

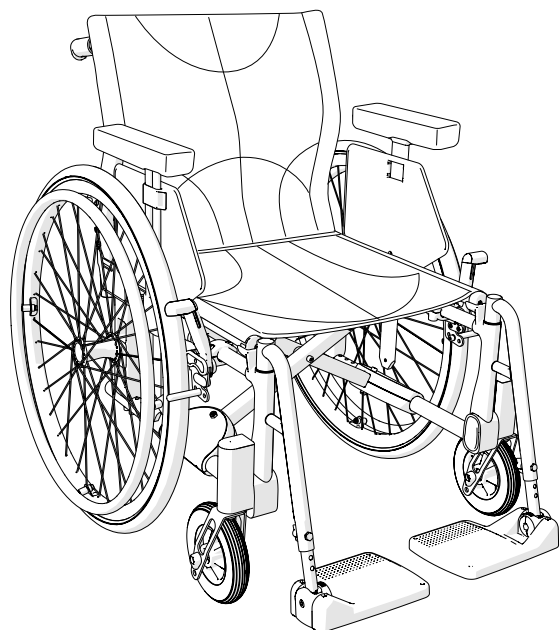


# User manual

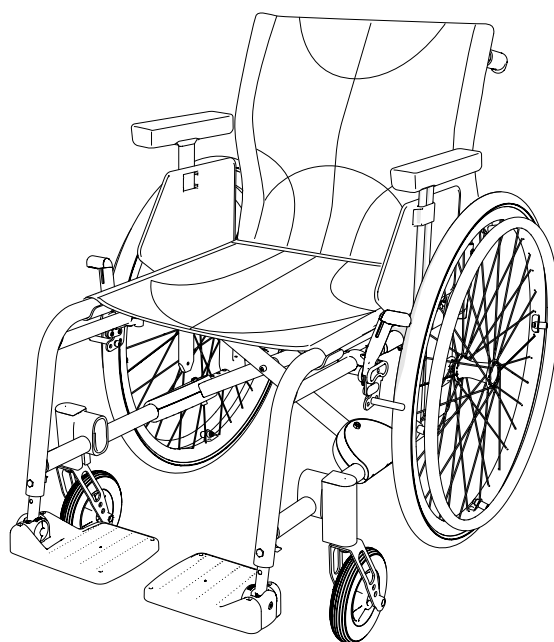
## Crissy

**etac**<sup>®</sup>  
Creating Possibilities

75369 - 2025-02-20 - Version 12



Etac Crissy Swing-Away



Etac Crissy Active

en



[www.etac.com](http://www.etac.com)

MD



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# 1. General

Thank you for choosing an Etac product. In order to avoid damage during assembly, handling and use, it is important to read this manual and save it for future reference. You can also find it at [www.etac.com](http://www.etac.com). You can select your language via the "International" and "Local websites" link. Here you will also find other product documentation, such as prescriber information, pre purchase guide, and reconditioning instructions.

In this manual the User is the person sitting in the chair. The caregiver is the person helping the user.

Information on how people with impaired vision can access the manual can be found in our presales guide at [www.etac.com](http://www.etac.com).



To avoid damage or injury during handling and use, this manual should always accompany the device.

## Device description

Crissy (hereafter also referred to as "the device" or "the product") is a manual wheelchair with cross-folded frame. Crissy is adaptive and configurable through adjustable settings, options and accessories.

## Intended purpose

Crissy is an assistive device intended for the alleviation of or compensation for a physical impairment due to an injury or disability. The device is designed for mobility. The device is designed for hand and/or foot propulsion and/or to be pushed and steered by an assistant.

## Intended user group

The user group for the device is based on the individual's functional ability and not on a specific diagnosis, health condition or age. The device is intended for individuals with a height of 146 cm or more, or a mass of 40 kg or more.

Secondary users of the device are attendants providing assistance and clinicians/technicians who set up the device.

## Intended environment

The device is intended for indoor and outdoor use on levelled ground and accessible terrain. It is not to be exposed to salt water. The device has fixation points for transport in motor vehicle.

## Intended application

The device is intended for short-term and long-term use. The device is intended to be used with a seat cushion. The device is intended for refurbish and reuse. Follow the instructions in "Reconditioning instruction, Etac manual wheelchairs" on [www.etac.com](http://www.etac.com).

## Expected service life

The expected service life of the device is 5 years. Preventive maintenance is recommended. Lack of maintenance may reduce the expected service life of the device. For full information on the expected service life, see [www.etac.com](http://www.etac.com).

## Indications

Indication for use is disability, including, but not limited to, an impaired ability to ambulate.

## Contraindications

There are no known contraindications.

## Warnings

Warnings describing a risk element for a specific action or setting of the device can be found in the relevant section.



A defective device must not be used. Risk of injury.



Do not leave the device in direct sunlight. A hot device may cause burns



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.



This device can be adjusted beyond safe use! Adjustments should only be carried out by a person who understands the use of the device.

## Declaration of conformity

The device conforms with MDR (EU) 2017/745.

The device is tested and conforms with EN 12183 (which includes fire testing according to ISO 8191-2) and ISO 7176-19.

## Pre-purchase information

Pre-purchase information can be found at [www.etac.com](http://www.etac.com).

## Adverse event

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

## Customization

Actions outside the instructions and settings in the manual will invalidate the CE marking according to MDR 2017/745 and void the warranty.

## Miscellaneous

Etac regularly improves its products. We therefore reserve the right to modify the products without prior notice. The dimensions given on drawings or other material are solely for guidance.

We are not responsible for printing errors or incomplete information.

## Tools



Allen key  
3, 4, 5, 6 mm



Socket spanner  
8, 10, 13, 24 mm

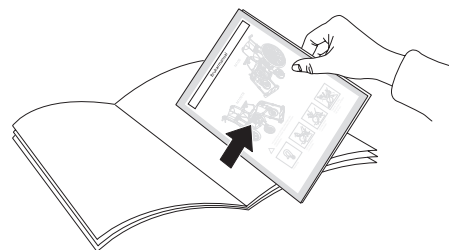


Socket wrench  
19 mm



Screwdriver  
Ph 2

In the centre spread of this manual you will find a removable section that contains user information.



## Explanation for list of points

- Applies to model
- ✱ Standard for this model

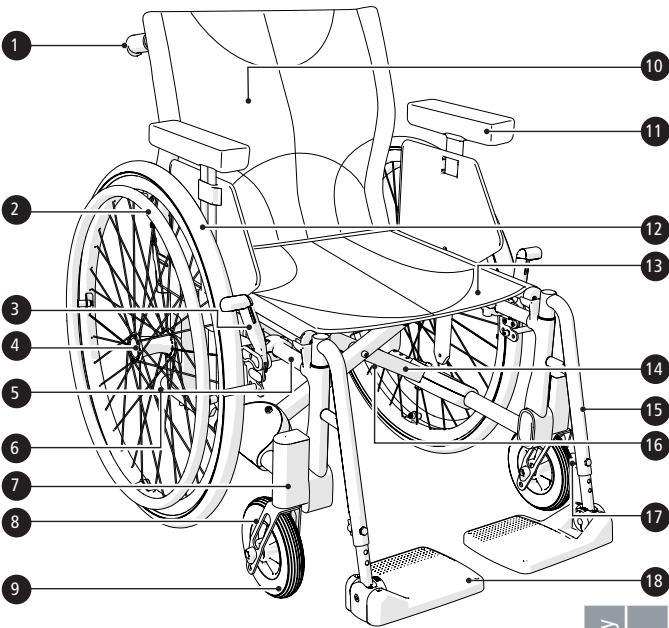
Etac Crissy Active

Etac Crissy Swing-Away

Swing-Away  
Active

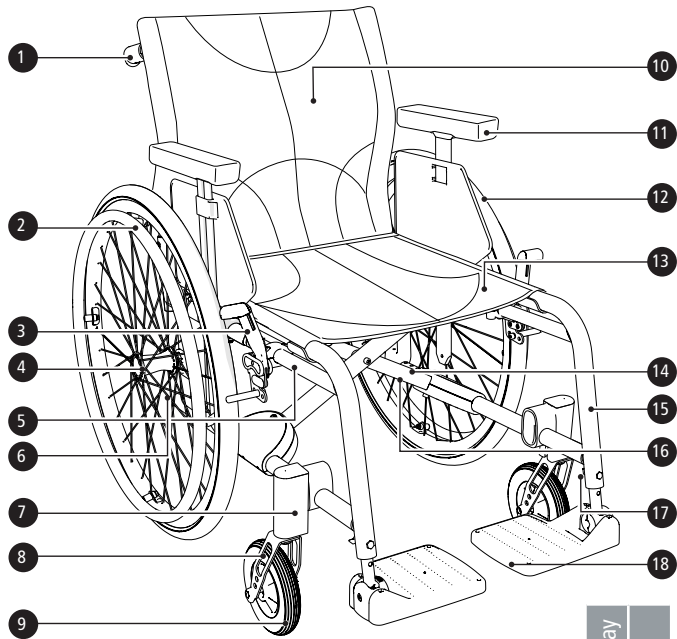
2. Description/Standard version

Etac Crissy Swing-Away



		Swing-Away	Active
1	Push handle	●	●
2	Handrim	●	●
3	User brake	●	●
4	Quick release hub	●	●
5	Side frame	●	●
6	Tilter	●	●
7	Front fork attachment	●	●
8	Front fork	●	●
9	Castor wheel	●	●
10	Back support upholstery	●	●
11	Arm support	●	●

Etac Crissy Active



		Swing-Away	Active
12	Rear wheel	●	●
13	Seat upholstery	●	●
14	Cross	●	●
15	Detachable leg support (on Crissy Active, fixed and integrated i ramen)	●	
16	Serial number*	●	●
17	Knob footplate lock	●	
	Locking nut footplate lock		●
18	Footplate	●	●

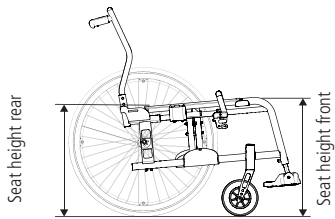

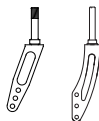


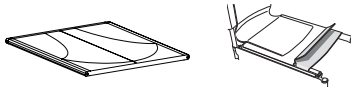

\*The device's date of manufacture can be read from the barcode on the device. The number 11 is shown below the barcode in brackets. The number combination after these brackets is the date of manufacture.





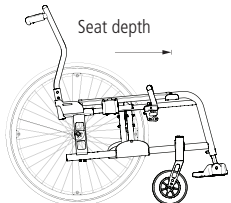
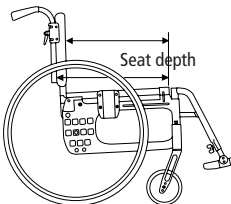
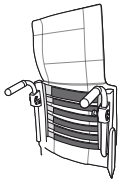
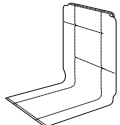
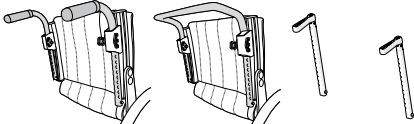
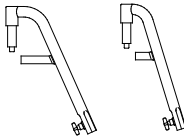
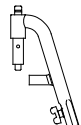
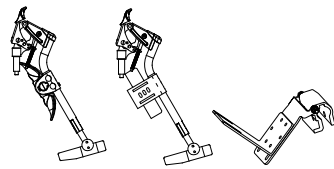
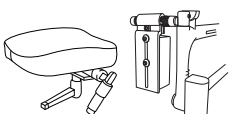
### 3. Chair options

In the "Chair options" section you can see all the adjustments that can be made to the wheelchair. In addition, there are so-called "Non-standard combinations", e.g. for rear wheels, castor wheels and back support models. Contact customer service.

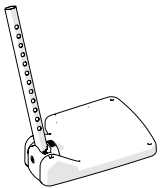
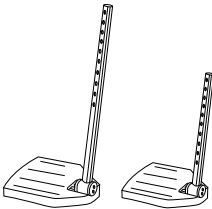
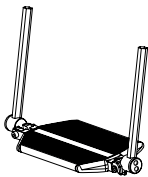
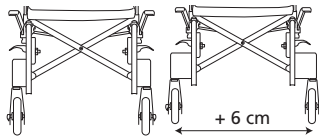
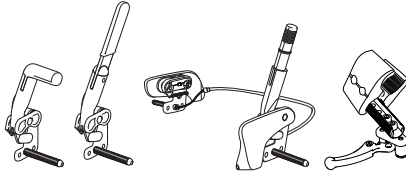
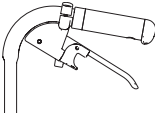
For more information about chair options, see [www.etac.com](http://www.etac.com)

				Swing-Away	Active
Seat height		Front	40.5-55 cm	●	●
		Rear	38.5-51 cm	●	●
Seat angle		Max. forward angle: 2 cm lower front than back (3°) Max. backward angle: 6 cm higher front than back (9°)		●	●
Castor wheel		5" solid		●	●
		6" semi-solid		●	●
		8" semi-solid		●	●
		5" 125x28 og 125x34, 45 mm hub width		●	●
		6" 150x34, 45 mm hub width		●	●
		8" 200x38, 45 mm hub width (only for swing-away leg supports)		●	●
Front fork		Short (three height settings for castor wheels)		●	●
		Medium (three height settings for castor wheels)		●	●
		XS aluminium, 45 mm hub width		●	●
		S aluminium, 45 mm hub width		●	●
		S +25 aluminium, 45 mm hub width		●	●
Rear wheel		22" C5 or Maxx		●	●
		24" C5 or Maxx		●	●
		24" Carbon (not with attendant brake)		●	●
Tyres		High pressure pneumatic 22" or 24" x 1 1/4		●	●
		High pressure pneumatic 22" or 24" x 1		●	●
		Solid		●	●
		Tyre with solid inner tube (only with attendant brake)		●	●
Handrims		Aluminium		●	●
		Stainless steel		●	●
		Plastic		●	●
		Foam rubber (not with attendant brake)		●	●
		Titanium (not with attendant brake)		●	●
Camber angle		2°		●	●
		0°		●	●
Seat		Padded seat, nylon, 10 mm foam		●	●
		Adjustable seat upholstery		●	●
Fixed back support with fixed push handles, 2B		Height of low back support 35-40 cm Height of high back support 42.5-47.5 cm Fixed angle +5°		●	●

### 3. Chair options

3. Chair options				Swing-Away	Active
Angle adjustable back support		Height of low back support 35-40 cm Height of high back support 42.5-47.5 cm Angle -5° – +5°		●	●
Back support 2C		Height 37-47 cm Angle +5°		●	●
Seat depth		41/43/45 cm in frame (S, M, L) 37-45 cm with upholstery		●	●
Seat depth Back support 2C		41/43/45 cm in frame (S, M, L) 37-45 cm with upholstery		●	●
Back support upholstery		Adjustable upholstery		●	●
Back support cover		Airmesh (Back support 2B)		●	●
		Standard (Back support 2C)		●	●
Push handle/Push brace		Height-adjustable in 2 cm intervals. Detachable.	Push handle	●	●
			Push brace	●	●
			Push handle Swing-away	●	●
Leg supports, detachable, swing-away		Normal knee angle		●	
		Narrow (only fits with 5" castor wheels)		●	
Leg support Lockable		Normal knee angle		●	
		Narrow		●	
Leg support Angle-adjustable		Angle adjustable with flip-up calf support from 40 cm seat width		●	
		Angle adjustable with cushion bracket and padded flip-up calf support		●	
		Angle adjustable with flip-up cushion bracket and padded calf support		●	
Leg supports, other		Amputee leg support		●	
		Amputee weight		●	


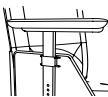

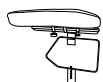


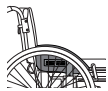

### 3. Chair options

				Swing-Away	Active
Foot support		15 cm deep Folding, angle and depth-settable. Attachment tubes adjustable in height	Standard attachment tubes Max. length: 51 cm. Min. length: 33 cm.	●	●
			Extended attachment tubes +10 cm	●	●
		13 cm deep. Folding, angle and depth-settable. Attachment tubes adjustable in height	Standard attachment tubes Max. length: 51 cm Min. length: 33 cm	●	●
			Extended attachment tubes +10 cm	●	●
		One-piece footplate. Attachment tubes adjustable in height		●	●
Front fork attachment		Standard		●	●
		Widened 6 cm		●	●
User brake		Angled handle		●	●
		Extended handle (foldable or fixed)		●	●
		Single hand brake		●	●
		Scissor brake With 22" drive wheels, not in positions A5–F5 and A4–B4. With 24" drive wheels, not in positions A5–B5.		●	●
Attendant brake		Brake handle 100 mm grip (only with 2C back support)		●	●
Frame colour	01 = Black    74 = Silver-white    75 = Ruby-red    76 = Champagne    77 = Menthol			●	●
Colour of rear wheel attachments	01 = Black    75 = Ruby-red    76 = Champagne    77 = Menthol			●	●

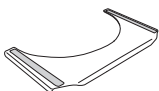

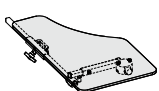




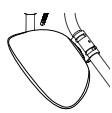

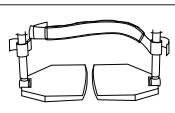
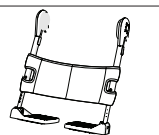

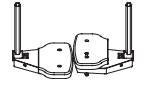
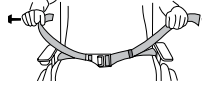
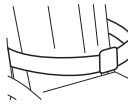
## 4. Accessories

Assembly instructions are provided with all accessories when they are supplied by Etac.  
You can find the instructions as well as more information about the accessories on our website [www.etac.com](http://www.etac.com).





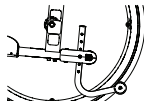
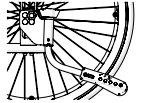




Settable= Adjusted using tools. Adjustable= Adjusted without tools.

			Swing-Away	Active
Arm supports	Height-adjustable 20–25 cm. Length 25 cm, solid top, black		●	●
Arm supports	Height-adjustable 20–25 cm. Length 38 cm, solid top, black		●	●
Arm support cover	Removable, 25 or 38 cm long, padded or gel, dark grey plush or black Hygiene. Fits arm support with solid top.		●	●
Arm support cushion Hemi	Swing-away for fitting on long arm supports		●	●
Arm support locking Kit	A locked arm support is not detachable but its height can be set freely.		●	●
Side cover	Black		●	●
Mudguard	Right or left		●	●
Tray	Transparent, fits onto long arm supports		●	●

## 4. Accessories

			Swing-Away	Active
Hemi tray	Transparent, width 35-50 cm. Can be fitted onto short or long arm supports.		●	●
Anti-slip device for the Hemi tray			●	●
Hemi tray/Communication tray half	Right/left		●	●
Seat extender	With long seat depth		●	●
Seat cushion	Dark grey plush and black velour, 56 cm, cut according to seat depth set, washable cover		●	●
Seat cushion Tidy	Water-repellent, wipeable		●	●
Comfort wedge	For the cushion, evens out the front part of the seat		●	●
Cover for calf support	On angle-adjustable leg support, black Hygiene		●	●
Calf strap	Detachable, black nylon, length-adjustable		●	●
Padding	For calf strap		●	●
Calf pad	Plush. Fitted/adjusted with Velcro		●	●
Heel strap	Black nylon, adjustable length		●	●
Extended footplate	Fits onto the existing footplate, seat width 40-55 cm		●	●
Positioning belt	Two-piece with snap lock, fixing points on the wheelchair frame		●	●
Belt	With snaplock		●	●

## 4. Accessories

			Swing-Away	Active
Head support, traditional	Adjustable in height, depth and angle. Only with Back support 2C		●	●
Fixed head support	For fitting onto push brace		●	●
Cross brace (for back support)	For Back support 2C. With snaplock		●	●
Back wedge	Three different sizes, fixed with Velcro. Creates support and shape in the back support. The wedges can be combined with other accessories and adapted to the desired size, and several wedges can be combined.		●	●
Back wedge	Dark-grey plush, 15 and 30 cm		●	●
Side cushion	Provides gentle lateral support. Used when the trunk support is too stabilising. (Combined with arm support and, if necessary, side stop)		●	●
Anti-tip	Foldable, settable in height		●	●
Anti-tip active	Settable in height, foldable from the users position. Not in combination with attendant brake		●	●
Cane holder	In two parts, one of which is an elasticated section fastened around the cane.		●	●
Spoke protectors	With grey or yellow print		●	●
Tool kit			●	●
Gloves	Information at <a href="http://www.etac.com">www.etac.com</a>		●	●

## 5. Installation upon delivery

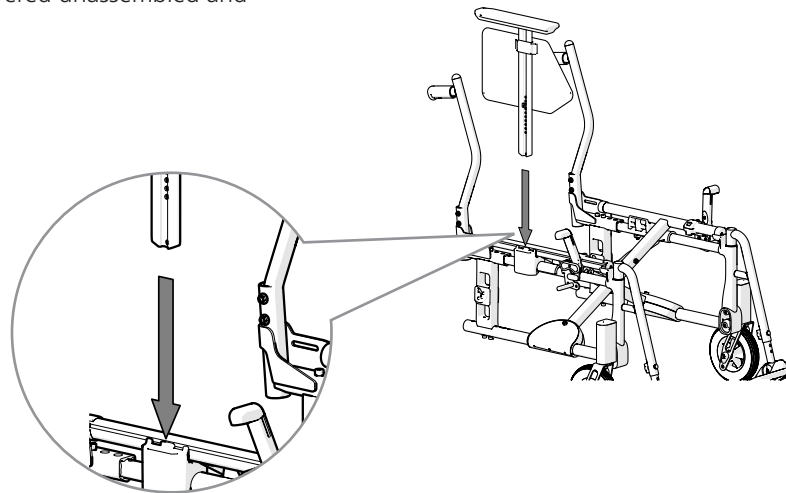
### Leg supports

Leg supports with foot plates are delivered unassembled and must be mounted upon delivery (see section "Handling").

Swing-Away	Active
●	
●	●

### Arm supports

Arm supports/side covers are delivered unassembled and must be mounted upon delivery.





## 6. Settings

Swing-Away

Active

### Front seat height

Front seat height is adjustable using:

- Front fork attachment, adjustable height and angle
- Changing height in front fork.
- Changing front fork
- Changing castor wheels



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.

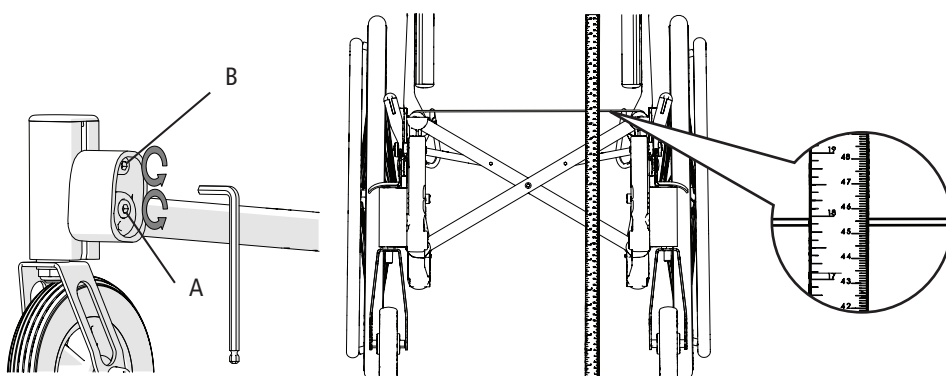
### Seat height adjustment using front fork attachment

Loosen the screws (A and B) on both castor wheel attachments. Set the desired seat height by measuring from the floor to the top edge of the seat frame (press down the frame in the cup while measuring) and tighten the upper screw (B) on one front fork attachment. Adjust so that the attachment is perpendicular. (See 'Angle setting of front fork attachment' section.) Tighten the lower screw (A). Repeat the

procedure for the other attachment. Fine-tune the height of the front fork attachments by loosening the screws a little and carefully knocking on the front fork attachment. Make sure both castor wheels are touching the ground. Tighten the screws.



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.



6 mm

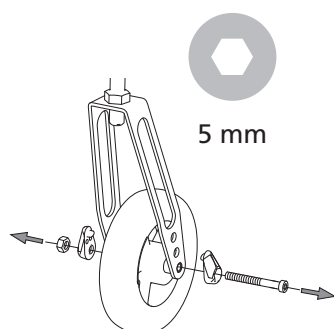


### Seat height adjustment using the castor wheels' position in the fork

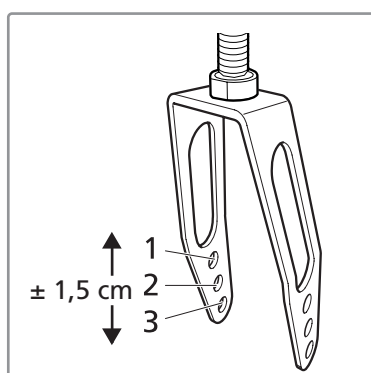
See also section "Front seat height table".



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.

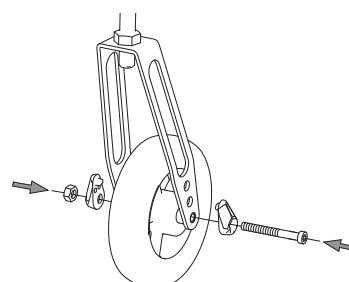


5 mm



± 1,5 cm

1  
2  
3



## 6. Settings

### Seat height adjustment by replacing the front fork/caster wheel

See the "Seat height adjustment using the castor wheel position in the fork" and "Front seat height table" sections.



5 mm

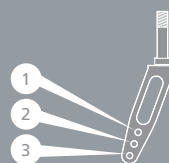
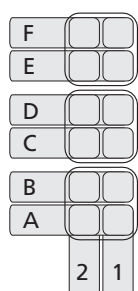


19 mm



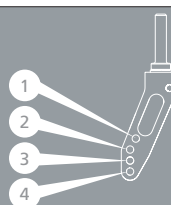
Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.

### Front seat height table



Seat height table 57 mm hub width

	Rear wheel position	Castor wheel	Short Fork			Medium Fork		
			1	2	3	1	2	3
Standard/Widened - castor wheel attachment	A-F	5"	405-440	425-460	440-475		455-490	480-515
		6"	-	440-475	455-490	445-480	470-505	495-530
	A-C	8"*	-	-	-	-	490-525	515-550



Seat height table 45 mm hub width

		Front fork alu S with axle				Front fork alu S with axle +25			
		1	2	3	4	1	2	3	4
Castor wheel attachment H65	5"	400	410	425	435	425	435	450	460
	6"		425	435	450			460	475
	8"				475				500
Castor wheel attachment H100	5"	400-440	410-450	425-465	435-475			450-490	460-500
	6"		425-465	435-475	450-490			460-500	475-515
	8"*				475-515				500-540

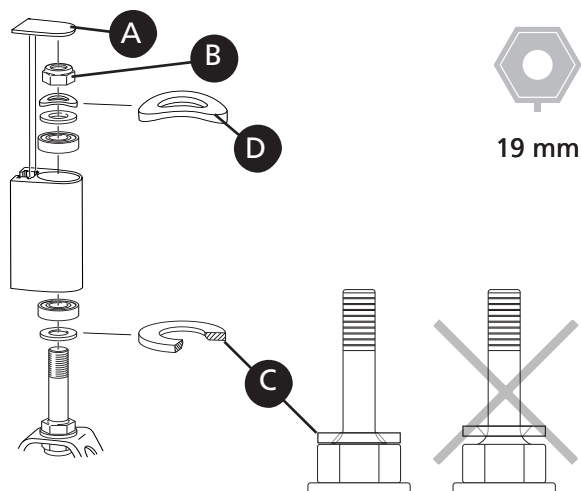
For correct installation of front fork attachment: Max. backward inclination 6 cm higher front than back (9°), max. forward inclination 2 cm lower front than back (3°).

\* Only Etac Crissy Swing-Away

## 6. Settings

### Disassembly/assembly of the front fork

- Remove the cover plug (A) and loosen the retaining nut (B). Pull out the front fork and transfer the bevelled washer (C) and ball bearing to the new fork.
- Mount the washers and ball bearings in the front fork attachment as illustrated. Place the washer (C) with the bevelled side towards the fork. Place the spring washer (D) uppermost under the retaining nut.
- Tighten the retaining nut until it comes to a stop and then release it by  $\frac{1}{2}$  – 1 turn. The spring washer then has the correct tension, which reduces the risk of the castor starting to "wobble".
- Fit the cover plug.



### Angle setting of front fork attachment

The correct angle setting is important for the wheel-chair's manoeuvrability.

Loosen the attachment screw (A) about 2 turns so that the tag (C) moves freely inside the shaft.

Insert the Allen key in the hole (B) and turn until the attachment is 90° to the floor. Always start from a position that enables the wheel to move forward in the rotation (D).

Press in the shaft and hold it in the correct position while tightening the attachment screw.



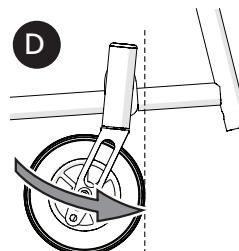
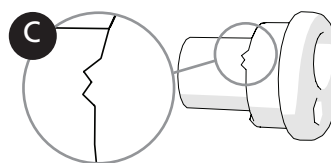
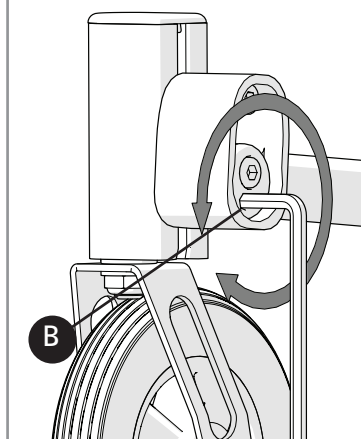
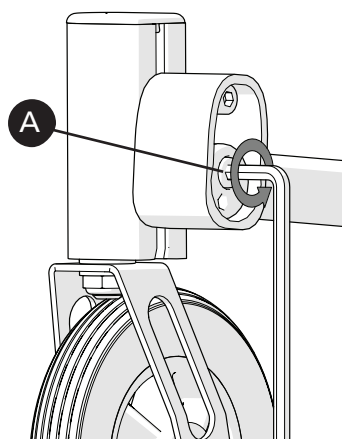
Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.



Keep your eye on something vertical, e.g. a doorpost or a table leg when setting the angle.



6 mm



## 6. Settings

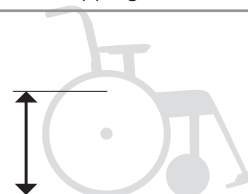
### Rear seat height

The rear seat height can be adjusted using:

- The rear wheel's (camber washer's) position in the rear wheel attachment.
- The camber washer's position (rotation) in each rear wheel attachment opening.
- Changing the rear wheel



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.

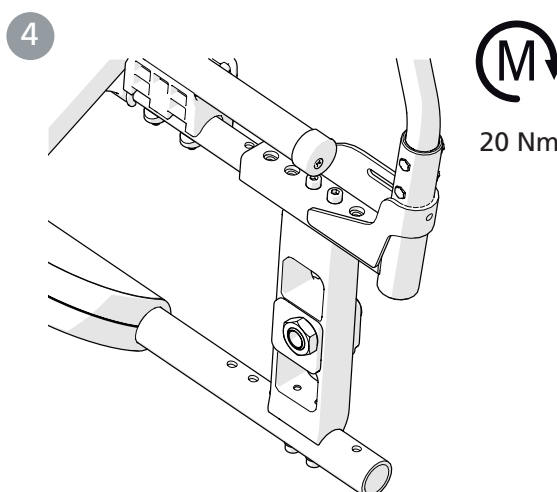
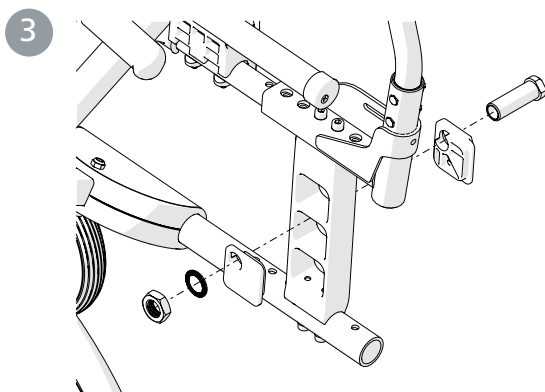
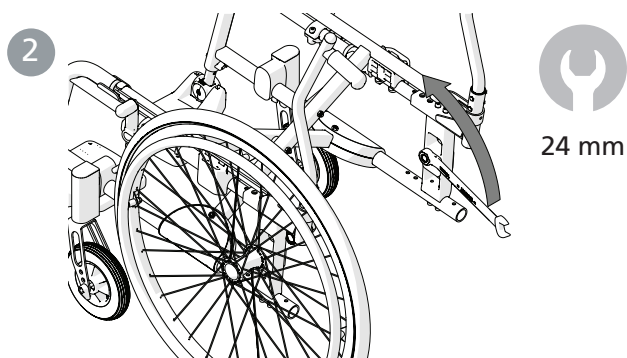
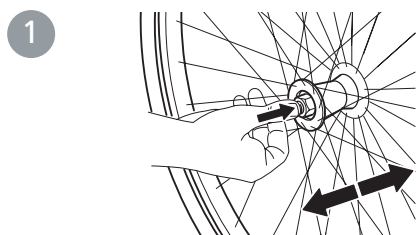


### Seat height adjustment using the rear wheel position/rear wheel

1. Remove the rear wheel
2. Loosen the nut.
3. Open the kit with the washers and install at the required position (see table in section "Seat height table"). See also section "Changing camber angle").



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.



Swing-Away  
Active

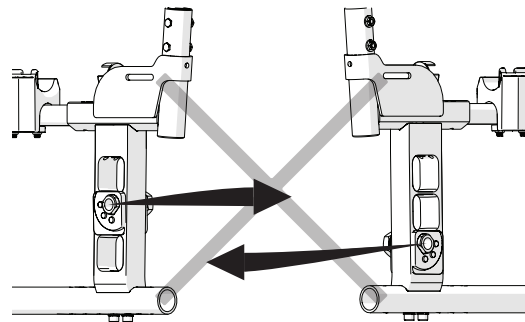
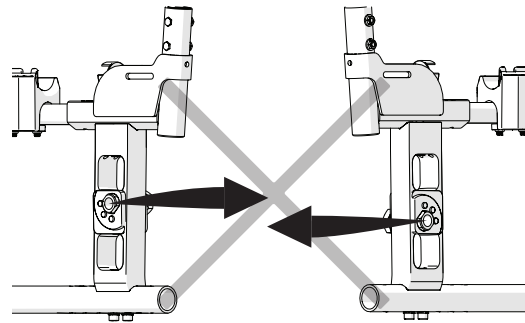
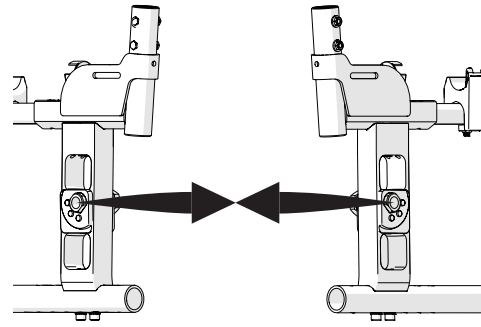
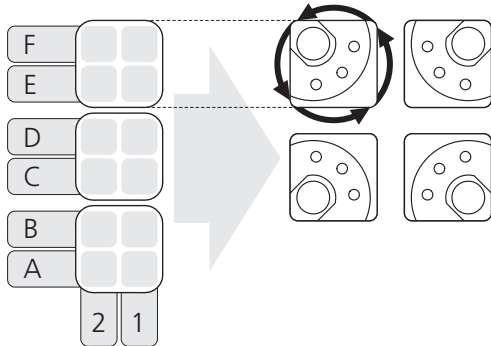
● ●

● ●

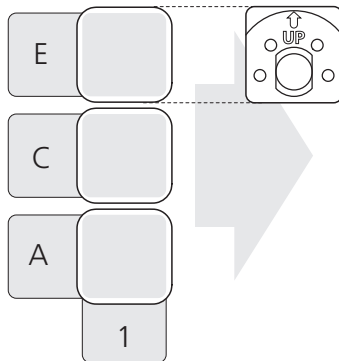
## 6. Settings



When attaching the rear wheels, make sure that the quick-release button fully returns. Test by pulling the wheel. Risk of injury.



Fitting 0° Camber

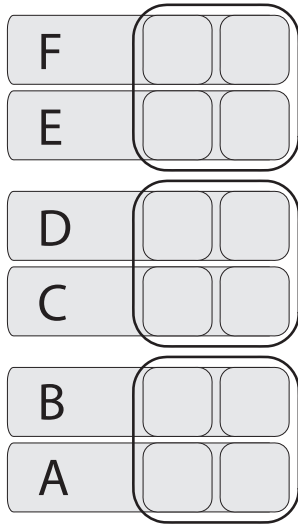


Swing-Away	Active
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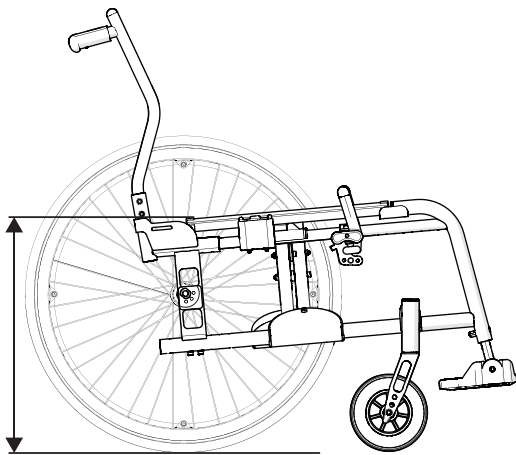
## 6. Settings

### Rear seat height table

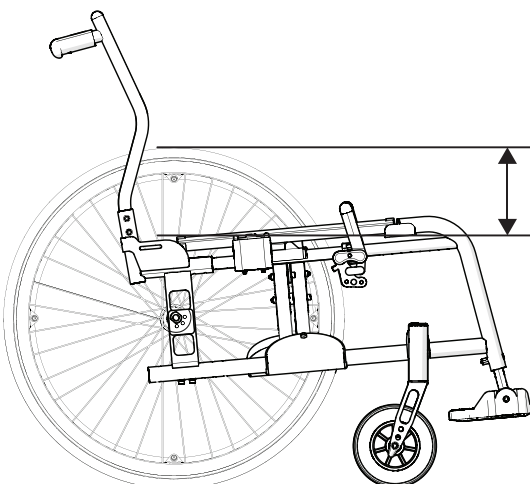
Rear wheel position height



Seat height rear



Distance rear wheel to seat



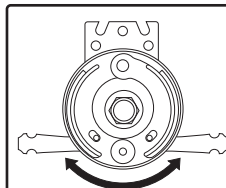
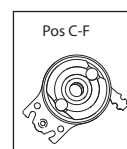
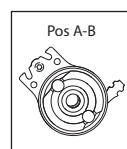
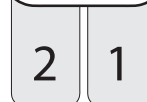
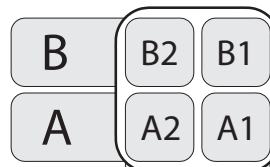
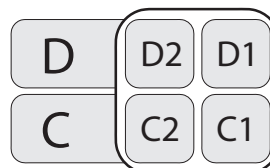
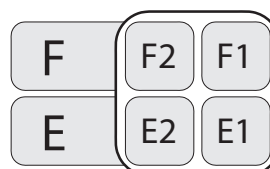
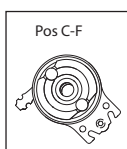
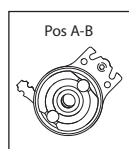
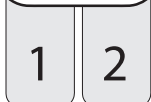
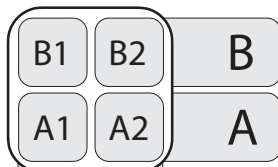
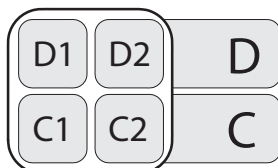
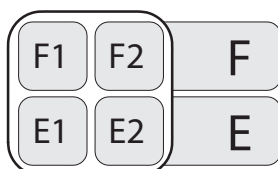
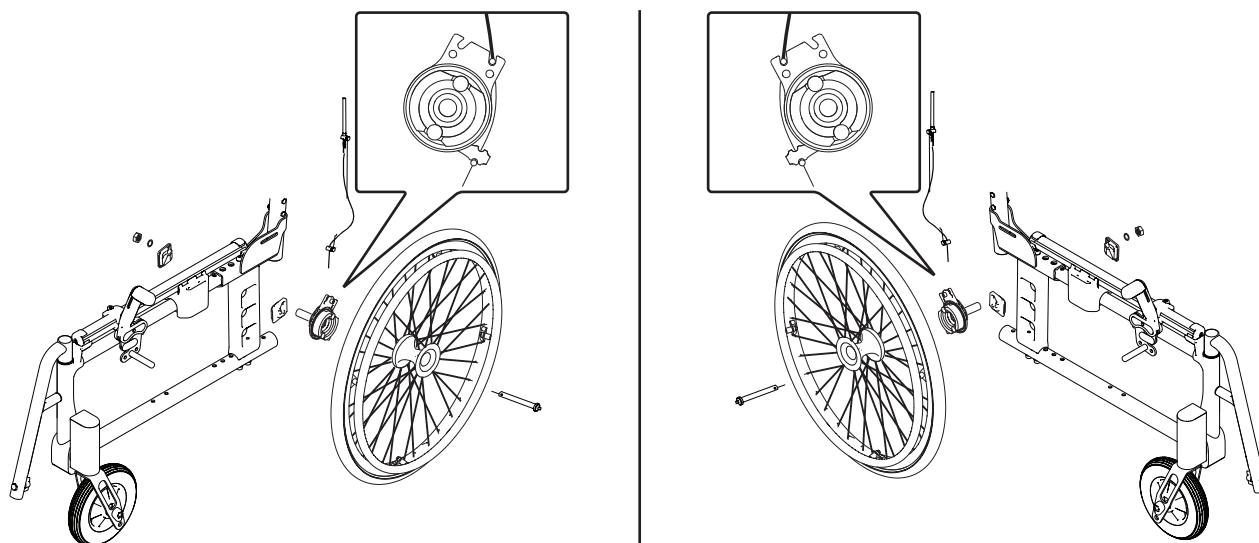
	Rear wheel	Seat height	Distance	Swing-Away	Active
Position A	22"	48.5 cm	7.0 cm	●	●
	24"	51 cm	9.5 cm	●	●
Position B	22"	46.5 cm	9.0 cm	●	●
	24"	49 cm	11.5 cm	●	●
Position C	22"	44.5 cm	11.0 cm	●	●
	24"	47 cm	13.5 cm	●	●
Position D	22"	42.5 cm	13.0 cm	●	●
	24"	45 cm	15.5 cm	●	●
Position E	22"	40.5 cm	15.0 cm	●	●
	24"	43 cm	17.5 cm	●	●
Position F	22"	38.5 cm	17.0 cm	●	●
	24"	41 cm	19.5 cm	●	●

## 6. Settings

### Attendant brake

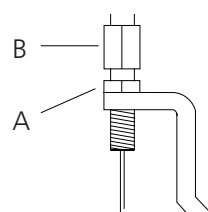
Swing-Away

Active



The brake arm can be turned.

When adjusting the brake loosen nut (A) and adjust the brake by screwing (B) up/down. When the brake has a reasonable effect tighten nut (A). This adjustment should be carried out when the brake is not functioning satisfactorily.

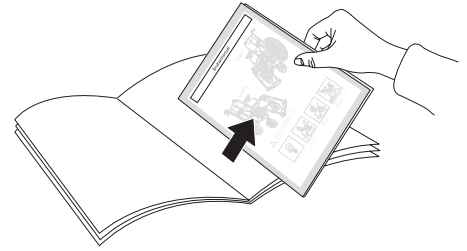


8 mm

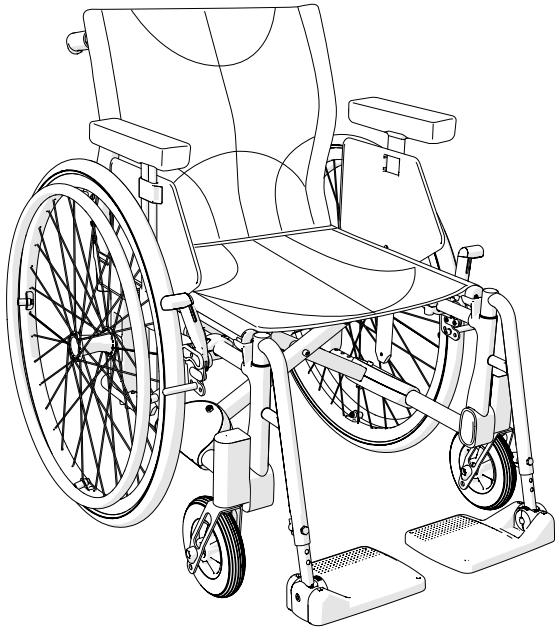


# User manual

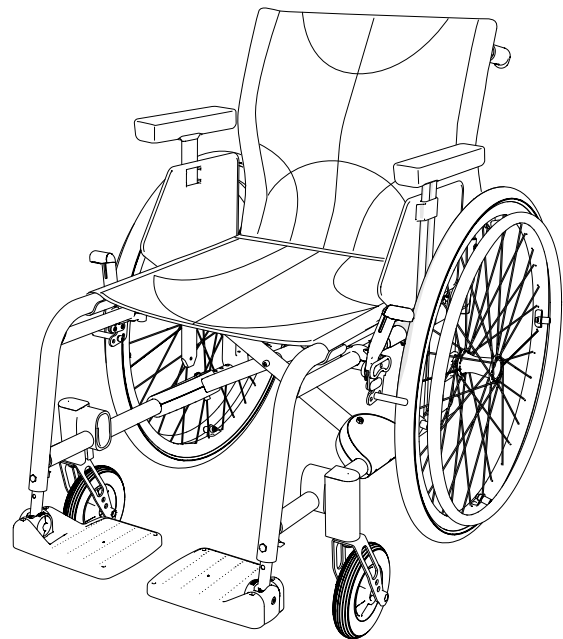
75369.12 2025-02-20



This part of the manual (User Manual) can be removed and supplied with the wheel-chair as it contains important user information.



Etac Crissy Swing-Away



Etac Crissy Active

# User manual

## Symbols and warnings

### Symbols

These symbols appear in the manual.



Warning, precaution or limitation



Useful advice and tips.



Material for recycling



The part/function is unlocked and can be moved/adjusted.



The part/function is locked and can not be moved/adjusted.



Click on the icon or scan the QR code for video



Showing **1** of two options



Showing **2** of two options

### Symbols

These symbols appear on the device.



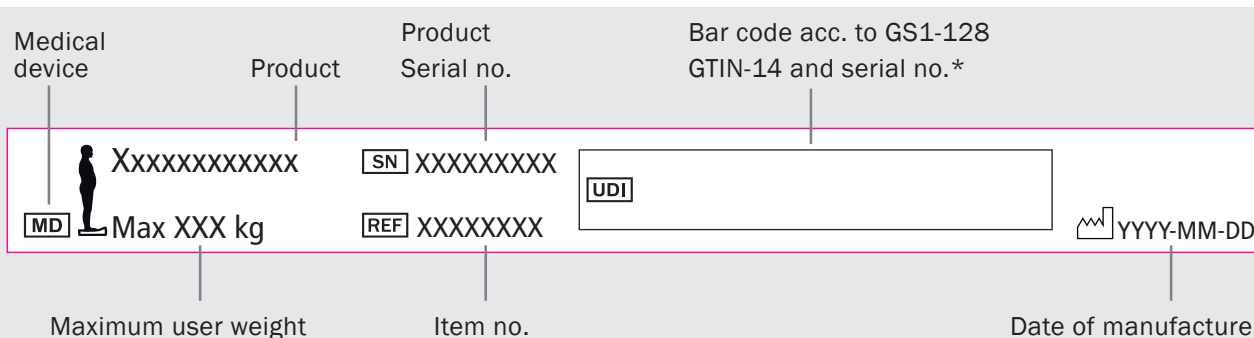
Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.



Anchoring. Fixing points for the clamping system for transport in motor vehicles.

### Product label

Article information.



\*The device's date of manufacture can be read from the barcode on the device. The number 11 is shown below the barcode in brackets. The number combination after these brackets is the date of manufacture.

Chairs width and length



CE marked



Manufacturer

# User manual

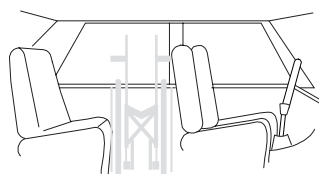
## Transportation in vehicles

Etac recommends in the following order:

- 1) The user transfers to one of the seats in the vehicle and uses the vehicle's 3-point belt while travelling. The wheelchair is then placed in the boot or safely in the back seat so that it cannot overturn or roll.



- The wheelchair should primarily be placed in the luggage compartment
- If the wheelchair is placed on the back seat, ensure that it cannot overturn or roll. If possible secure the wheelchair with the car's safety belt.



- 2) The wheelchair is secured facing forwards in the vehicle as per this manual; the user uses a separate 3-point belt secured in the vehicle.

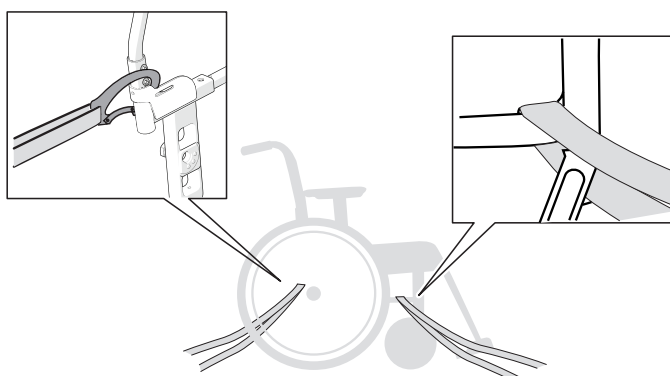
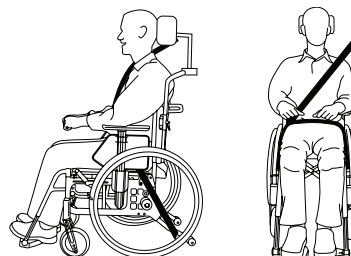
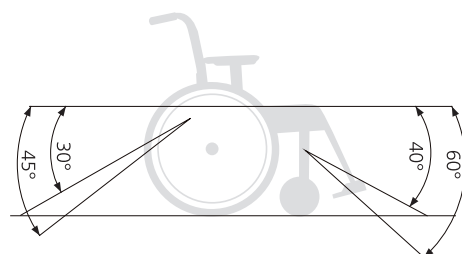
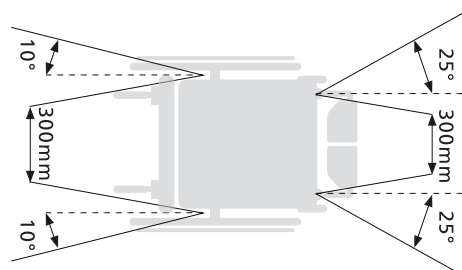


This is the way the wheelchair is tested and approved according to ISO 7176-19:

- Clamping device UNWIN\_WWR/ATF/K/R according to ISO 10542
- Three point strap 907523, Klippan Safety AB.
- Parking brakes activated
- Anti-tip guards activated
- Head support
- Rear wheels with handrims.

### Securing

- Rear transport attachment must be used
- The restraining device must not be passed through the wheels or around the back tubes.
- Accessories that can be detached without tools must be removed and clamped



- 3) According to Directive 2001/85/EC, appendix VII, point 3.8.3, there may be specially marked wheelchair locations in vehicles that permit transport with a wheelchair facing in the direction of travel. If this means of travel is used, the user/carer must be aware while travelling, prepared for sudden movements and have the capacity to maintain a safe sitting position throughout the entire journey. The user's disabilities must not be of such an extent that he/she is not able to hold onto the handles fitted in the vehicle when there are changes of speed or direction.



- Parking brakes activated.
- Anti-tip guards activated
- Accessories that can be detached without tools must be removed and clamped
- Head support
- Positioning belt should be used.

# User manual

## How to use

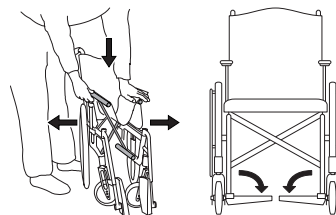


### Unfolding

- Push down on one side of the seat frame, using the whole of the flat of the hand.
- Flip down the foot supports.

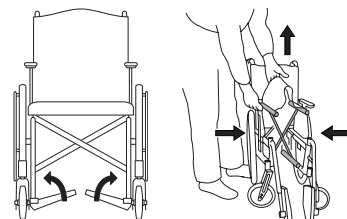


Do not hold the seat tube when unfolding the wheelchair. Risk of injury.



### Folding

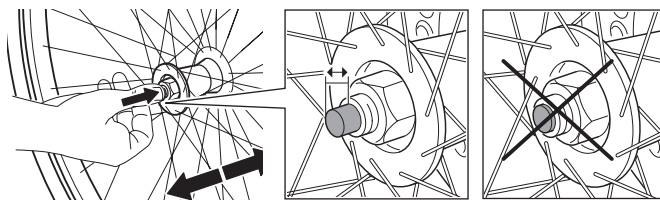
- If a push brace and/or cross brace are fitted they should be removed.
- Flip up the foot supports.
- Lift the seat upwards.



### Rear wheel with quick release hub

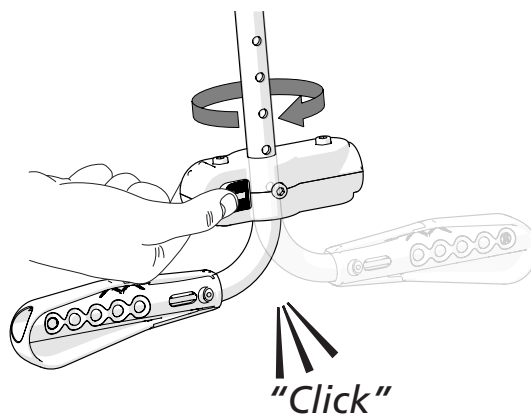


When attaching the rear wheels, make sure that the quick-release button fully returns. Test by pulling the wheel. Risk of injury.

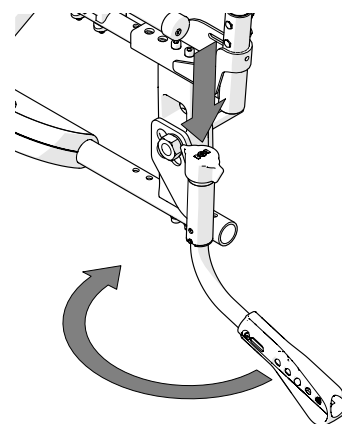


## Anti-tip

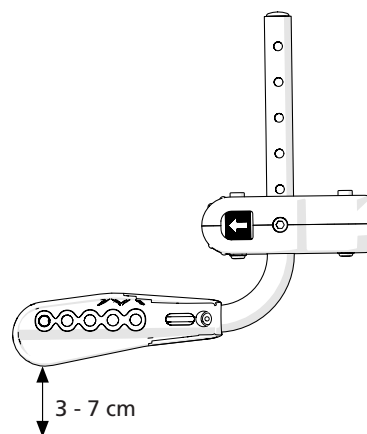
- The anti-tips can be folded away/deactivated.



- When you activate the anti-tip, ensure that the locking pins are properly engaged.



- After all adjustments to the chair, the anti-tip function must be checked. If the anti-tips need to be adjusted, contact your technical aids centre.



# User manual

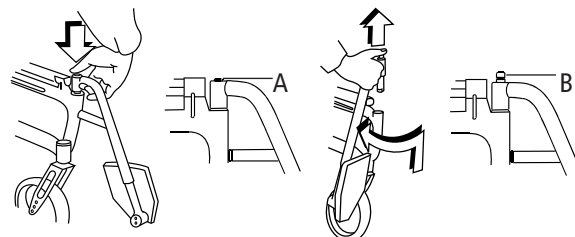
## Leg supports/lockable leg supports (Etac Crissy Swing-Away)

The leg supports can be lifted off/swung to the side as needed. Lockable leg supports by pressing the red button (A).

To attach the lockable leg supports, press down on the red button (A), put the leg support into place and release the button. The leg support is now locked (B).



Check that the lockable leg supports are locked before lifting. Risk of injury.



## Push handle/push brace, height-adjustable

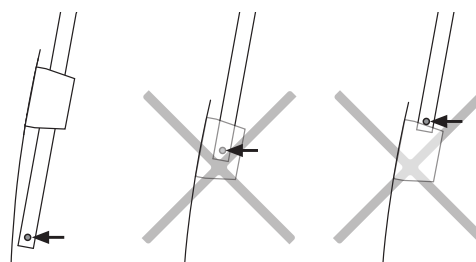
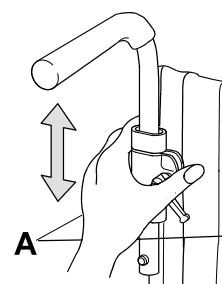
Loosen knob (A). Press in the red wedge and set the desired height. Ensure that the push handle is in a "snap lock" position, and tighten the knob.



Make sure the knobs are properly tightened and that the safety buttons have popped out below the brackets.

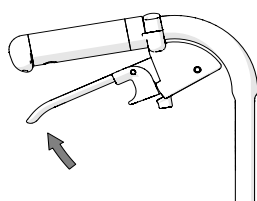


The bow handle must be removed before the chair can be folded.



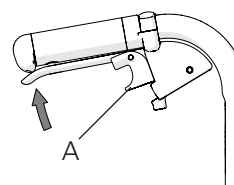
## Attendant brake (motion brake)

- Brake while in motion by pulling the brake lever upwards.



## Attendant brake (parking brake)

- Activate the parking brake by pulling the brake lever upwards and pressing in button A.
- Release by pulling the lever upwards.



# User manual

## Seating comfort settings

### Seating comfort

Good seating comfort depends on the needs and possibilities available to each individual. The following general guidelines here show what to consider when settings are made.

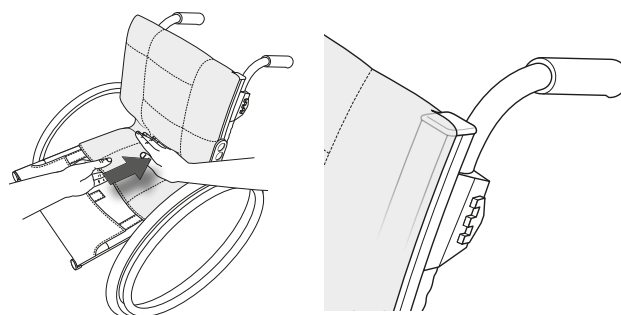
Select a seat cushion with care. Aside from comfort, it has an impact on stability and thereby freedom of movement. Seat cushions also have

different pressure distribution qualities.

The back support setting is a combination of angles, height and shape. This is why the angle settings and height for the back support may need to be adjusted when the back support cover is being adjusted.

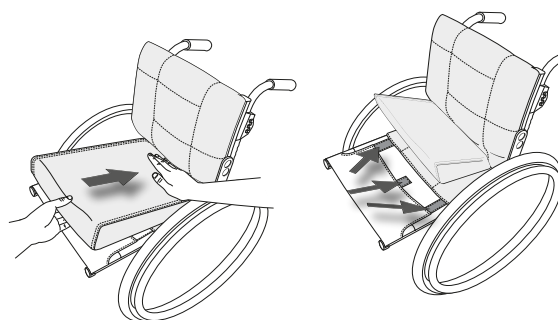
### Back support cover

- Loosen all back straps, but make sure that the Velcro is still stuck together.
- Place the back support cover so that it covers the upper edge of the back rails and forms a crease between the seat and the back support, allowing the user to properly sit in on the seat.



### Seat cushion

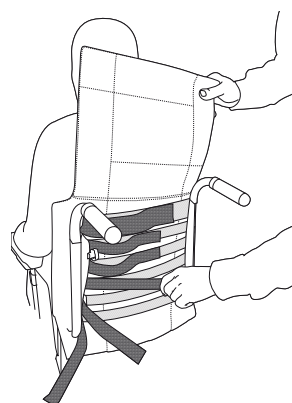
- Make sure that the correct seat depth is set.
- Position the cushion as far back on the seat so that the rounded corners end up between the back rails. Make sure the cushion sticks to the Velcro.
- Measure a suitable seat cushion length and cut it according to supplied instructions.
- A more contoured seat cushion can be obtained by using a comfort wedge which is placed in the cushion cover's pocket under the seat cushion.



### Back support upholstery

The back support upholstery is adjusted with the user sitting in the wheelchair.

- Make sure the user is sitting as far back in the seat as possible.
- Support the pelvis by tightening the strap found just below the lumbar region.
- Then adjust the upper strap to provide the user with upper body support and balance.
- The other straps are adjusted to provide space for the user's posterior and follow the back's natural curvature.



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.



Do not over-tighten the upper Velcro straps as this can prevent the cross-brace from unfolding properly, i.e. the back tubes do not sit flush in the side-frames.

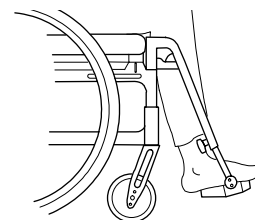
# User manual

## Seating comfort settings

### Footplates

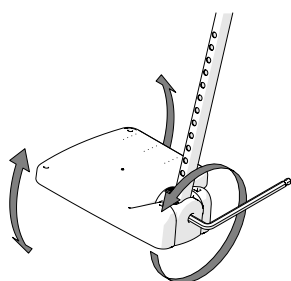
Adjust the height so that you feel the feet are supported and the thighs rest against the cushion.

For outdoor use the footplates should be raised 4 to 5 cm above the ground.



### Angle adjustment

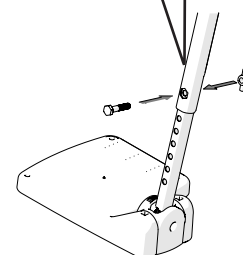
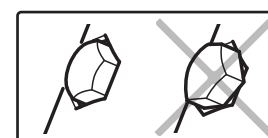
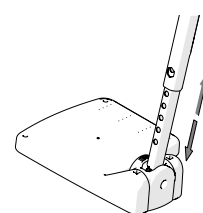
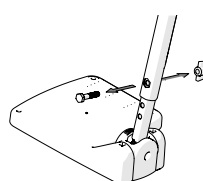
Adjust the angle of the footplates so that the ankles are at a 90° angle.



5 mm

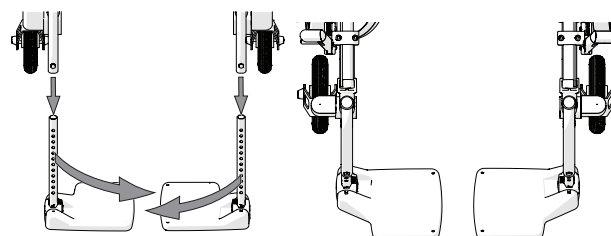
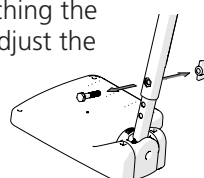
### Adjusting the height

Fully loosen the locking handle on the leg support. Remove the screw. Set the height. Replace the screw and handle. Tighten securely.



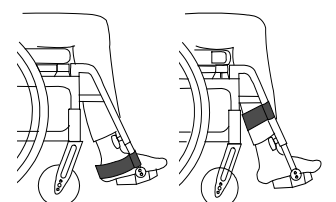
### Changing the depth of the foot supports

Adjust the depth of the foot supports by switching the right and left foot support. Do not forget to adjust the angle.



### Calf/Heel strap

- Adjust the length so that the feet are centred on the footplates.

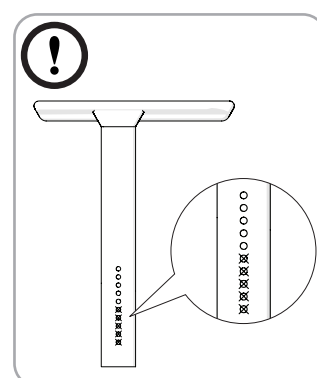
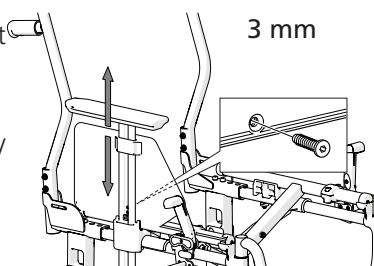


### Arm support (adjustment)

- Loosen the screws on the inside of the arm support tray.
- Move the arm support up or down to the desired height and tighten the screws.
- Correctly adjusted arm supports provide upper body support. The arm support plate should be approximately 5 mm higher than the elbow when bent at an angle of 90°.



3 mm



Only the top five holes may be used (applies to arm support height-adjustable 20–25 cm).



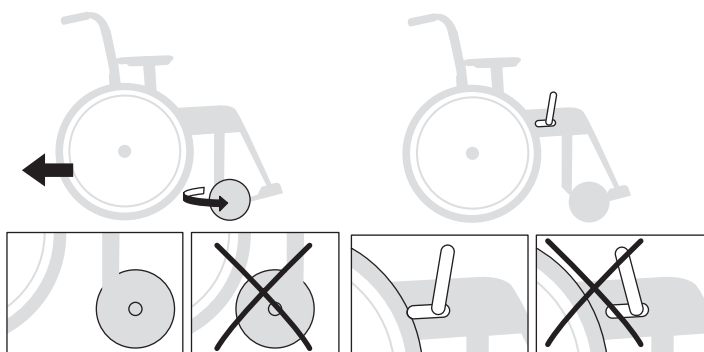
# User manual

## Driving technique, use



### Parking

Turn the castor wheels forwards and activate the brakes.

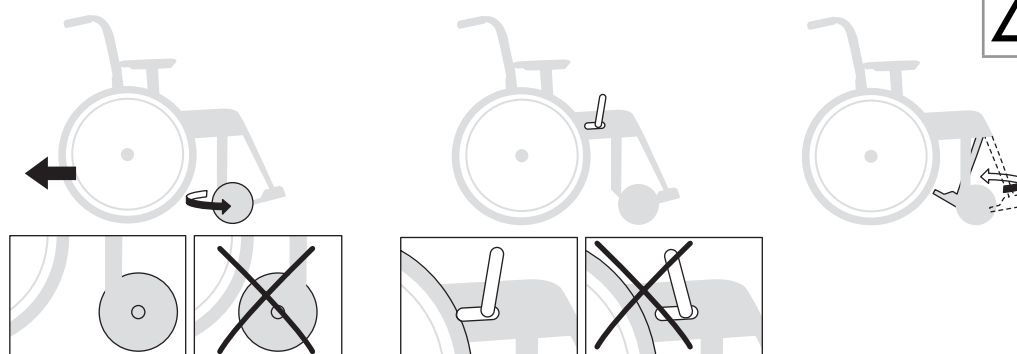


## Transferring to/from the wheelchair

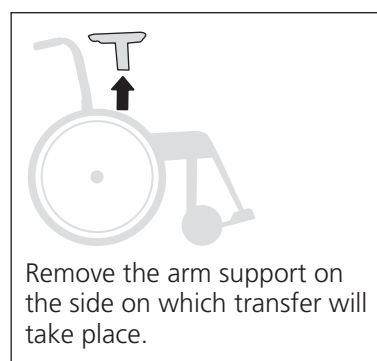
Turn the castor wheels forwards, activate the brakes, flip up the foot supports and twist the leg supports to one side.



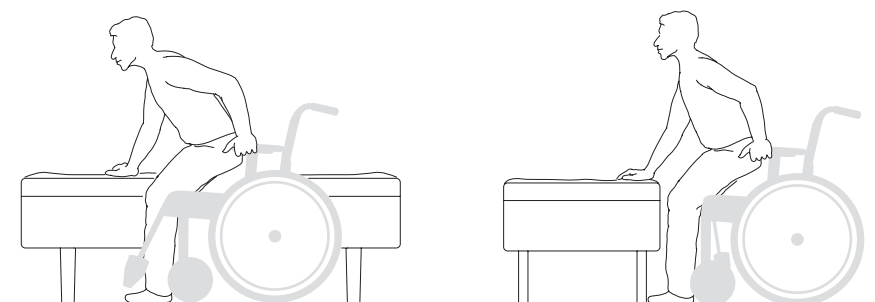
Do not stand on the foot plates. Risk of injury.



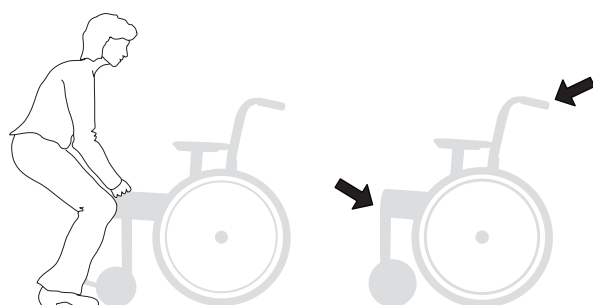
### Sideways



### From the front



## Lifting the wheelchair



Lift the wheelchair by the push handles and the front upper part of the frame or by lockable leg supports. Remove or swing non-lockable leg supports (fixed, elevated, amputee) in under the seat.

Before lifting in the push handles, make sure the knobs/locking handles are properly tightened/locked and that the safety buttons have popped out below the brackets.



Check that the lockable leg supports are locked before lifting. Risk of injury.

# User manual

 The following illustrations show principles of driving technique and obstacle clearance.



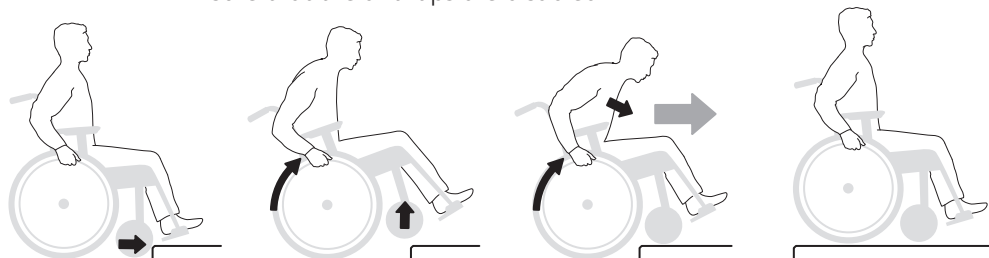
Tipping risk.  
Inactivated anti-tips  
will increase the risk  
of injury. Activate  
the anti-tips to avoid  
the risk of tipping.



## User, up forwards

This technique is recommended only for experienced wheelchair users.

– Ensure that the anti-tips are disabled.



## User, up backwards

This technique only works if there is a low kerb/threshold, relative to the installed height of the foot supports.

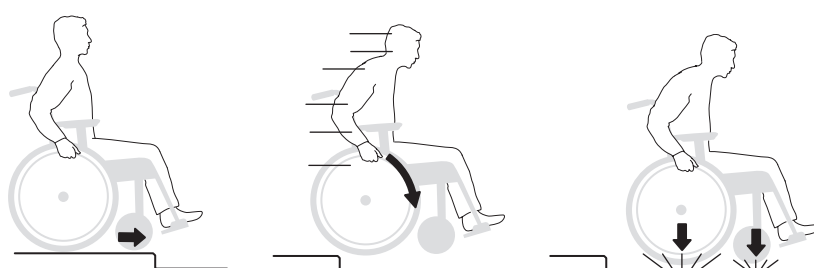
– Ensure that the anti-tips are disabled.



## User, down forwards

This technique is recommended only for experienced wheelchair users.

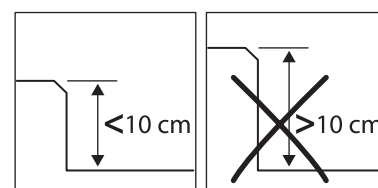
– Ensure that the anti-tips are disabled.



## User, down backwards

This technique is recommended only for experienced wheelchair users.

– Ensure that the anti-tips are disabled.



# User manual

**!** The following illustrations show principles of driving technique and obstacle clearance.

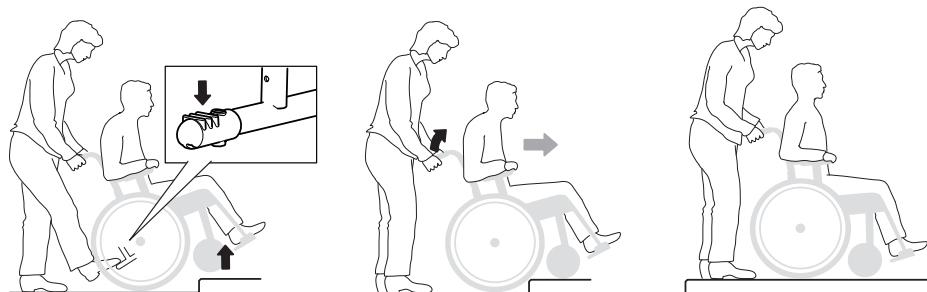


Tipping risk.  
Inactivated anti-tips  
will increase the risk  
of injury. Activate  
the anti-tips to avoid  
the risk of tipping.



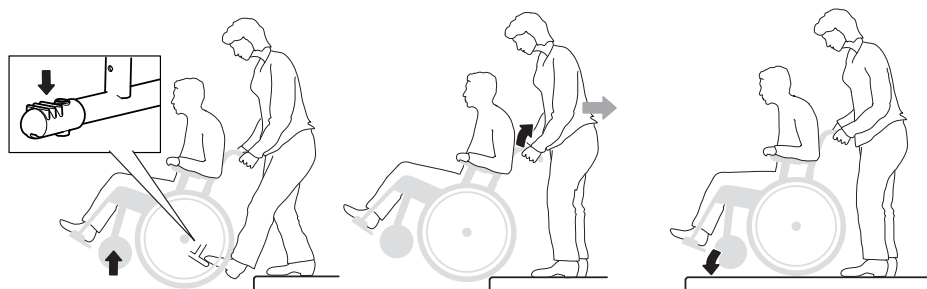
## Carer, up forwards

– Ensure that the anti-tips are disabled.



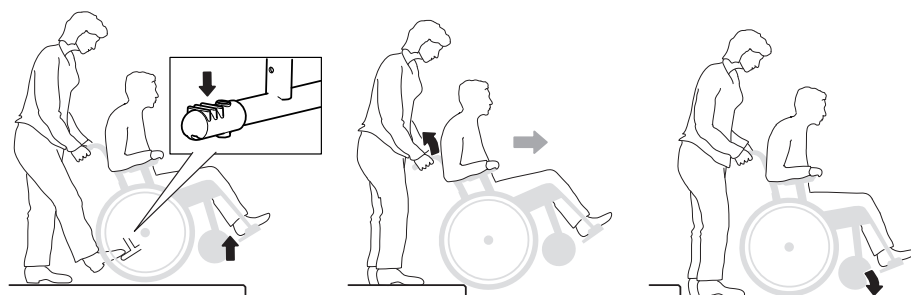
## Carer, up backwards

– Ensure that the anti-tips are disabled.



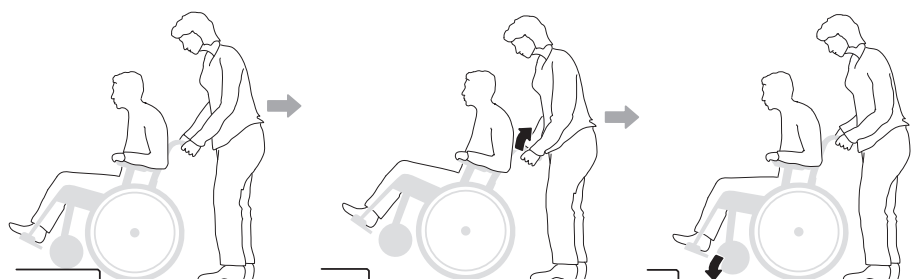
## Carer, down forwards

– Ensure that the anti-tips are disabled.



## Carer, down backwards

– Ensure that the anti-tips are disabled.



# User manual

**!** The following illustrations show principles of driving technique and obstacle clearance.



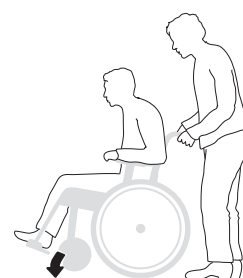
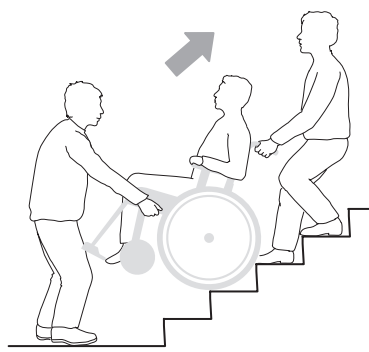
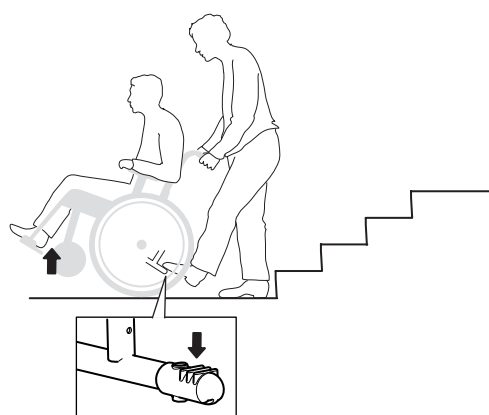
Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.



## Stairs, up

– Ensure that the anti-tips are disabled. Never use an escalator, even if a carer is available. Ensure that vertically adjustable handles are tightened.

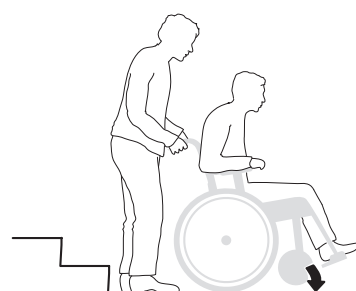
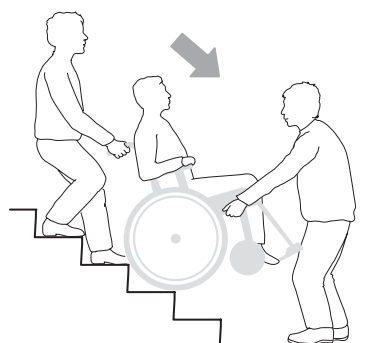
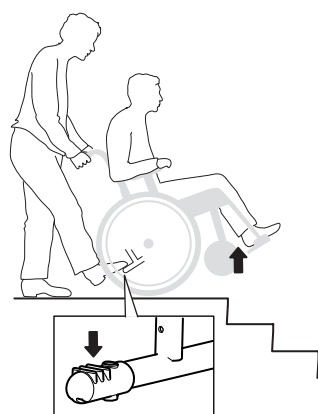
We recommend that there are always two carers for this transfer: one walking behind and holding the push handles, and one walking in front, holding the frame (or the leg supports if these are lockable).



## Stairs, down

– Ensure that the anti-tips are disabled. Never use an escalator, even if a carer is available. Ensure that vertically adjustable handles are tightened.

We recommend that there are always two carers for this transfer: one walking behind and holding the push handles, and one walking in front, holding the frame (or the leg supports if these are lockable).



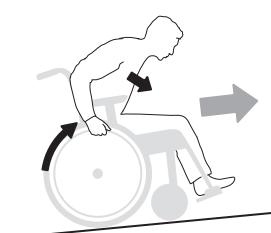
## Driving uphill/downhill

Control your speed using the handrims, not the brakes!

Avoid turning round in the middle of a hill. Always drive as straight up/down as possible. If uncertain, ask for assistance.

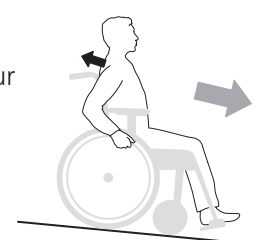
### Uphill

Lean forwards to correct your centre of balance.



### Downhill

Lean backwards to correct your centre of balance.



# User manual

## Care and maintenance

**Rear Wheels:** Clean the quick release axles when necessary.

**Castor wheels:** Clean the castor wheel axles when necessary.

**Frame:** Clean the frame with a non-abrasive cleaning agent with a pH level between 5 and 9, or with a 70% disinfectant solution. Rinse and dry.

**Upholstery:** Wash, see label on upholstery.

For more severe problems, contact the Technical Aids Centre.



When necessary lubricate moving parts/joints with bicycle oil or similar.

## Troubleshooting chart

The wheelchair pulls to the side	<ul style="list-style-type: none"> <li>• Inflate the tyres (air pressure, see section <i>“Technical data”</i>)</li> <li>• Check and adjust the height and angle settings of the front fork attachments</li> <li>• Check that the rear wheel attachments are correctly mounted</li> <li>• The user is distributing weight unevenly in the wheelchair</li> <li>• More strength being used on one side than the other</li> </ul>
The wheelchair is “heavy” to push	<ul style="list-style-type: none"> <li>• Inflate the tyres (air pressure, see section <i>“Technical data”</i>)</li> <li>• Check that the rear wheel attachments are correctly mounted</li> <li>• Clean the castor axles of hair and dirt</li> <li>• Too much weight over the castors. Adjust the wheelchair’s centre of balance</li> </ul>
The wheelchair is “heavy” to turn	<ul style="list-style-type: none"> <li>• Inflate the tyres (air pressure, see section <i>“Technical data”</i>)</li> <li>• Check that the front forks have not been tightened too much</li> <li>• Clean the castor axles of hair and dirt</li> <li>• Too much weight over the castors. Adjust the wheelchair’s centre of balance</li> </ul>
Brakes not effective	<ul style="list-style-type: none"> <li>• Inflate the tyres (air pressure, see section <i>“Technical data”</i>)</li> <li>• Adjust the distance between brake and tyre</li> </ul>
Rear wheels are “loose”	<ul style="list-style-type: none"> <li>• Adjust the length of the axle shaft</li> </ul>
Rear wheels hard to remove/re-place	<ul style="list-style-type: none"> <li>• Clean and lubricate the quick release using e.g. bicycle oil</li> <li>• Adjust the length of the axle shaft</li> </ul>
The castor wheels “wobble”	<ul style="list-style-type: none"> <li>• The front forks have not been tightened sufficiently</li> <li>• Check and adjust the height and angle settings of the front fork attachments</li> <li>• Too much weight over the castors. Adjust the wheelchair’s centre of balance</li> </ul>
The wheelchair is hard to fold/unfold	<ul style="list-style-type: none"> <li>• The upholstery is too tight</li> <li>• Clean and lubricate the cross-brace under the seat</li> </ul>
The wheelchair feels “awkward”	<ul style="list-style-type: none"> <li>• Inflate the tyres (air pressure, see section <i>“Technical data”</i>)</li> <li>• Check that screws and controls are properly tightened</li> </ul>

## 6. Settings

### Seat angle

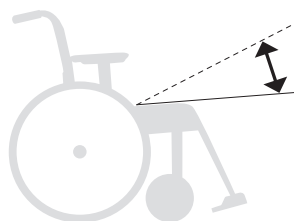
The seat angle is achieved through the difference between the front and the rear seat heights.



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.

When the seat angle is changed:

- Adjust the angle of the front fork attachment.



### Seat depth

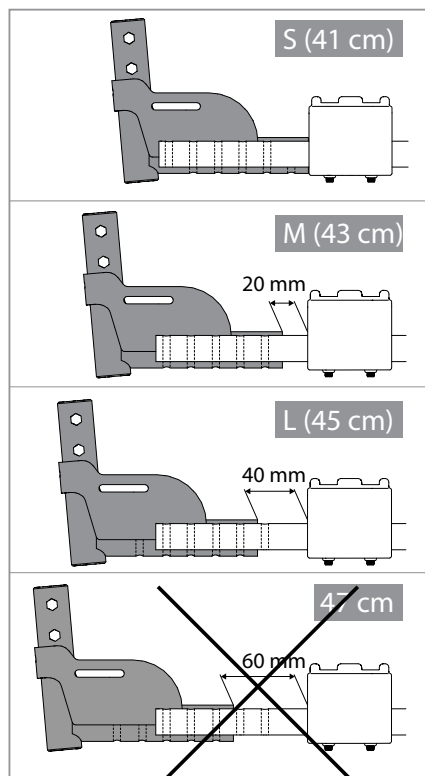
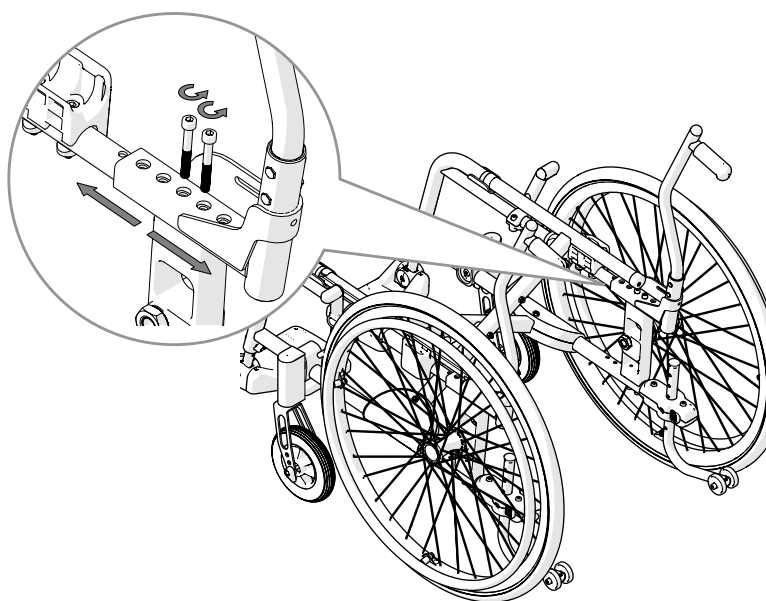
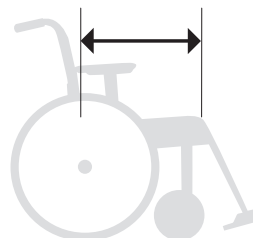
The seat depth can be adjusted by moving the attachment of the back support in the frame and lifting the front seat upholstery and sliding it backwards or forwards.

To move the back attachment, loosen the screws for back attachment/wheel bracket and move to any position.

NB. Maximum seat depth setting is 45 cm using the back attachment.



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.



Swing-Away

Active



## 6. Settings

### Seating comfort

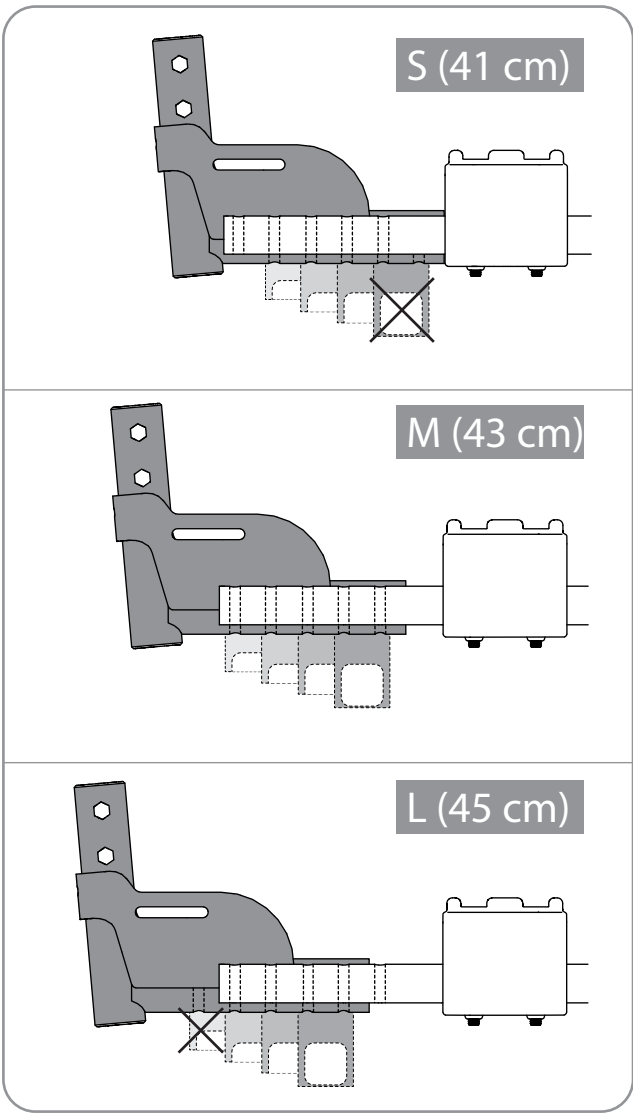
After setting seat height, seat angle, seat depth and back angle, the back support upholstery should be adjusted to give support and comfort. See section “*Seating comfort settings*” in the User Manual.



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.

### Adjustment of the centre of balance

Available positions for wheel mount at various seat depth settings.



Swing-Away	Active
●	●
●	●



## 6. Settings

### Adjustment of the centre of balance

The centre of balance can be adjusted by changing the position of the rear wheels.

- Move the rear wheel attachment forwards or backwards or rotate the camber washer.



24 mm

When the position of the rear wheels is moved forwards the wheelchair becomes much more manoeuvrable, but the tendency to tip backwards increases. See section "Seat height adjustment using the rear wheel position/rear wheel" and section "Seat depth". Also check the brakes - see section "Brake, adjustment".



The centre of balance is also altered when the seat and/or back support angle are adjusted.



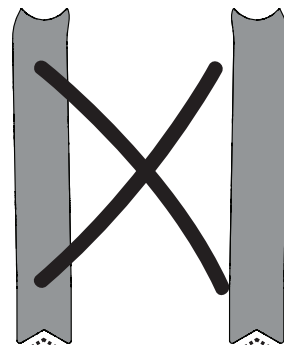
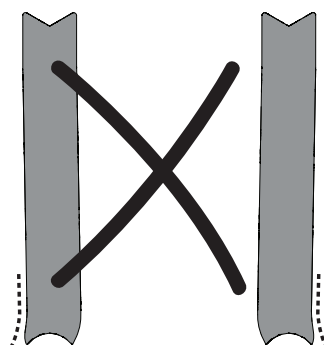
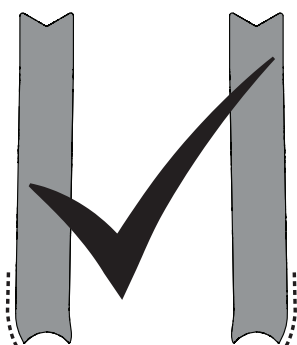
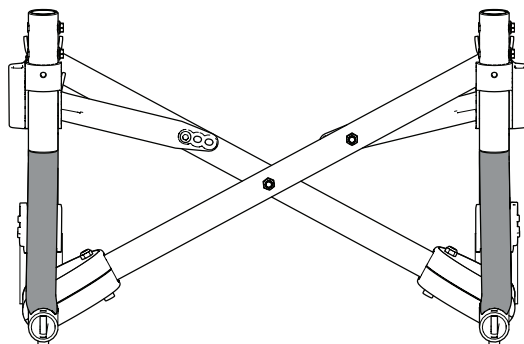
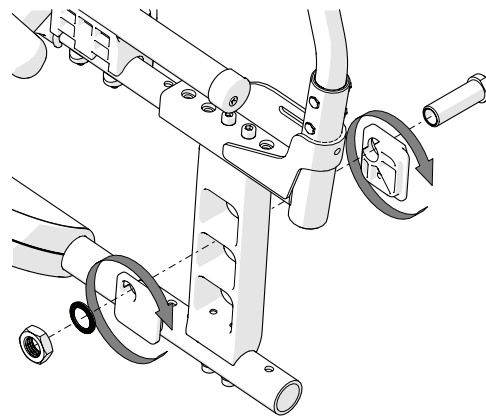
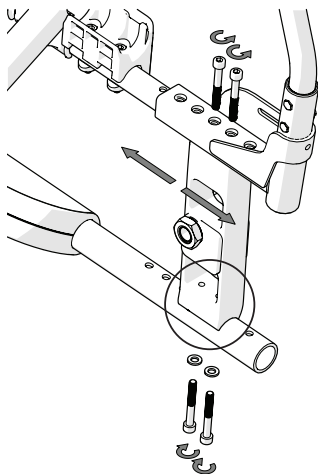
Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.



When attaching the rear wheels, make sure that the quick-release button fully returns. Test by pulling the wheel. Risk of injury.



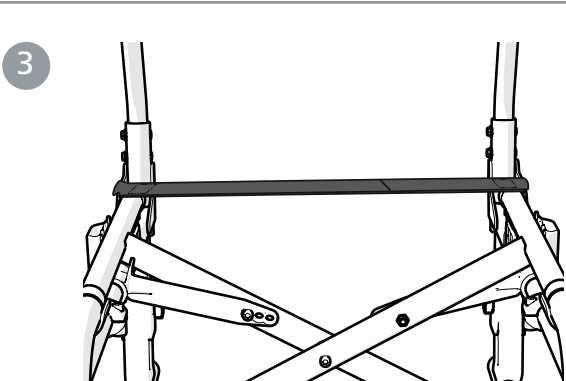
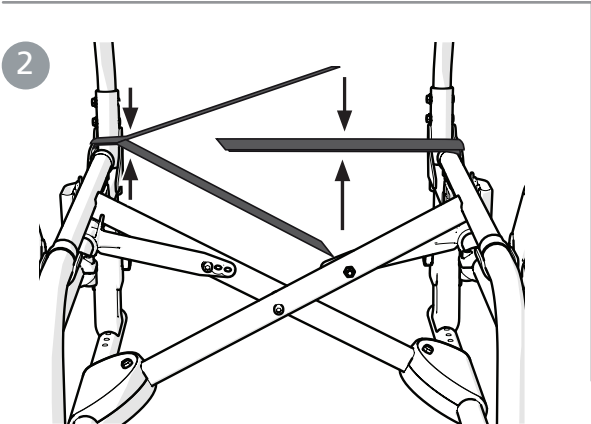
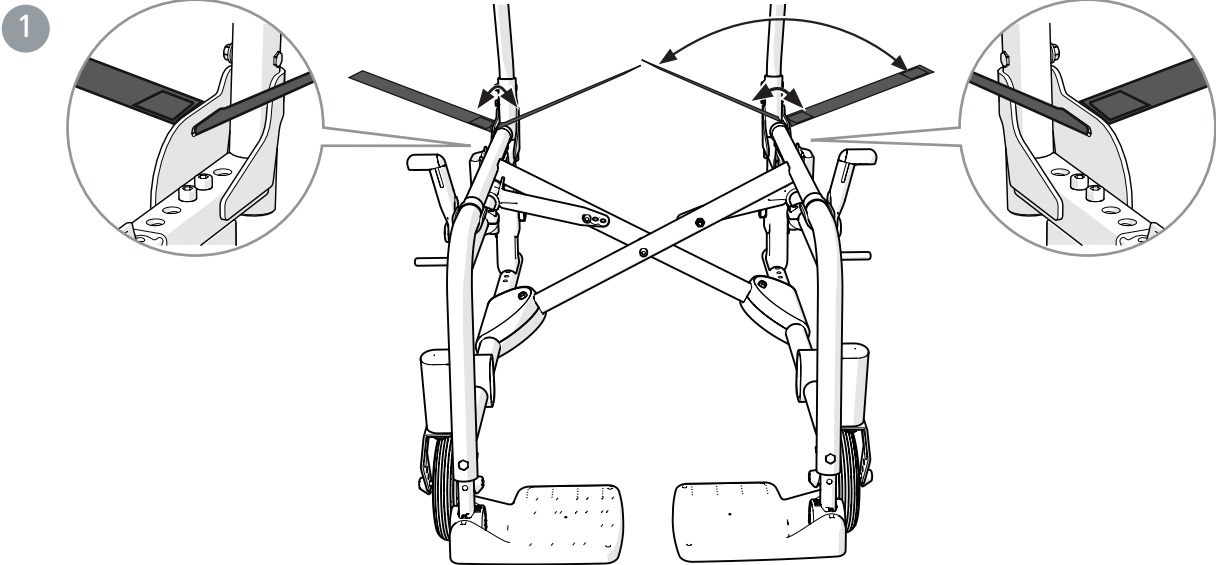
12 Nm



7. Fitting seat extender

Swing-Away  
Active

Fitting seat extender



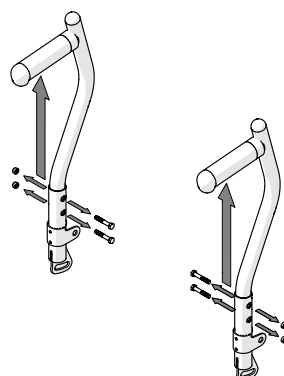
## 9. Settings Back support 2B

### Adjusting back support height

The back support height is adjustable (See "*Chair options*"). Loosen the screws to adjust the height of the back support. Tighten the screws.



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.



8 mm



3 Nm

### Adjustment of back support upholstery

The contour of the back support upholstery is individually adjustable by using the five Velcro straps and the back support cover.

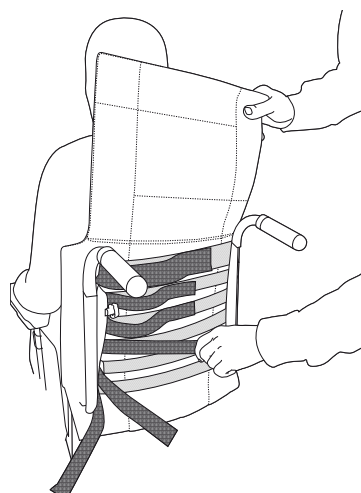
- Allow the cover plenty of room between seat and back support, so that it is possible to "sit in" against the back support.
- Loosen all the straps and ensure that the user is sitting as far back in the seat as possible.
- Tighten the straps so that they follow the contours of the back and give support to the lumbar region.



Do not over-tighten the upper Velcro straps as this can prevent the cross-brace from unfolding properly, i.e. the back tubes do not sit flush in the side-frames.



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.

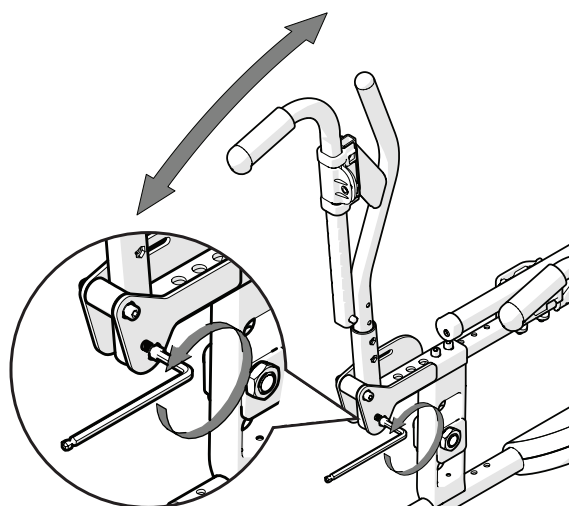


### Justering av ryggvinkel

Angle adjustable back support is optional (see "*The chairs possibilities*"). Adjust the angle by loosening the lower screw.



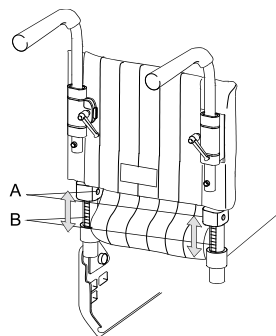
Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.



## 8. Settings Back support 2C

### Adjusting back support height

The back support height is variably adjustable (See "*Chair options*"). Loosen the screws (A) 2-3 turns to set the height of the back support. Ensure that both sides are at the same height by checking against the ruler (B) on the back of the back tube. Tighten the screws securely.



5 mm

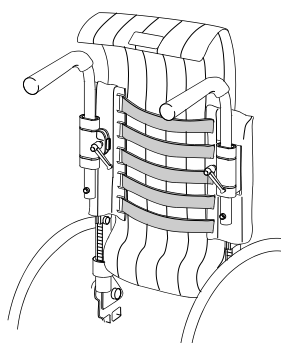


Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.

### Adjustment of back support upholstery

The contour of the back support upholstery is individually adjustable by using the five Velcro straps and the back support cover.

- Allow the cover plenty of room between seat and back support, so that it is possible to "sit in" against the back support.
- Loosen all the straps and ensure that the user is sitting as far back in the seat as possible.
- Tighten the straps so that they follow the contours of the back and give support to the lumbar region.



Do not over-tighten the upper Velcro straps as this can prevent the cross-brace from unfolding properly, i.e. the back tubes do not sit flush in the side-frames.



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.

Swing-Away	Active
<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>

## 10. Readjustments

### Brake, adjustment

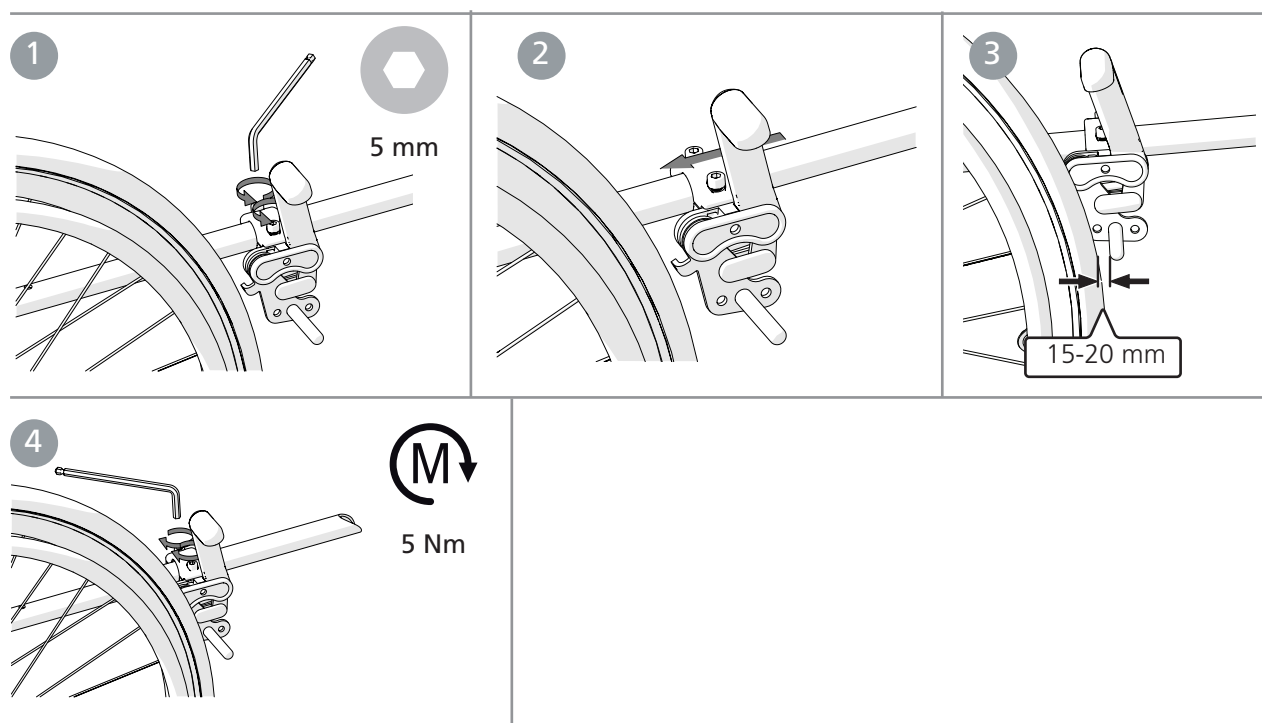
Swing-Away	Active
●	●

The brakes are variably adjustable.

1. Loosen the screws about one turn.
2. Adjust the brake position.
3. The brake block must be approximately 15-20 mm from the tyre when the brake is not being applied.
4. Re-tighten the screws. Test the brakes!

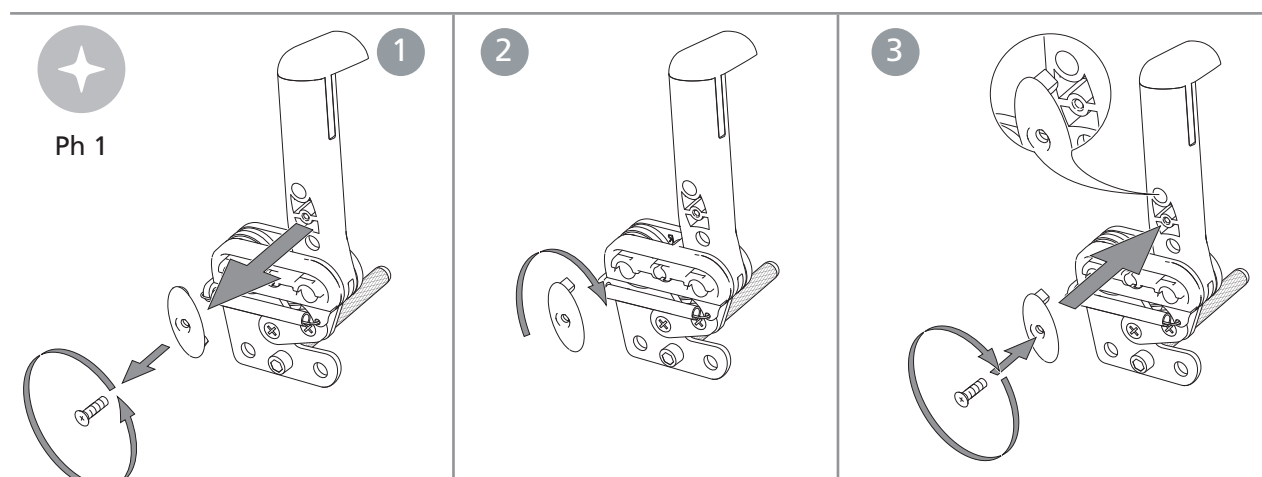


The braking effect is dependent on the air pressure in the tyres. The brakes are parking brakes and must not be used as motion brakes.



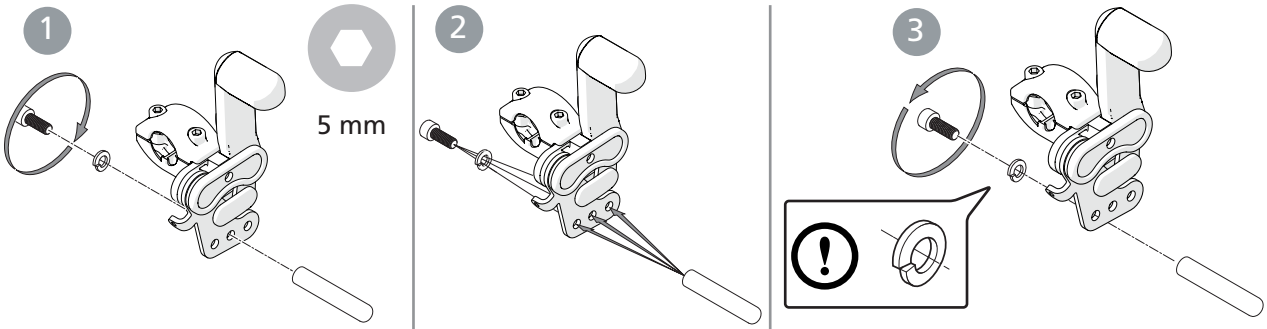
If the rear wheel is positioned in one of the forward settings it is possible for a leg support, when swung to the side, to unlock an applied brake. To avoid this, the brake handle should be adjusted so that you attain a "neutral" position. In this way the brake will only unlock when the handle is pushed close to the rear wheel.

1. Loosen the screw on the inside of the brake handle.
2. Remove the oval plate and turn it 180°. (The pin on the inside of the plate must sit in the upper hole.)
3. Screw it into place again.

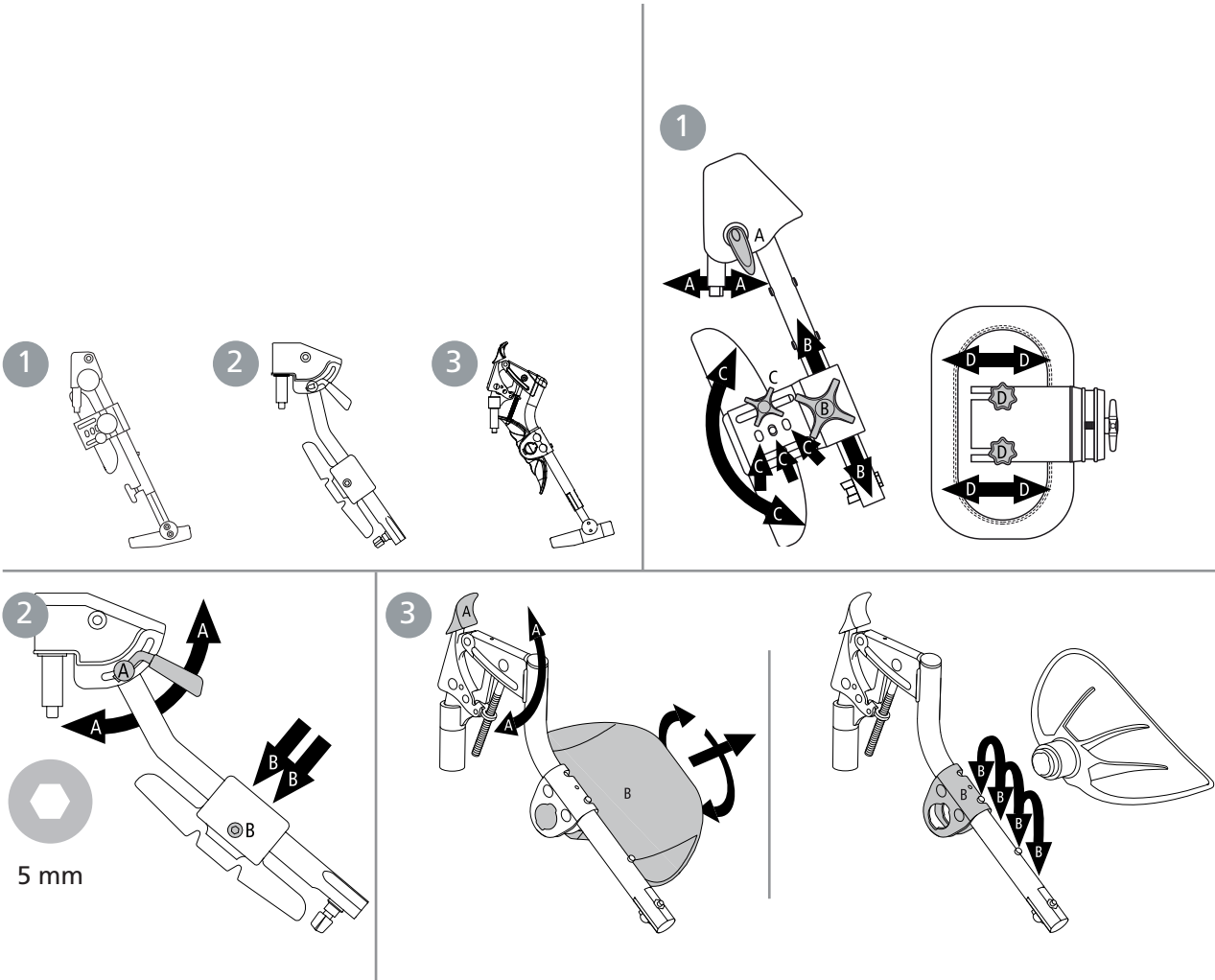


# 10. Readjustments

Adjustment of brake pin in certain rear wheel positions



Leg supports, variable angle adjustment

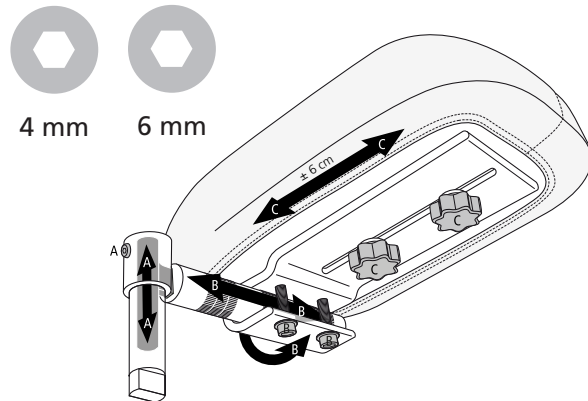


Swing-Away	Active
●	●
●	

## 10. Readjustments

### Amputee leg support

Never sit on the amputee leg support.



### Anti-tip

The anti-tips are height-adjustable.



Tipping risk. Inactivated anti-tips will increase the risk of injury. Activate the anti-tips to avoid the risk of tipping.

The anti-tips are mounted on the tilters.

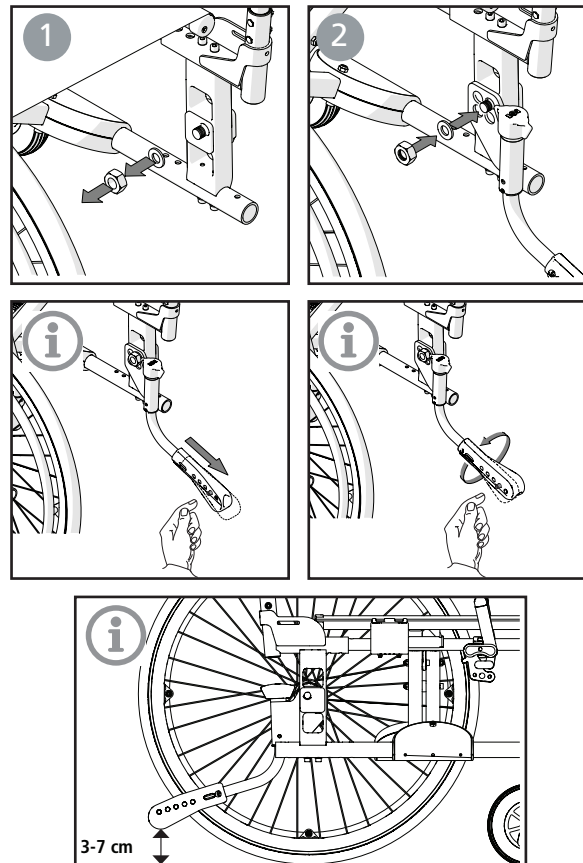
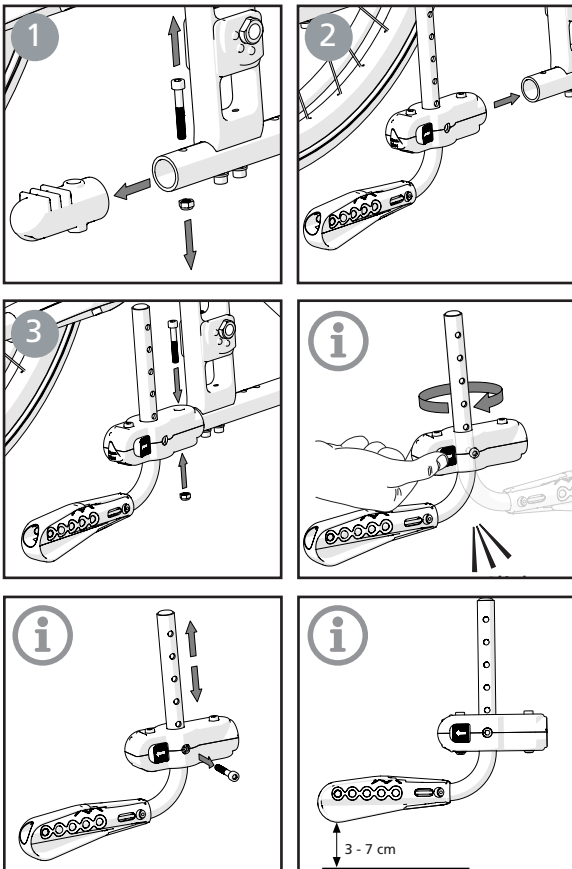
Anti-tip active is mounted on the inside of the rear wheel bracket.



5 mm



5 Nm



# 10. Readjustments

Swing-Away  
Active

## Changing camber angle

You can change the camber angle by changing the washers between the hub sleeve and the nut. (See also section "Seat height adjustment using the rear wheel position/rear wheel").



When attaching the rear wheels, make sure that the quick-release button fully returns. Test by pulling the wheel. Risk of injury.

1

2

i

0° camber

2° camber

3

4

## Toe-in, toe-out

Due to the design there is no need for a toe-in correction. Even when the rear wheel position is adjusted in height or centre of balance the rear wheel attachment makes sure that the adjustment of the toe-in is always correct.



## 10. Readjustments

### Handrims

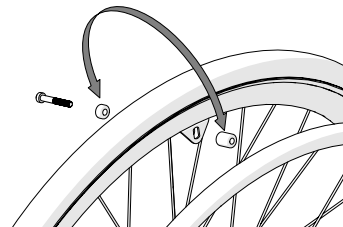
The way in which the user is able to grip the handrims is influenced by the handrim's material and its distance from the wheel. Foam rubber and plastic-coated handrims are available as options. Foam rubber/plastic-coated hand rims give more friction.



Fingers can be injured if they get between the spokes. Spoke protection is available as a means to prevent injury.

### Adjusting the distance of the handrim

Aluminium, stainless steel, plastic-coated and foam rubber handrims for 24" and 22" rear wheels: The distance between the wheel and the handrim can be adjusted by moving or exchanging the two spacers.



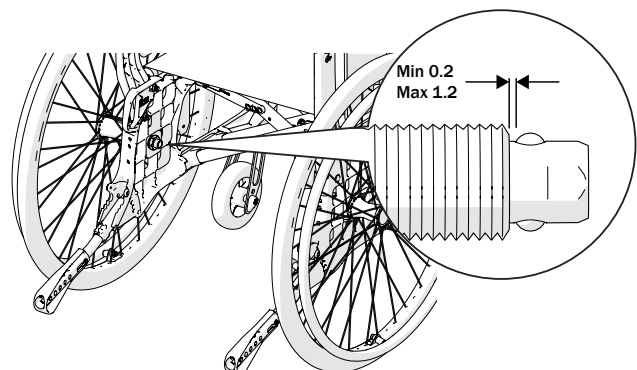
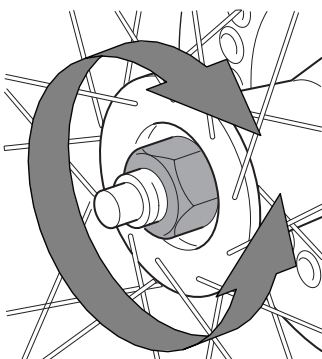
4 mm

### Drive wheels with quick-release axle

The distance between the hub sleeve and the locking balls can be adjusted by adjusting the nut on the outside of the hub. The distance between the hub sleeve and the locking balls should be 0.2 to 1.2 mm.



When attaching the rear wheels, make sure that the quick-release button fully returns. Test by pulling the wheel. Risk of injury.

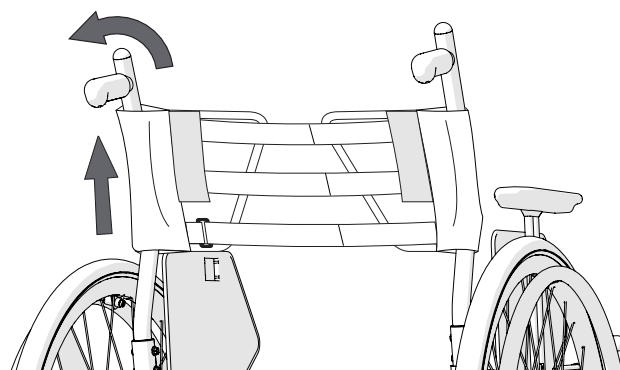
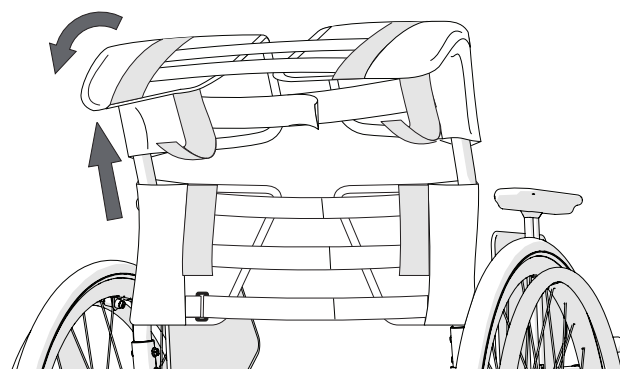
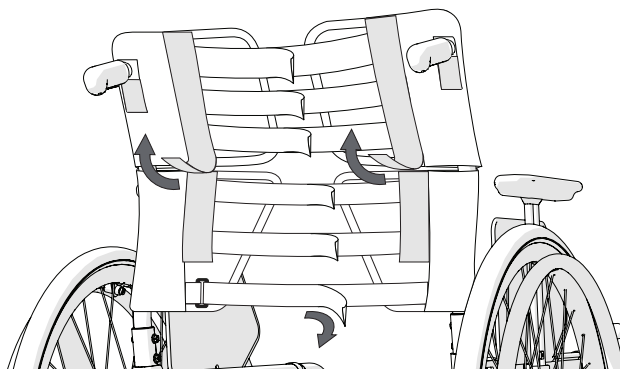
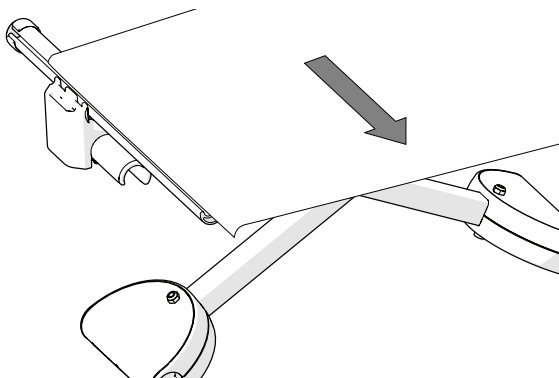
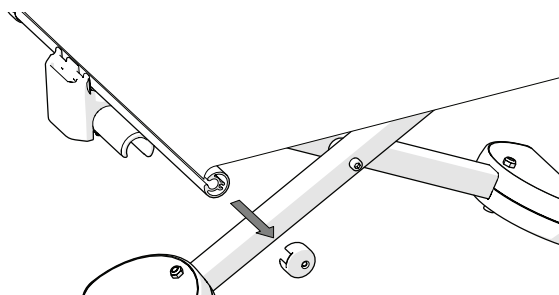
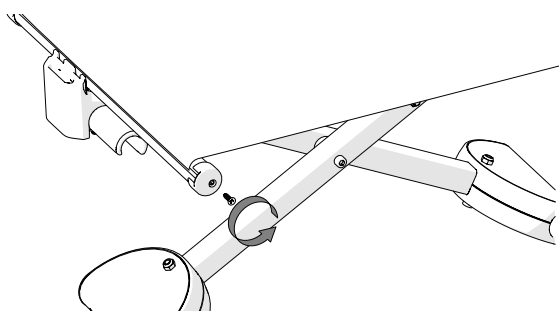


## 10. Readjustments

### Mounting/dismantling upholstery

The seat upholstery is fastened lengthways to the seat frame, and can easily be removed from the frame by unscrewing the end caps.

The back support upholstery is removed by loosening the Velcro straps.



Swing-Away

Active

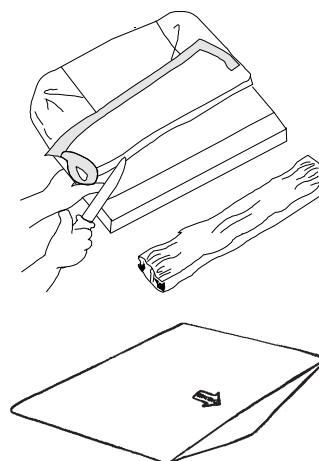


## 11. Accessories - adjustment, handling

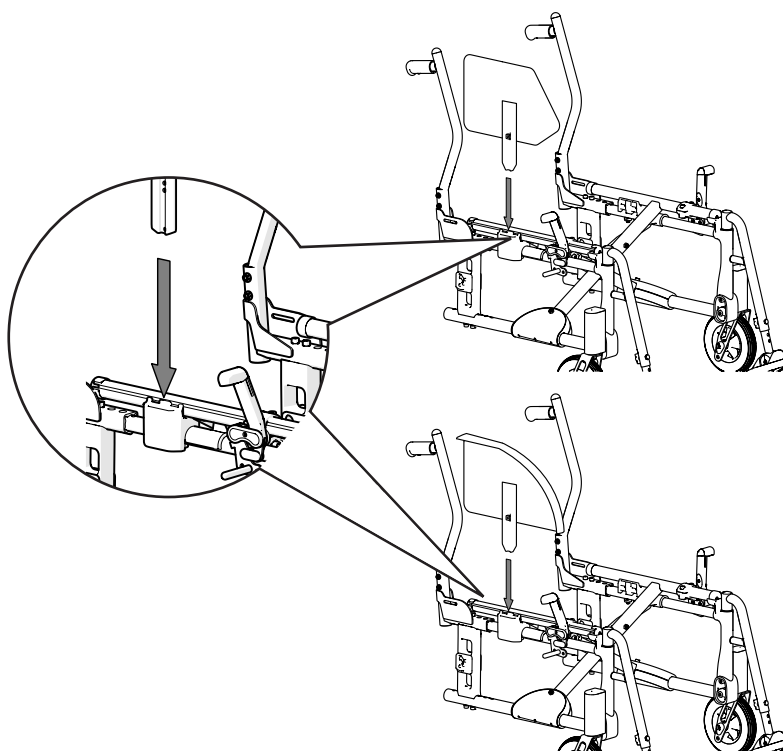
Assembly instructions are always provided with accessories when they are delivered from Etac. Instructions are also available on our website [www.etac.com](http://www.etac.com)

### Seat cushion and comfort wedge

The cushion is cut to the required depth at the front or back edge. When measuring the length, ensure that the cushion is properly positioned between the back tubes with the rounded corners to the rear. A comfort wedge is a useful accessory for the seat cushion. It evens out the front edge of the seat, giving even greater seat comfort. Place the comfort wedge in the cushion-cover's inside pocket, under the cushion. The arrow on the comfort wedge should be on the top-side pointing forwards. The cushion is a standard model and is not suitable for users with sitting sores.



### Sideguard/Splash guard




Swing-Away	Active
●	●
●	●

11. Accessories - adjustment, handling

Swing-Away	Active
●	●

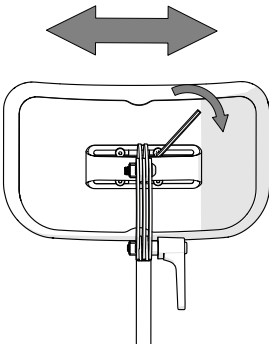
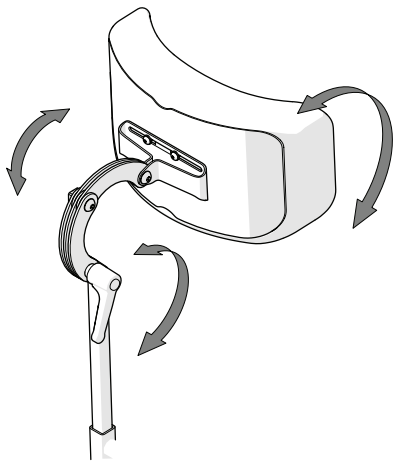
Head support

The head support is mounted onto the push brace (option, Back support 2C). The head support is adjustable in height, depth and angle, and is detachable.

 The center of balance might be altered when the user leans against the head support.

 Do not lift the wheelchair by the head support mount. Risk of injury.

 Before the head support is adjusted, ensure that the user has a good, secure sitting posture.








## 12. Technical data

	Type of chair	Art. no. Crissy	Total width cm	Seat depth from back support, cm	Seat width	Back support angle	Weight	Max user weight
Crissy Swing-Away	37.5 cm	13230103	57.5	37-45	37.5 cm	5°	13.5 (29.8 lbs)	125 kg
	40 cm	13230105	60.0	37-45	40 cm	5°	13.6 (29.9 lbs)	125 kg
	42.5 cm	13230107	62.5	37-45	42.5 cm	5°	13.7 (30.2 lbs)	125 kg
	45 cm	13230109	65.0	37-45	45 cm	5°	13.8 (30.4 lbs)	125 kg
	47.5 cm	13230111	67.5	37-45	47.5 cm	5°	13.9 (30.6 lbs)	125 kg
	50 cm	13230113	70.0	37-45	50 cm	5°	14.0 (30.8 lbs)	125 kg
Crissy Active	37.5 cm	13230203	57.5	37-45	37.5 cm	5°	13.0 (28.6 lbs)	125 kg
	40 cm	13230205	60.0	37-45	40 cm	5°	13.1 (28.9 lbs)	125 kg
	42.5 cm	13230207	62.5	37-45	42.5 cm	5°	13.2 (29.1 lbs)	125 kg
	45 cm	13230209	65.0	37-45	45 cm	5°	13.3 (29.3 lbs)	125 kg
	47.5 cm	13230211	67.5	37-45	47.5 cm	5°	13.4 (29.5 lbs)	125 kg
	50 cm	13230213	70.0	37-45	50 cm	5°	13.5 (29.8 lbs)	125 kg

	Seat height rear cm	Seat height front cm	Back sup- port height cm	Transport width cm	Total height cm	Total length cm	Leg sup- port length cm	Folded length cm	Leg support angle	Handrim size cm
Crissy Swing-away	38.5-51	40.5-55	35-47.5	32	73-98.5	94-102	30-64	71-79	108°-114°	56-60
Crissy Active	38.5-51	40.5-55	35-47.5	32	73-98.5	90-98	37-57	90-98	110°	56-60

Crissy Swing-Away	The weights given are for a chair with 24" rear wheels with quick-release hubs, back support 2B, high-pressure tyres, aluminium handrims, leg supports, foot plates, brakes, mudguards, 6" castor wheels and medium fork. The measurements given may vary by $\pm 2\%$ .
Crissy Active	The weights given are for a chair with 24" rear wheels with quick-release hubs, back support 2B, high-pressure tyres, aluminium handrims, foot plates, brakes, mudguards, 5" castor wheels and medium fork. The measurements given may vary by $\pm 2\%$ .

			Tyres							
Max. incline sideways	Max. incline down	Max incline brake		High pressure 22"	High pressure 24"	Solid 22"	Solid 24"	Solid inner tube 22"	Solid inner tube 24"	High pressure 24" (Carbon)
			PSI/Bar	110/7.5	110/7.5	-	-	-	-	110/7.6
				550 mm	590 mm	550 mm	600 mm	550 mm	590 mm	592
				25 mm	25 mm	32 mm	32 mm	25 mm	25 mm	23 mm
>20°	>20°	7°								

Fe/ALU/PA	ALU/PA	PES	Fe/CF/ALU	PP/TPR	ALU/PA/PE/PU

## 13. Service and maintenance

### Cleaning

It is important to keep the wheelchair clean, both for your own comfort and the longevity of the chair. It is equipped with a drainage hole which ensures that it is easy to wash and dry.

**Back support and seat upholstery, padded armsupport covers:** See the washing instructions on the device.

**Chassis, push handles and arm supports:** Everyday maintenance: Clean the chassis with a commercially available detergent without abrasives having a pH between 5 - 9. Rinse and dry.

### Disinfection

Disinfect the chair with 70% disinfectant spray. Air dry.

Advanced maintenance/Reconditioning: See reconditioning instruction at [www.etac.com](http://www.etac.com).

Please observe the application and safety instructions of the disinfectant manufacturer.

### Rear wheel/castor

**Tyre/inner tube:** Check the tyre pressure (see side of tyre) at least once a month, also check the tread.

**Spokes:** Loose spokes can lead to wheel wobble. Consult a cycle dealer or your Technical Aids Centre if it is necessary to adjust the spokes.

**Wheel axles:** Clean the wheel axles from hair and dirt as necessary.

**Ball bearings:** Require no maintenance.

**Handrims:** If a handrim is damaged in such a way that it can cause hand injuries, it should be replaced.

**Front fork attachment:**  
To achieve the best operating conditions, the attachments should be installed at 90°. Also check that the front forks are correctly tightened. See section "*Disassembly/assembly of the front fork*".

### Brakes

The braking effect is dependent on the air pressure in the tyres. Heavy dirt can have a negative effect on the

brake mechanism. If adjustment is necessary, see section "*Brake, adjustment*".

### Touch-up paint

Touch-up paint is available for minor scratches and chips in all the frame colours available for the wheelchairs.

### Miscellaneous

If there is a fault in your wheelchair you should contact your dealer or Technical Aids Centre.

When necessary lubricate moving parts/joints with bicycle oil or similar.

If your chair needs reconditioning or repair, only original parts from Etac or components with equal quality should be used.

Etac will not be held responsible for damage or injury caused by use of non-original parts.

## 14. Storage and guarantees

The following methods of surface treatment have been used:

Lacquered surfaces = Polyester powder coating or ED lacquering

Non-lacquered aluminium parts = Anodised coating

Non-lacquered steel surfaces = Galvanised

Non-lacquered/galvanised steel surfaces = Stainless steel

The device is protected from corrosion.

**Guarantee:**

5-year guarantee against material and manufacturing defects.

For terms and conditions, see [www.etac.com](http://www.etac.com).

**Storage:**

The device should be stored indoors in a dry place at a temperature above 5°C. If the device has been stored for a long time (more than four months), its function must be checked by an expert before use.



To be sorted according to national regulations

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