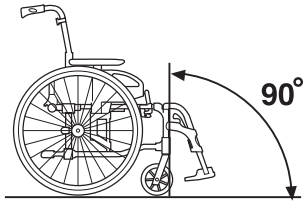
When you have fitted the wheels in the correct position, make sure that the nuts and screws are tightened securely. The axle housing should be tightened with a manual and dynamometric wrench calibrated to 40 Nm. This is important for your own safety!

3. Camber

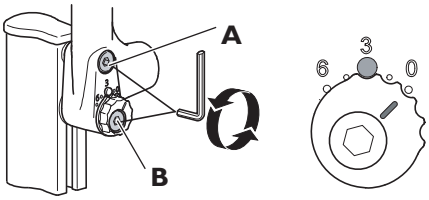
Invacare Rea Focus has 0° or 2° rearwheel camber depending on the rearwheel attachment. To change the camber the rearwheel attachments need to be changed. The 2° camber attachments have a round marking (F) on the outside.

! Important
Make sure that the marking (F) on the 2° rearwheel attachments is placed upwards to obtain the correct angle.

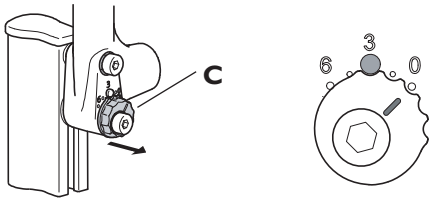
CASTOR ADJUSTMENT



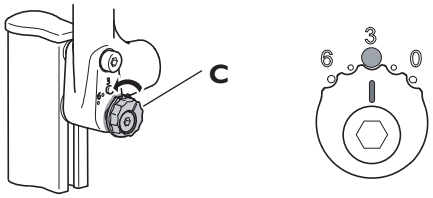
1a.



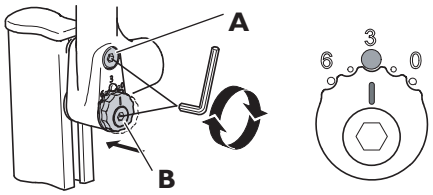
1b.



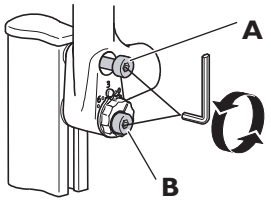
1c.



1d.



2a.



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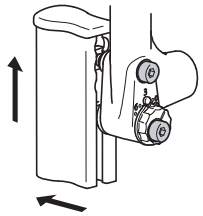

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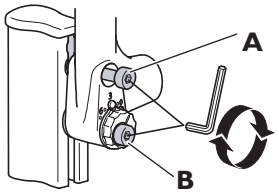


Adjusting the castor angle
The castor can be angled in 5 different positions from 0° to 6°. When you have found the desired seat height and depth, it's important to check that the angle between the castor attachment and surface is as close to 90° as possible, as it may affect the wheelchairs propelling ability.

1a. To adjust the angle, loosen the screw (A). Then loosen screw (B) 2 turns.

1b. Pull out the adjustment screw (C) by hand.

1c. Turn the adjustment screw (C) to the desired angle position by hand.

1d. When the desired angle has been found, push the adjustment screw back into position and retighten the screws (B) and (A).

Check that the castor is securely fitted after adjustment.

Adjusting the castor height
(only for high castor attachment)
The castor can be adjusted to 3 different heights.

2a. To adjust the height, loosen the screw (A) by 7 turns and screw (B) 2 turns.

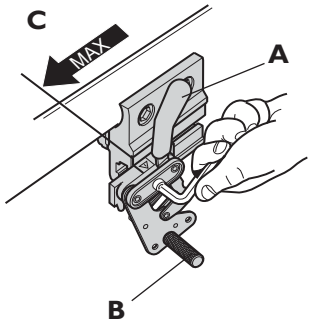
2b. Pull out the castor housing and move it to the desired height.

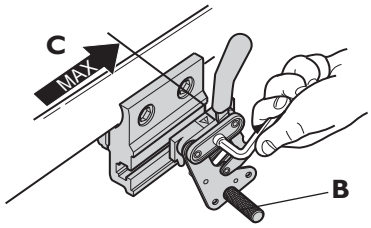
2c. When the desired height has been found, push the castor housing back into position and retighten the screws (B) and (A).

Check that the castor attachment is securely fitted after adjustment.

BRAKES

1.





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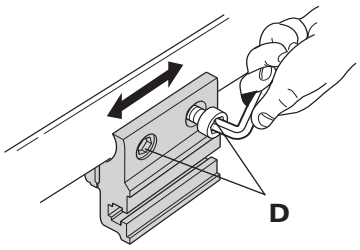


Tool: 5 mm Allen key

To apply the brake to the chair, press the lever (A) forwards. To release the brake, pull the lever backwards (towards you).

Take care not to trap your fingers between the brake shaft and tyre.

Adjusting the brake

1. Check that the tyres are inflated to the correct air pressure (indicated on the tyre wall). Then, using an Allen key, loosen the screw and slide the brake to the desired position and tighten. The correct distance between the brake shaft (B) and the tyre is approx. 15 mm.

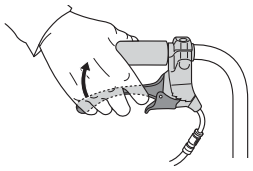
   NB
   The brake must not be moved further than indicated in the diagram opposite (C).

2. If the brake requires further adjustment, loosen screws (D), under the brake mounting and slide the mounting to a new position. Retighten screws (D).

Incorrect adjustments or use of the brake can reduce the effectiveness of the brake.

CARER-OPERATED BRAKE

1.



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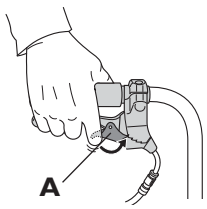

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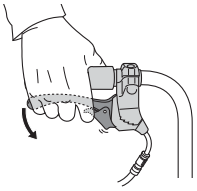


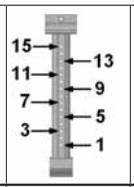
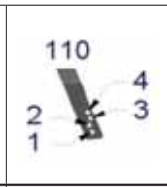
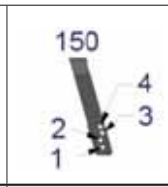
1. Apply the brakes when moving: pull both brake handles upwards (squeeze the handles) and the brake will be applied.

2. Lock the brakes: pull the brake handle upwards and move the lock catch (A) upwards. Then release the handle.

3. Release the brakes: pull the handle upwards and the lock catch will release automatically.

Incorrect adjustments or use of the brake can reduce the effectiveness of the brake.

WHEELCHAIR HEIGHTS
24*1 3/8" HIGH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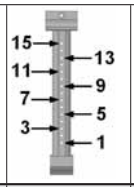
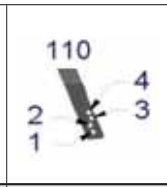
46,5	3°	9	N/A	3	3	125
46,5	3°	9	1	4	N/A	140
46,5	3°	9	1	4	4	150
46,5	3°	9	2	N/A	N/A	180
49	3°	7	N/A	1	1	125
49	3°	7	N/A	2	N/A	140
49	3°	7	N/A	2	2	150
49	3°	7	N/A	3	N/A	180
49*	3°	7	1	4	4	200
51,5	3°	5	N/A	1	N/A	140
51,5	3°	5	N/A	1	1	150
51,5	3°	5	N/A	2	N/A	180
51,5*	3°	5	N/A	3	3	200
54*	3°	3	N/A	1	1	200

N/A = Not applicable
* = Not possible in combination with 90° legrest

24*1" HIGH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46,5	3°	8	N/A	3	3	125
46,5	3°	8	1	4	N/A	140
46,5	3°	8	1	4	4	150
46,5	3°	8	2	N/A	N/A	180
49	3°	6	N/A	1	1	125
49	3°	6	N/A	2	N/A	140
49	3°	6	N/A	2	2	150
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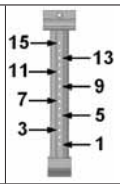
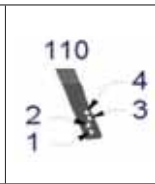
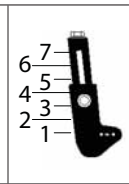
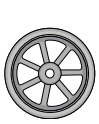
49*	3°	6	1	4	4	200
51,5	3°	4	N/A	1	N/A	140
51,5	3°	4	N/A	1	1	150
51,5	3°	4	N/A	2	N/A	180
51,5*	3°	4	N/A	3	3	200
54*	3°	2	N/A	1	1	200

N/A = Not applicable
* = Not possible in combination with 90° legrest

22$^{3/8}$" HIGH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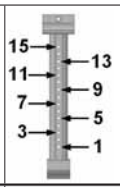
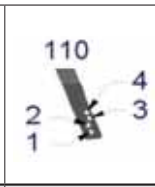
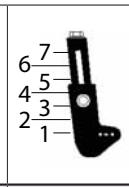
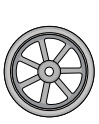
46,5	3°	7	N/A	3	3	125
46,5	3°	7	1	4	N/A	140
46,5	3°	7	1	4	4	150
46,5	3°	7	2	N/A	N/A	180
49	3°	5	N/A	1	1	125
49	3°	5	N/A	2	N/A	140
49	3°	5	N/A	2	2	150
49	3°	5	N/A	3	N/A	180
49*	3°	5	1	4	4	200
51,5	3°	3	N/A	1	N/A	140
51,5	3°	3	N/A	1	1	150
51,5	3°	3	N/A	2	N/A	180
51,5*	3°	3	N/A	3	3	200
54*	3°	1	N/A	1	1	200

N/A = Not applicable
* = Not possible in combination with 90° legrest

22*1" HIGH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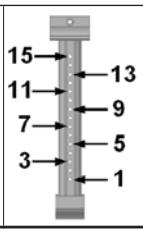
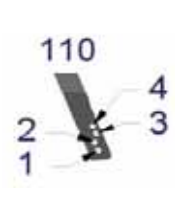
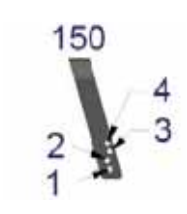
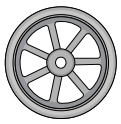
46,5	3°	6	N/A	3	3	125
46,5	3°	6	1	4	N/A	140
46,5	3°	6	1	4	4	150
46,5	3°	6	2	N/A	N/A	180
49	3°	4	N/A	1	1	125
49	3°	4	N/A	2	N/A	140
49	3°	4	N/A	2	2	150
49	3°	4	N/A	3	N/A	180
49*	3°	4	1	4	4	200
51,5	3°	2	N/A	1	N/A	140
51,5	3°	2	N/A	1	1	150
51,5	3°	2	N/A	2	N/A	180
51,5*	3°	2	N/A	3	3	200
54*	3°	N/A	N/A	N/A	N/A	200

N/A = Not applicable
* = Not possible in combination with 90° legrest

20*1 3/8" HIGH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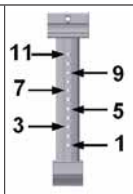
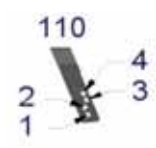
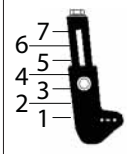
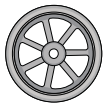
44	3°	7	2	N/A	5	125
44	3°	7	3	N/A	N/A	140
44	3°	7	3	N/A	6	150
46,5	3°	5	N/A	3	3	125
46,5	3°	5	1	4	N/A	140
46,5	3°	5	1	4	4	150
46,5	3°	5	2	N/A	N/A	180
49	3°	3	N/A	1	1	125
49	3°	3	N/A	2	N/A	140
49	3°	3	N/A	2	2	150
49	3°	3	N/A	3	N/A	180
49	3°	3	1	4	4	200

N/A = Not applicable
* = Not possible in combination with 90° legrest

20*1 3/8" LOW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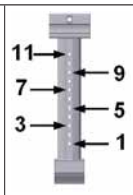
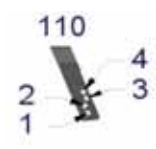
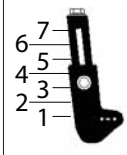
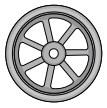
39	3°	7	3	N/A	6	150
41,5	3°	5	N/A	3	3	125
41,5	3°	5	1	4	N/A	140
41,5	3°	5	1	4	4	150
44	3°	3	N/A	1	1	125
44	3°	3	N/A	2	N/A	140
44	3°	3	N/A	2	2	150
44	3°	3	N/A	3	N/A	180

N/A = Not applicable
* = Not possible in combination with 90° legrest

22*1 3/8" LOW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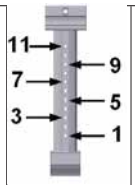
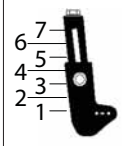
41,5	3°	7	N/A	3	3	125
41,5	3°	7	1	4	N/A	140
41,5	3°	7	1	4	4	150
41,5	3°	7	2	N/A	N/A	180
44	3°	5	N/A	1	1	125
44	3°	5	N/A	2	N/A	140
44	3°	5	N/A	2	2	150
44	3°	5	N/A	3	N/A	180
44*	3°	5	1	4	4	200
46,5	3°	3	N/A	1	N/A	140
46,5	3°	3	N/A	1	1	150
46,5	3°	3	N/A	2	N/A	180
46,5*	3°	3	N/A	3	3	200
49*	3°	1	N/A	1	1	200

N/A = Not applicable
* = Not possible in combination with 90° legrest

22*1" LOW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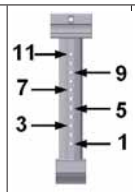
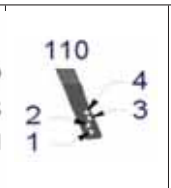
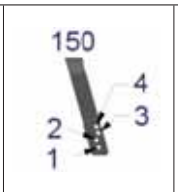
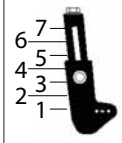
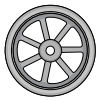
41,5	3°	6	N/A	3	3	125
41,5	3°	6	1	4	N/A	140
41,5	3°	6	1	4	4	150
41,5	3°	6	2	N/A	N/A	180
44	3°	4	N/A	1	1	125
44	3°	4	N/A	2	N/A	140
44	3°	4	N/A	2	2	150
44	3°	4	N/A	3	N/A	180
44*	3°	4	1	4	4	200
46,5	3°	2	N/A	1	N/A	140
46,5	3°	2	N/A	1	1	150
46,5	3°	2	N/A	2	N/A	180
46,5*	3°	2	N/A	3	3	200
49*	3°	N/A	N/A	N/A	N/A	200

N/A = Not applicable
* = Not possible in combination with 90° legrest

24*1 3/8" LOW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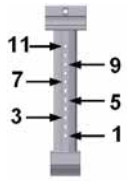
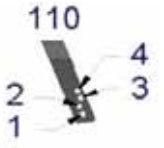
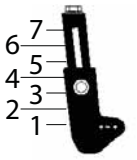
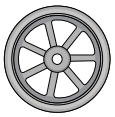
41,5	3°	9	1	4	N/A	140
41,5	3°	9	1	4	4	150
41,5	3°	9	2	N/A	N/A	180
44	3°	7	N/A	1	1	125
44	3°	7	N/A	2	N/A	140
44	3°	7	N/A	2	2	150
44	3°	7	N/A	3	N/A	180
44*	3°	7	1	4	4	200
46,5	3°	5	N/A	1	N/A	140
46,5	3°	5	N/A	1	1	150
46,5	3°	5	N/A	2	N/A	180
46,5*	3°	5	N/A	3	3	200
49*	3°	3	N/A	1	1	200
49*	3°	N/A	N/A	N/A	N/A	200

N/A = Not applicable
* = Not possible in combination with 90° legrest

24*1" LOW

						
39	3°	10	2	N/A	5	125
39	3°	10	3	N/A	N/A	140
39	3°	10	3	N/A	6	150
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41,5	3°	8	1	4	N/A	140
41,5	3°	8	1	4	4	150
41,5	3°	8	2	N/A	N/A	180
44	3°	6	N/A	1	1	125
44	3°	6	N/A	2	N/A	140
44	3°	6	N/A	2	2	150
44	3°	6	N/A	3	N/A	180
44*	3°	6	1	4	4	200
46,5	3°	4	N/A	1	N/A	140
46,5	3°	4	N/A	1	1	150
46,5	3°	4	N/A	2	N/A	180
46,5*	3°	4	N/A	3	3	200
49*	3°	2	N/A	1	1	200

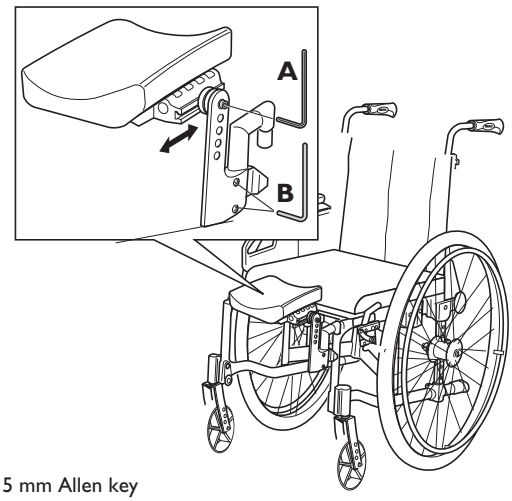
N/A = Not applicable

* = Not possible in combination with 90° legrest

Accessories

AMPUTEE LEGREST

1-2.



Tool: 5 mm Allen key

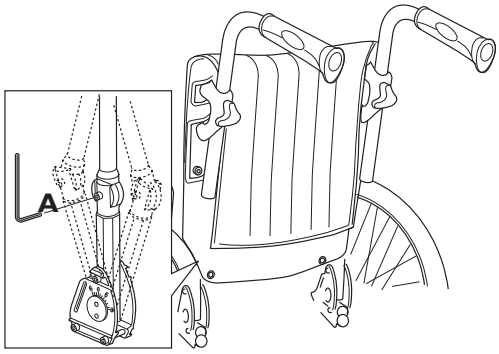
1. Attach the legrests by pushing the tube at the upper part of the legrests down into the tubes on the wheelchair. You must angle the legrests outwards when inserting them. Lock the legrests by turning them inwards. The legrests are automatically locked so there is no risk of them coming off the wheelchair.

2. Slacken screw (A), on the cushion's mounting, in order to adjust the cushion's angle and depth. Slacken screws (B) in order to adjust the cushion height.

Warning Tip risk
There is an increased risk of tipping for amputated users. Use anti-tippers and/or re-balance the wheelchair when amputee legrests are used.

BIANGULAR BACKREST

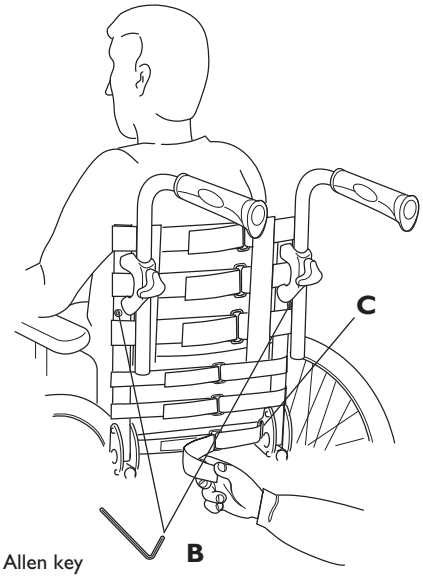
1.



Tool: 5 mm Allen key

1. Angle
The lower joint is adjustable in the same way as the "Backrest angle" on page 14.
The upper joint is adjustable by inserting an Allen key in the screw (A) as indicated. Loose, adjust and retighten the screws.

2.

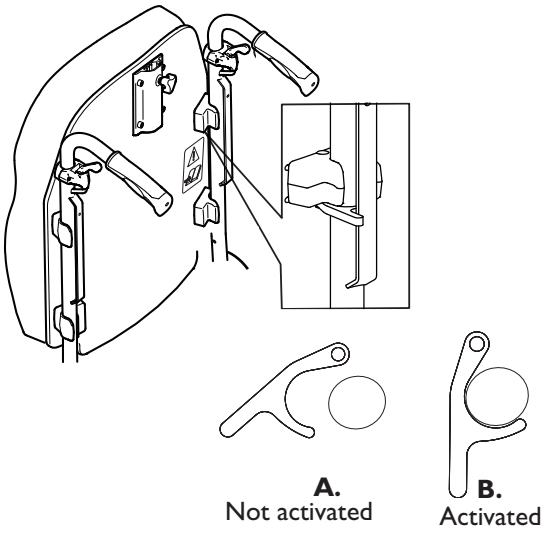


Tool: 5 mm Allen key

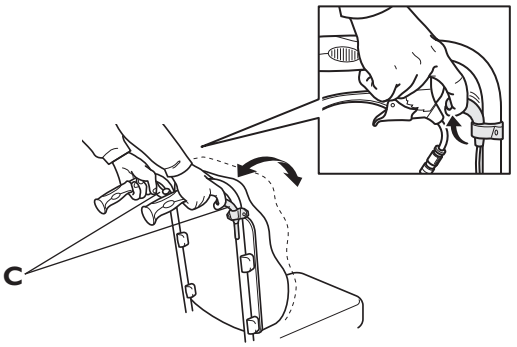
2. Height
The upper part of the backrest is adjustable. Loose the screws (B) and adjust to prefered height. If you have decreased the height, the lower part of the upholstery needs to be adjusted. Fold down the velcro upholstery and remove unnecessary straps as shown in the picture.
The bottom velcro band must be pulled through the slot at the front of the backrest attachment (C). It prevents the upholstery from sliding upwards.

RECLINING BACKREST

1.



2.



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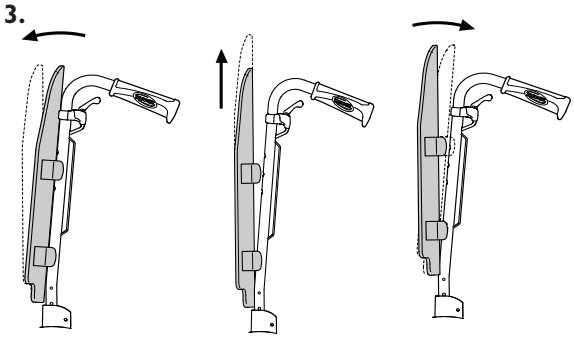
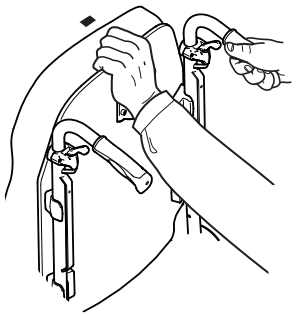


4.



1.

The reclining backrest has two safety clamps that will prevent any involuntary release of the back from the backrest tubes. Always make sure that the clamps are activated around the backrest tubes when the wheelchair is used.

2. Angle

To angle the backrest, press the levers (A) under the handles and adjust to desired angle.

Note that when the backrest is angled backwards, this also increases the risk of tipping the chair backwards. Adjust the rear wheels to a stable position. We recommend the use of anti-tip devices.

3. Height adjustment

Release the two safety clamps from the backrest tubes. Then release the top two attachments on the backrest from the backrest tubes by pushing firmly. The backrest can now be slided on the backrest tubes to adjust the back to the desired height. There are three height options (0, 4, 8 cm) that are achievedby fitting the pins in the upper attachments in the holes on the backrest tubes.

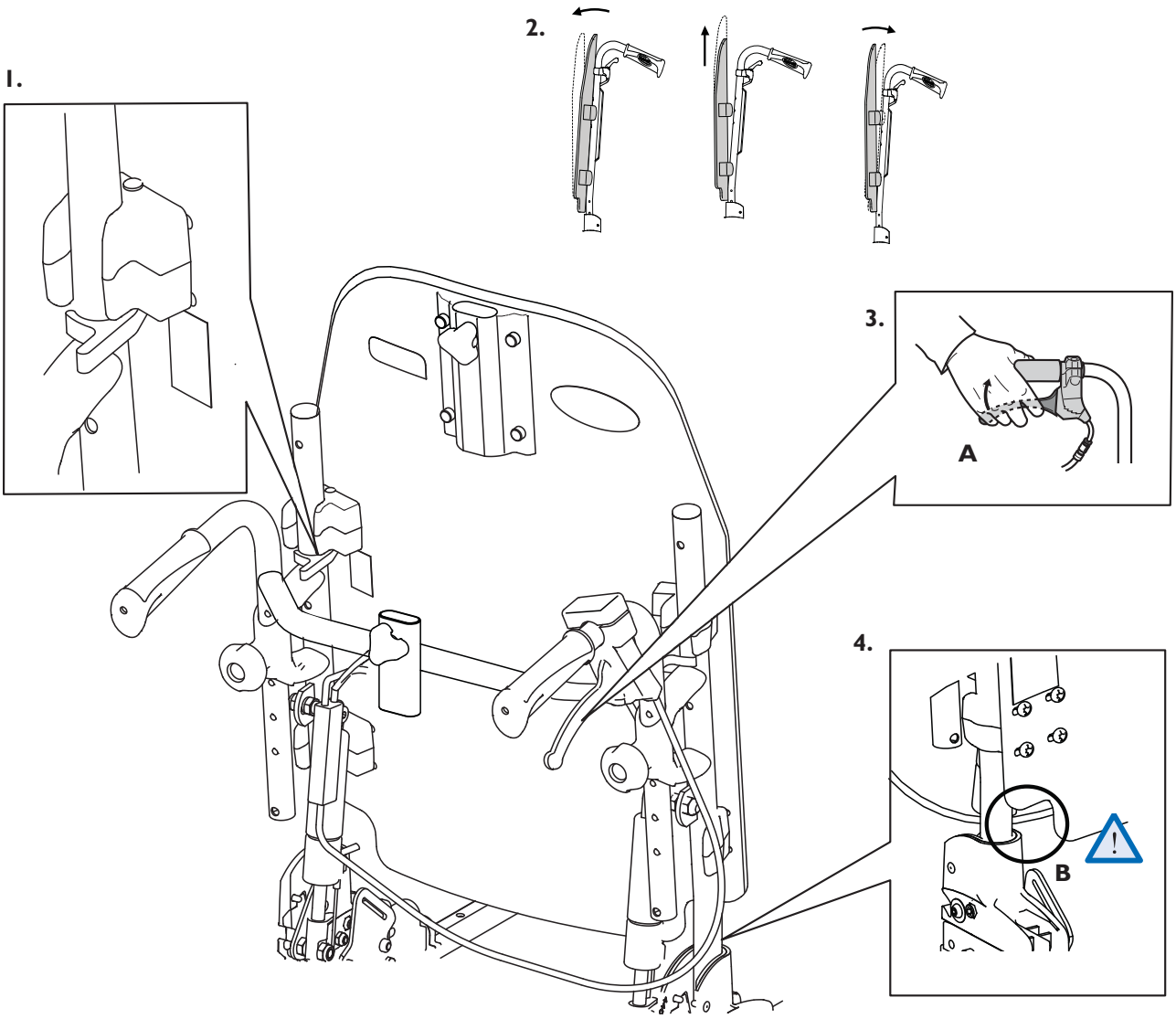
When attaching the backrest make sure that it is secured in a safe way and that the safety clamps are re-attached.

4. Foldability

To be able to fold the chair the backrest must beremoved completely from the backrest tubes. This is done by releasing the safety clamps and then pushing firmly on the backrest to release it from the backrest tubes.

When attaching the backrest make sure that it is secured in a safe way and that the safety clamps are re-attached.

RECLINING BACKREST GAS SPRING



1. The reclining backrest has two safety clamps that will prevent any involuntary release of the back from the backrest tubes. Always make sure that the clamps are activated around the backrest tubes when the wheelchair is used.

2. **Height adjustment**
   Release the two safety clamps from the backrest tubes. Then release the top two attachments on the backrest from the backrest tubes by pushing firmly. The backrest can now be slided on the backrest tubes to adjust the back to the desired height. There are two height options (0 +4 cm) that are achieved by fitting the pins in the upper attachments in the holes on the backrest tubes.

   When attaching the backrest make sure that it is secured in a safe way and that the safety clamps are re-attached.

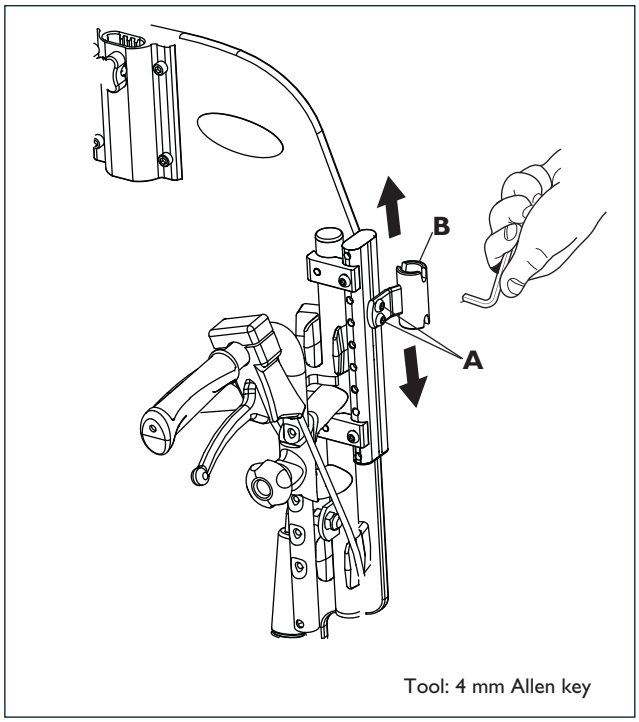
3. **Angle**
   To angle the backrest, press the lever (A) under the handles and adjust to desired angle.

   Note that when the backrest is angled backwards, this also increases the risk of tipping the chair backwards. Adjust the rear wheels to a stable position. We recommend the use of anti-tip devices.

4. **Warning - Pinch point**
   You could hurt your finger if it is inserted at point (B) when the back is being tilted or raised. Never insert any body parts at the point shown.

TRUNK SUPPORT FOR RECLINING BACKREST GAS SPRING

1.



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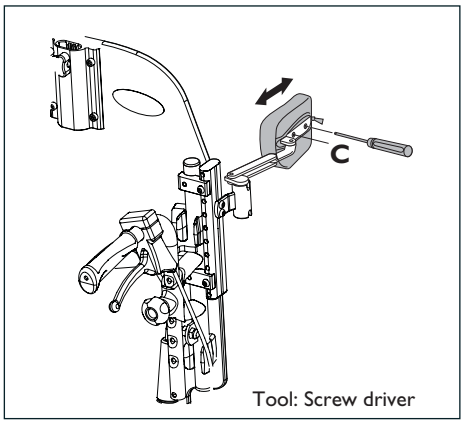

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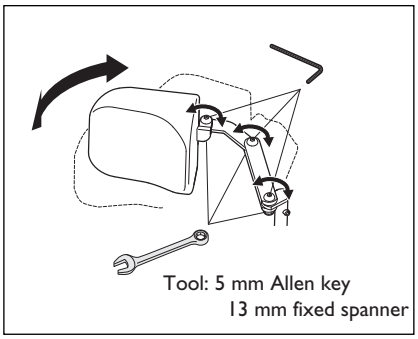


The trunk support can be swung away or lifted out of its holder. The height, depth and sideways positions are easy to adjust.

Height adjustment

1. Adjust the height by first slackening the screws (A) with an Allen key and then sliding the holder (B) up or down to the required position. Re-tighten screws.

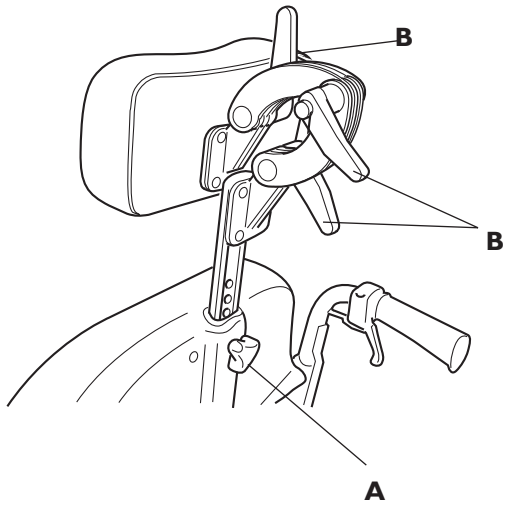
2. **Depth adjustment**
   Open the zip on the cover to reach screws (C) and slacken with a screw driver. Adjust the trunk support to the desired position. Re-tighten screws and close the zip.

3. **Angle adjustment**
   Remove the cover on the arm of the trunk support to reach the screws and nuts and slacken them. Remember to secure tightly when the desired position has been achieved.

Be careful not to catch your thumb between the trunk support and the wheel when propelling the chair.

HEAD AND NECKREST

1.

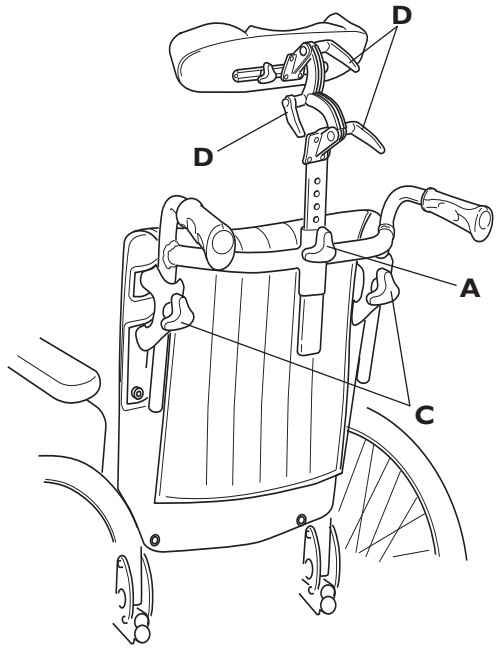


1. Head and neckrest for reclining backrest
The wheelchair can be supplied with either head- or neckrest which is assembled at the backrest attachment.

Height adjustment
Loosen the knob (A) and adjust to desired height. Retighten the knob again.

Angle adjustment
Loosen the handles (B) and adjust to desired angle.

2.

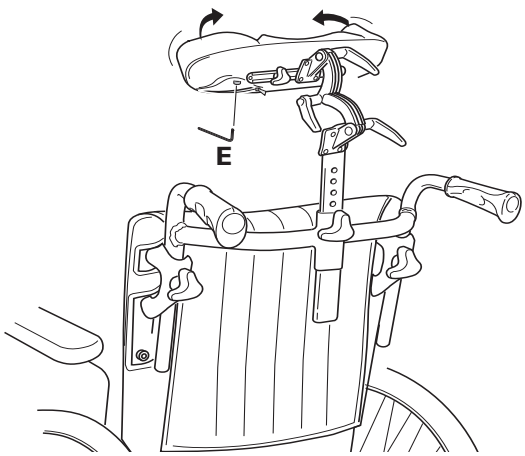


2. Head and neckrest for biangular backrest
The head and neckrest are mounted on the push bar.

Height adjustment
Loosen the knobs (A, C) and adjust to desired height. Retighten the knobs again.

Angle adjustment
Loosen the handles (D) and set the desired angle. Retighten the handles again.

3.



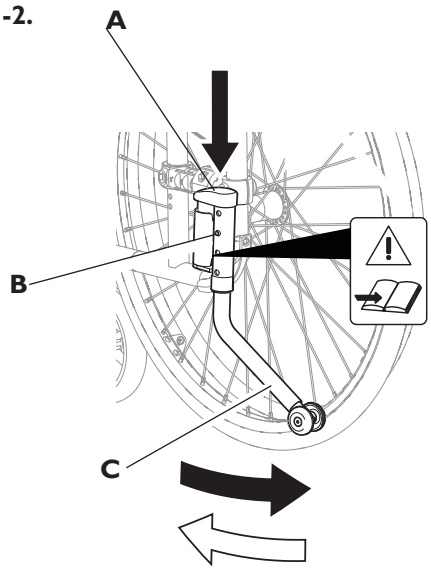
Tool: 5 mm Allen key

3. Adjust the angle of the sides of the headrest
Adjust the angle of the "wings" of the headrest by unzipping the zip at the bottom of the neckrest and loosening the screw (E). Set the required angle and close the zip.

A head and neckrest may affect the balance of the wheelchair when mounted behind the backrest. Please control the balance of the wheelchair and adjust the rearwheels backwards for increased stability.

ANTI-TIP DEVICES

1-2.



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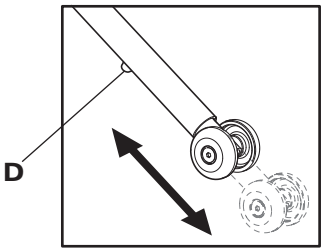


Anti-tip device swing-away

The anti-tip device also acts as a step tube. It is height adjustable and is easy to adjust. The anti-tip device is foldable and adjustable in both height and depth. Please pay special attention to the placement of the anti-tip device when in use. A sticker will warn you if the anti-tip device is not activated.

Note! The distance between the anti-tip wheel and the ground, and the distance between anti-tip wheel and rearwheel, should be approx. 5 cm.

1. **Folding**
   To swing the anti-tip device under the wheelchair, press the "hub" (A) downwards and then sideways.
   To activate the anti-tip device, just swing it back in place and it will lock into position automatically.

Use your foot when folding the anti-tip device. When folding the anti-tip device by hand, there is an increased risk of trapping your fingers between the anti-tip housing and tube.

2. **Adjusting height**
   To adjust the height press the two knobs (B) on each side of the housing and pull the tube (C) to desired set of holes.
   The knobs will lock the tube into position.

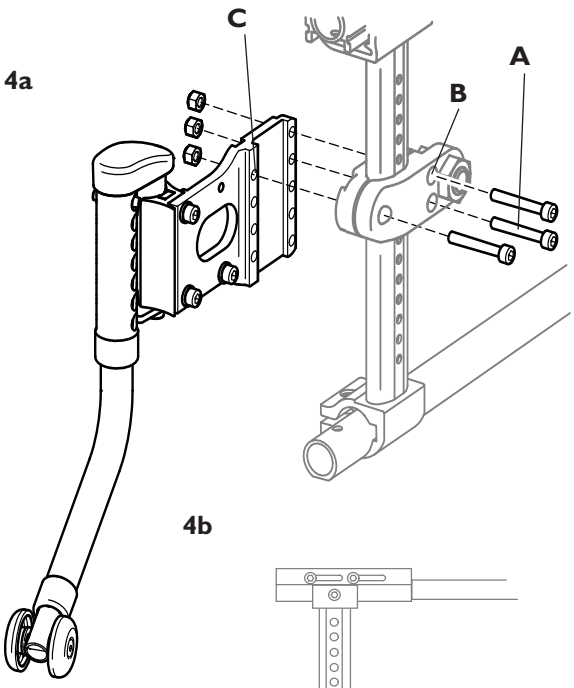
Do not use these knobs (B) to fold or unfold the anti-tip device.

3. **Adjusting depth**
   The depth adjustment is done by pressing knob (D) and pull the wheel tube out to desired depth.
   The knob will lock the tube into position.

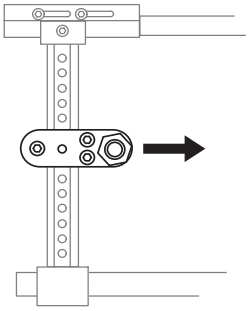
Never forget to fold down the anti-tip devices as the wheelchair may tip over.

Make sure the anti-tip device is securely locked before use.

4a



4b

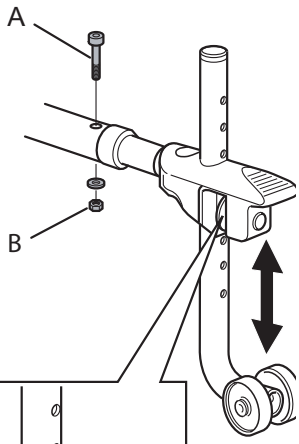


4. Mounting

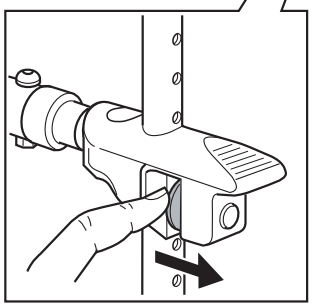
a. Insert the three screws (A) into the holes in the rear wheel attachement (B) according to picture 4a and fit them in the holes (C) on the anti-tip device. The height of the device will be adjusted according to which holes are used. Tighten screws firmly.

b. Please note that the attachment must be fitted facing forward as picture 4b shows in order for the anti-tip device to function properly.

1.



2.



Tool: 5 mm Allen key
10 mm fixed spanner

Anti-tip device regular

The anti-tip device also acts as a step tube. It is height adjustable and is easy to adjust.

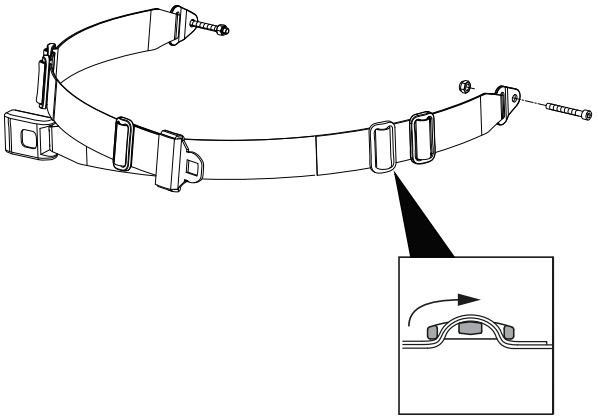
1. Change the plastic plugs on both step tubes to the ones enclosed. Push the anti-tip device onto the tube and secure with screw (A) and nut (B).

2. Lift the spring loaded button and select the required height. Ensure that the anti-tip device locks into its new position.

Never forget to fold down the anti-tip devices.

PELVIC BELT

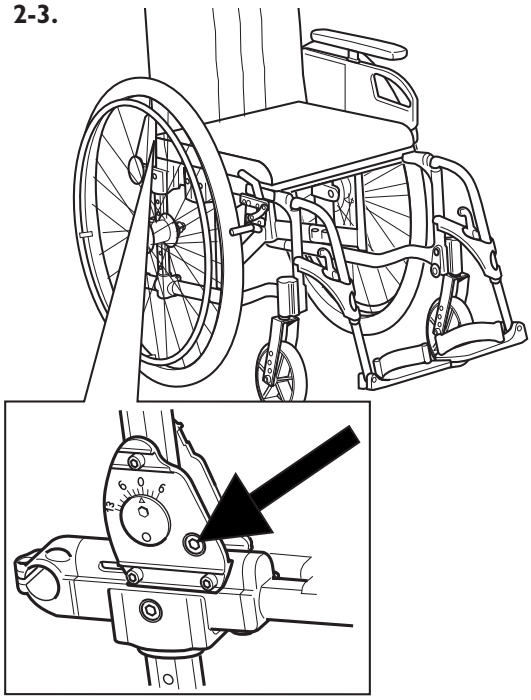
1.



1. The pelvic belt is used to prevent the risk of falling or sliding out of the chair and for providing the user with a good posture.

! When in use, make sure that the belt is threaded through both the plastic buckles otherwise the belt might slide and not provide the necessary support

2-3.

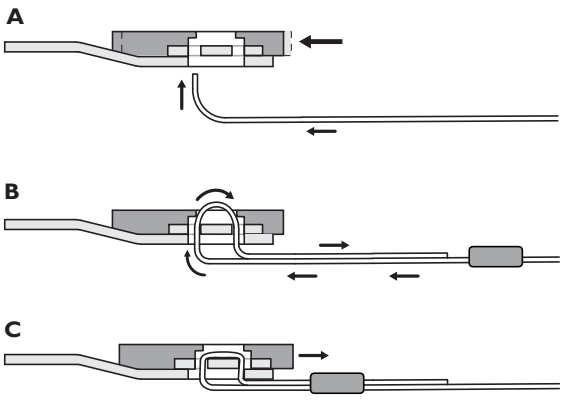


2. The pelvic belt is mounted with a screw to the wheelchair at the point shown in the illustration.

Adjustment

Ensure that the user is sitting fully back in the seat and that the pelvis is as upright and symmetrical as possible - not forward on one side or tilted back. Position the lap belt so that the hip bones can be felt above the belt. Adjust the length using the buckles so that there is just sufficient room for your hand to slide between your body and the belt. It is recommended that the clasp is kept in a central position, i.e. make adjustments to each side. These adjustments should be checked and possibly changed each time the belt is used.

4.



3. If the belt has come loose at the metallic buckle it should be threaded according to the pictures a-c. Please make sure that the belt cannot slide.

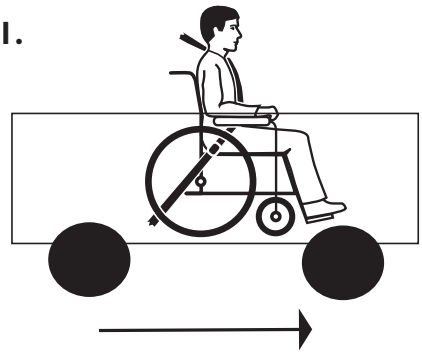
Transporting wheelchairs with users in vehicles

The Invacare Rea™ wheelchairs are designed to offer the user the best comfort and safety possible during all kinds of situations in everyday life. This means that compromises have to be made in order to make the product useful. During transport in cars, it is always safest to ride in the car's normal seat with the seatbelt on. You *should* ride in the car's normal seat and use the seatbelt if possible. If, for some reason, it is impossible to be transported in any other way the wheelchair can be used as a seat in a vehicle if the following rules and regulations are followed.

Even if the Invacare Rea™ products and the following rules are meant to increase safety during transport in vehicles, injuries to passengers can still occur if an accident should happen. Invacare does not leave any guaranties for the outcome of any accidents during transport of wheelschairs and users in vehicles.

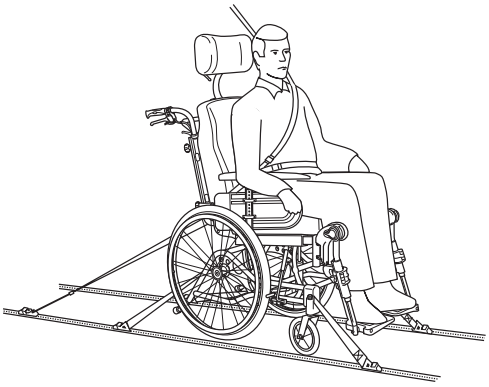
The wheelchair is tested and approved according to standard 7176-19 .

1.



1. The wheelchair and user should be transported forward-facing in the direction of travel. All auxiliary equipment such as tables, trunk support, abduction cushion etc should be removed and stored safely so that they do not injure anyone during any kind of accident.

2.

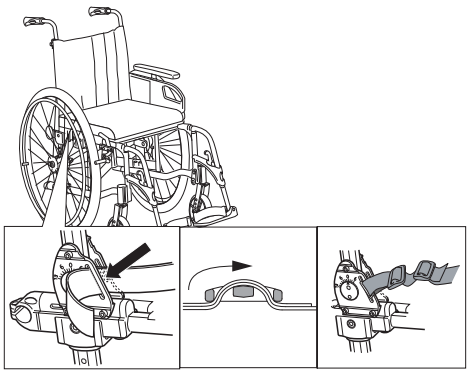


2. The wheelchair should be secured in the vehicle with a 4-point restraint system. The user should wear a 3-point safety belt secured in the vehicle. Both the 4-point restraint system and the 3-point safety belt should be approved according to ISO-10542-2.

3.

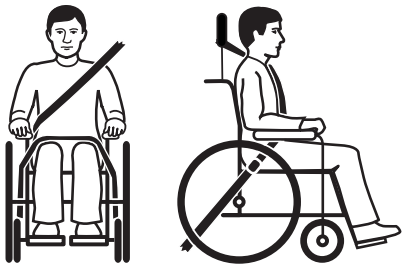
3. The tie-down points on the wheelchair where the restraint system straps should be placed are marked with this symbol.

4.



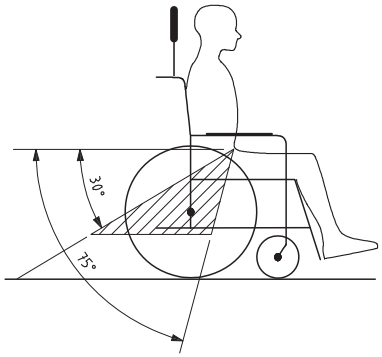
4. In order to be used as a seat during transport in a vehicle, the wheelchair must be equipped with a pelvic belt.

5.



5. The vehicle's safety belt should fit as tightly across the user's body as possible without discomfort. The upper part of the safety belt should fit over the user's shoulder as illustrated. No part of the safety belt must be twisted.

6.



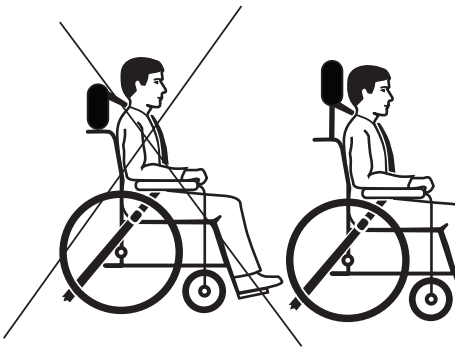
6. The pelvic part of the 3-point safety belt must be worn low across the pelvis so that the angle of the pelvic belt is within the preferred zone (A) of 30° to 75° to the horizontal. A steeper angle is preferred, but never exceeding 75°.

7.

Incorrect placement of safety belt

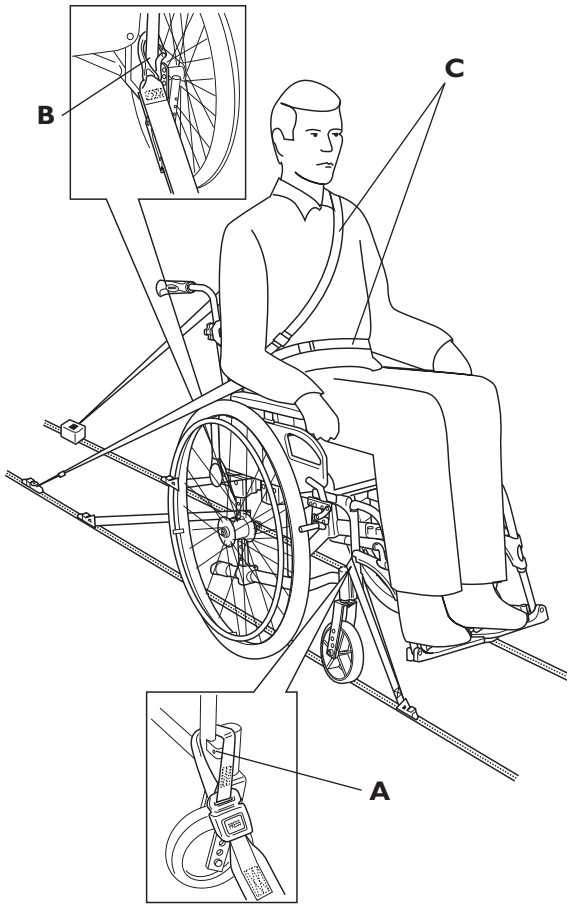
7. The 3-point safety belt must not be held away from the user's body by parts of the wheelchair such as armrests or wheels etc.

8.



8. When a wheelchair is equipped with a neckrest or a headrest it should be adjusted in a high position as shown in the picture. Please note that for some models it is obligatory to have a headrest fitted on the wheelchair if it is going to be used as a seat during transport in a vehicle..

RESTRAINT METHODS



Rea™ Focus™

A. Frontal restraints with straps

1. Connect the frontal straps around the frontal part of the frame.
2. Release brakes and tension front straps by pulling the wheelchair backwards from the rear.
3. Re-apply wheelchair brakes.

B. Rear restraints

1. Attach the snap hooks on the rear straps to the frame just above the rear wheel attachments.
2. Tighten the straps.

C. Fastening of pelvic belt and safety belt

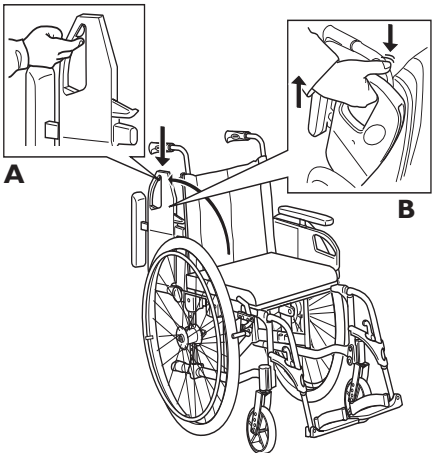
1. Check that the pelvic belt on the wheelchair is correctly fastened.
2. Fasten the 3-point safety belt over the user.

If pelvic belt on the wheelchair is missing we recommend that the user should transfer to the seat of the vehicle.

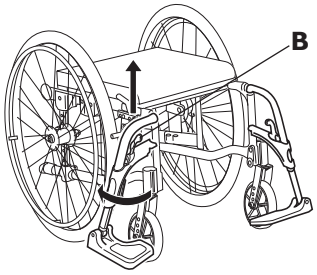
The safety belt may not be kept from the user's body by the parts of the wheel chair.

When you transport the Rea™ Focus™ you can easily remove certain parts to make the chair smaller and lighter.

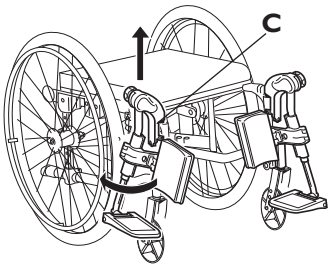
1.



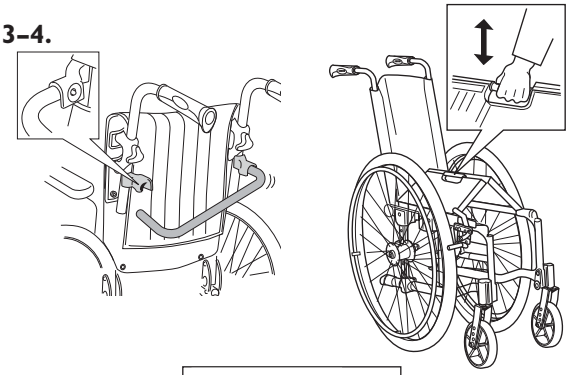
2a.



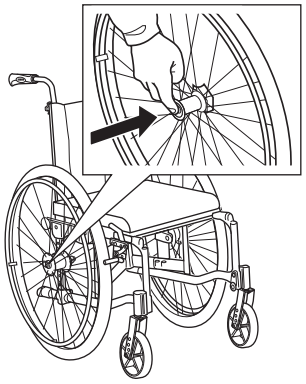
2b.



3–4.



5.



1. Start by removing the armrests.

Flip up armrests
Press the button (A), swing up the armrest.
Lift it straight up (you may need to hold it slightly forward then lift it straight up) (B).

Detachable armrests
When having detachable one´s, just lift them up.

2. Footrests and legrests

2a. Remove the footrests by pressing the level (B), whilst turning the footrests outwards or inwards and pull them straight up.

Be careful not to trap your fingers between frame and footrest.

2b. Remove the legrests by pressing the level (C) forwards, whilst turning the legrests outwards and pull them straight up.

Be careful not to trap your fingers between frame and legrest.

The Brake lever
Please note the brake lever handle will have a certain amount of free play. Without activating the brake, the lever will fold up automatically when the legrest has been moved to its outward position. To activate the brake just push the lever forwards.

3. Backrest bar
Press the indicated small knob and fold down the backrest bar.

4. Fold the seat by always pulling the handle in the middle of the seat right up.

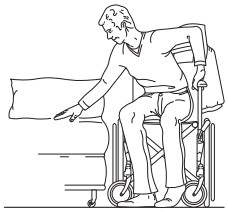
Be careful not to trap your fingers between the seat-halves!

5. Remove the rear wheels by pressing the button in the centre of the hub whilst pulling the wheel away from the wheelchair. Finally, fold the anti-tip devices upwards.

Safety instructions/ propelling techniques

We recommend that the qualified person who has prescribed your wheelchair for you, tests the wheelchair and that he/she makes the adjustments that you want, taking your build and needs into account. We also hope that you have received help in learning how best to use your chair. Start by practising carefully until you are familiar with the wheelchair's possibilities and limitations.

Moving to and from the wheelchair

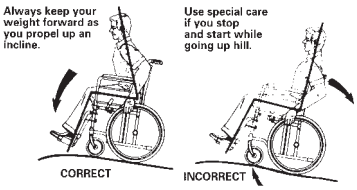


Propel the wheelchair as near as possible to the seat that you want to move to. Apply the brake. Remove/flip up the armrests and detach the legrests/move them outwards. Do not put any of your weight on the foot plates, as the chair may tip forwards.

Stretching and bending

Propel the wheelchair as near as possible. When stretching and bending, do always have full contact between the backrest and the back otherwise the wheelchair may tip over. Stretching behind the backrest is not recommended.

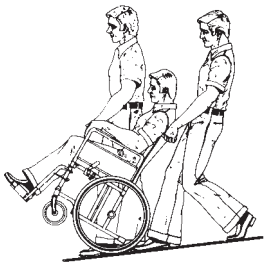
Propelling up a slope



Many experienced users manage to propel up a slope by themselves. In order not to lose control of the steering and to avoid tipping backwards, you should always lean forwards whilst propelling up a slope. Propel the wheelchair forwards using short, quick strokes applied to the hand rims, in order to maintain speed and steering control.
Generally, help is needed in the case of steep slopes.
If you have to stop on a slope, it is particularly important to ensure that you do not make any sudden or unexpected backward movements when you start moving the wheelchair forwards again. As the wheelchair is already leaning backwards, such a movement can cause the wheelchair to tip backwards.

Be careful not to trap your fingers between brakepin and tyre.

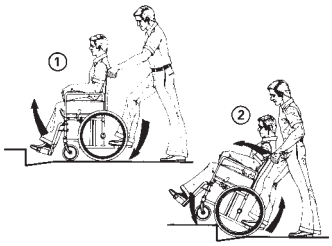
Propelling down a slope

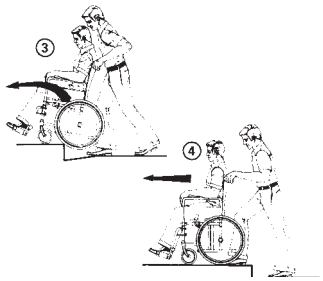


We recommend that you get the help of one or more assistants when going down steep and wet slopes.

First check the slope to see if there are any particular risks, such as potholes, slippery sections, etc. Never use your brake to slow down. When you apply the brake on a downward slope, the wheels lock and the wheelchair can suddenly pull to one side, tip sideways or stop immediately, which can cause you to be thrown out of the chair. Always control the speed with the hand rims. Remember that the hand rims may become hot due to friction, and this may cause injury to your hands. Try to propel down the slope in a straight line as much as possible. Never change direction when propelling down a slope. Never propel up or down a slope in crosswise direction.

Onto a kerb





This method is for when the assistant is always behind the wheelchair and creates the greatest safety for the user.
The following advice is for the assistant:

Illustration 1)
Adjust the anti-tip device upwards. Ensure that the user's feet rest securely on the footrests and cannot slide off. Then lean the wheelchair backwards and push it forwards against the kerb.

Illustration 2)
Lower the front part of the wheelchair onto the pavement and place yourself as close to the chair as possible, before you lift up the whole wheelchair.

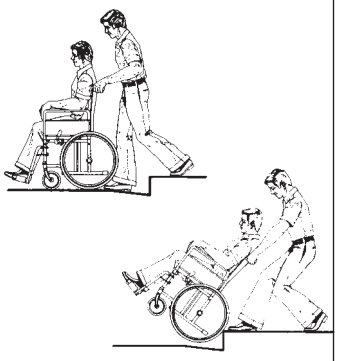
Illustration 3)
Lean forward and lift/roll the wheelchair over the pavement edge.

Illustration 4)
Lower the wheelchair onto the pavement so that the weight is divided on all four wheels. Ensure that the wheelchair does not roll backwards.

Off a kerb

Follow the procedure above, but in reverse order (step 4, 3, 2 and then 1) to move off a kerb.

Kerbs - alternative method



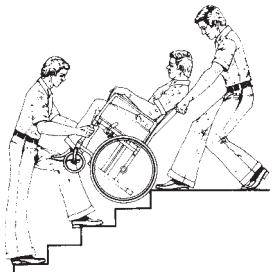
Generally this method is used by experienced assistants who are stronger than average. The method can also be used when the kerb or step is low and only constitutes a minimal obstacle.

The assistant goes backwards onto the pavement and then pulls the wheelchair up onto the pavement. It is important for the assistant to use his/her body correctly to prevent injury. Tip the wheelchair backwards and roll the chair over the kerb onto the pavement. Take particular care if the kerb is wet or slippery.

Escalators

Do not use the escalator when you are in the wheelchair. Find out whether there is a lift nearby.

Stairs



We advise you to avoid going up/down stairs in your wheelchair where possible, and to choose an alternative route instead.

We recommend that you receive help from two assistants to get up and down stairs. One assistant goes in front of the chair and holds the frame of the wheelchair, whilst the other assistant goes behind the chair and holds the push handles. Fold the anti-tip device upwards. Balance the wheelchair on the drive wheels until the balance point is found. The wheelchair is then rolled down the stairs, step by step, by letting the drive wheels roll over the edge of each step. Assistants must remember not to hold removable armrests or legrests. In addition, assistants should remember to lift correctly, using their legs and keeping their backs as straight as possible.

Maintenance

Guarantee

Rea™ Focus™ is covered by a guarantee of two years from the delivery date.

Cleaning

Wipe metal sections and the upholstery regularly with a damp cloth. A mild detergent may be used. If necessary, the upholstery can be washed at 40°C. Ordinary washing powder/liquid can be used.

Washing and Disinfection

1. Remove all loose and removable covers and wash these in a washing machine following the washing instructions for each article.
2. Spray the wheelchair with detergent, for example a car-cleaning agent with wax, and leave on to work.
3. Rinse the wheelchair with a high-pressure cleaning or ordinary jet of water depending on how dirty the chair is. Do not aim the jet towards bearings and draining holes. If the wheelchair is washed in a machine the water must not be hotter than 60 degrees.
4. Spray the chair with alcohol for disinfection.
5. Leave the chair to dry in a drying cabinet. Remove parts where water has collected for example in end tubes, ferrules etc. If the chair has been washed in a machine, blow-drying with com-pressed air is recommended.

Wheels and tyres

- Wheel axles are to be wiped clean and lubricated with a drop of oil.
- Pneumatic tyres have valves similar to those on a car tyre, and the tyres can be pumped up using the same type of pump used for cars. The recommend pressure for drive wheels is:

Standard tyres:	3.5 bar	50 psi
Low profile tyres:	7.0 bar	90 psi
Castors 150 mm:	2.5 bar	

When inflating tyres there is a risk of explosion if over inflated

Technical servicing

- Only original parts or those approved and fulfilling Invacare's specifications may be used.
- All technical servicing is to be carried out by an authorised wheelchair echnician or by Invacare's service department. The wheelchair should be checked by authorised wheelchair technicians or Invacare's service depar tent once a year. The address and telephone number are on the back cover of the manual.
- Check all parts of the wheelchair once a week. If you discover damage, please contact Invacare immediately. The address and telephone number are on the back cover of this manual.

Service life

We estimate that Rea™ Focus™ has a service life span of five years. It is difficult to state the exact length of the service life of our products, and the length stated is an estimated average life span based on normal use. The life span may be considerably longer if the wheelchair is used to a limited extent, and if it is used with care, maintained and handled properly. The life span may be shorter if the wheelchair is subjected to extreme use.

Accidents/Near-accidents

Please inform your Invacare sales company (phone number is on the back cover) of any accidents/near-accidents that were caused by this wheelchair and that have led to/could have led to personal injury.The relevant authority in your country must also be notified.

Testing

Rea™ Focus™ has been tested and approved by The Swedish Handicap Institute and is CE -marked according to the Medical Device Directive.

Recycling

The wheelchair Rea™ Focus™ can be divided into the following main components: Chassis, Plastic parts, Upholstery, Wheels, tyres and tubes, Packing.

Chassis

The chassis is produced in aluminium and is fully recyclable. Recycling aluminium requires only 2–5 % of the energy compared to new produced aluminium.

Plastic parts

The plastic parts in the chairs are produced of "Thermoplastic" and are marked with recycling symbols (where it is possible due to part size). The main plastic material is polyamide. This material can be recycled or burned in approved facilities.

Upholstery

Upholstery is produced of polyester fibres, PUR or PVC. The efficient way to recycle the parts is to burn them in approved facilities.

Wheels, tyres and tubes

- The hand rim, rim, spokes and hub are made of steel, stainless steel or aluminium and can be re-cycled according to above.
- Tyres and tubes are made of rubber and can be recycled according to above.

Packing

All Invacare Rea AB packing material is developed to fit the products in an optimal way to reduce unnecessary material waste. All boxes are recyclable.
Contact your local recycling agent to otain the correct information how to handle the above mentioned materials.

Surface treatment

Lacquered surfaces are lacquered with polyester. Some steel parts are zinc-plated. Not lacquered aluminium parts are anodised. Visible wooden parts are lacquered.

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