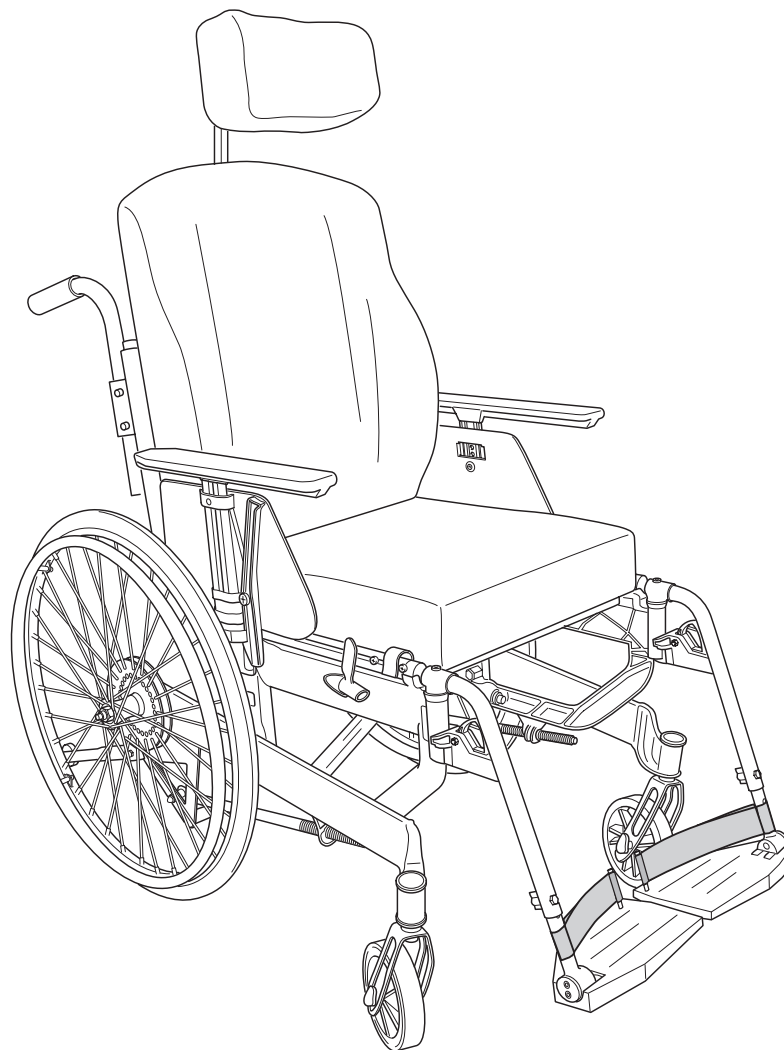


Next Comfort

Manual English

etac®

747301 2015-11-06



CE

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1 General

The manual must be read thoroughly to avoid damage when handling and using the Next Comfort chair.



(!)

is a warning triangle to indicate that special care should be taken.

provides advice and tips worth considering.

Anti-tips

come as standard. These prevent the wheelchair from tipping backwards.

We recommend all users to use the anti-tip devices,

unless you are an experienced user with absolute control over your wheelchair.

Next Comfort is a manual, cross-folded, tiltable wheelchair with multiple functions that is intended for use both outdoors and indoors. The seat is adjustable in height and depth and is infinitely adjustable in angle. The backrest is adjustable in height, angle and contour. The footrests are adjustable in height, angle and depth.

Next Comfort can be supplemented and adjusted if needs change. A large range of options and accessories are available: Various types of seats and backrests, headrests, brakes and legrests, fixing points for transport in mobility service buses etc.

Next Comfort has the best prerequisites to create comfort, functionality and good manoeuvrability.

Crash test

Etac's wheelchairs are tested and approved in accordance with ISO 7176-19. This ISO standard specifies requirements for the design of the wheelchair's restraining points, how the wheelchair and the user are secured in the vehicle, and also describe how tests should be carried out and how the test results should be interpreted.

Etac's wheelchairs are crash tested at the Technical Research Institute of Sweden.

The test was performed with normal settings on the wheelchair and with the transport attachment accessory (see manual).

An UNWIN_WWR/ATF/K/R restraining device and an UNWIN_WWR/HD/ATF/K/R 3-point belt were used in the test.

Etac's positioning belt, heel straps and headrest should be used when travelling in vehicles.

Seat widths: From 35 cm to 50 cm.

Seat depth: Short frame 42 cm. Long frame 48 cm.

Max. user weight: 135 kg.

Service life: The product is tested and fulfils the demands stated in EN 12183. The main product's durability and lifetime is at least five years when used in accordance with intended use, the safety instructions, the reconditioning manual and instructions for use in the user manual. The main product consists of the chassis for seat and back support. Additional parts/accessories are handled in accordance with the manual and reconditioning manual. The actual lifetime can vary, depending on how much and how intensively the product is being used, but a maximum of 10 years. If the product is intended for use after the service life period specified by Etac, it is the responsibility of the product owner to ensure product functionality in accordance with the manual and reconditioning instructions. If this cannot be ensured then the product should be taken out of use.

The following methods of surface treatment have been used:

Lacquered surfaces=Polyester powder coating, Non-lacquered aluminium parts=Anodized coating,

Non-lacquered steel surfaces=Galvanized

Settable= Adjusted using tools

Adjustable= Adjusted without tools

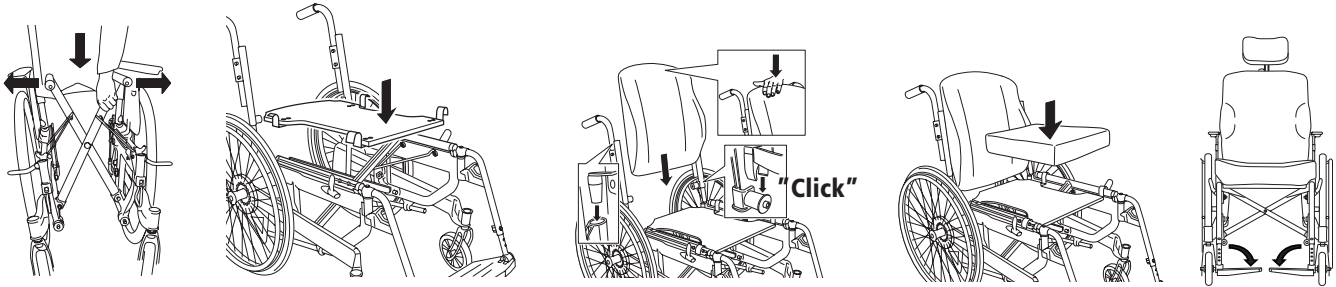
The tool kit contains: 1 Allen key 5 mm
1 Ring spanner 24 mm

2 Handling/Transport

2:1 Unfolding

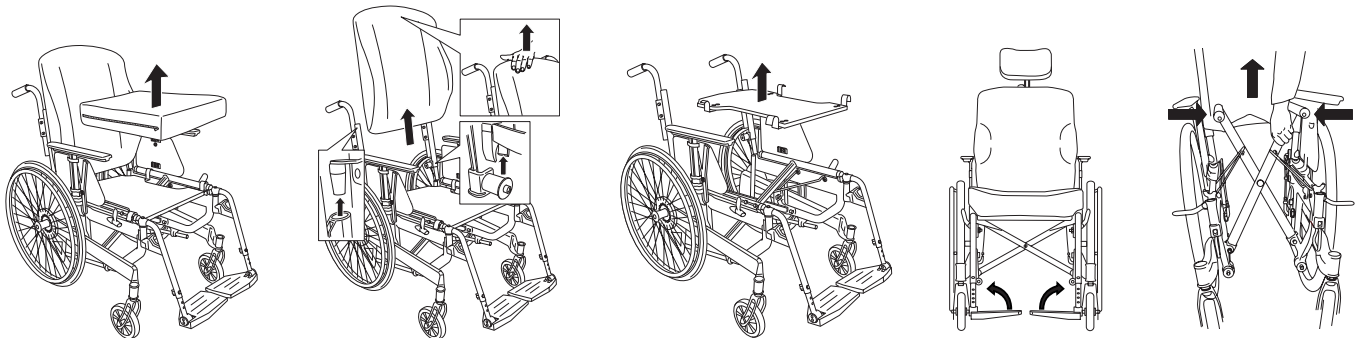
Press down on one side of the seat frame (do not hold the seat frame due to the risk of pinching your fingers).

Fit seat, back pad and seat cushion.
Flip down the footrests.




2:2 Folding

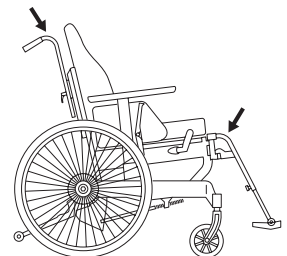
Remove seat cushion/back pad and any bow handle/cross brace.
Lift the seat upwards.
Flip up the footrests.
Pull the seat frame upwards.



2:3 Lifting the wheelchair

Lift using the push handles and legrests.

 Before lifting, ensure that the height adjustable push handles are securely fastened.

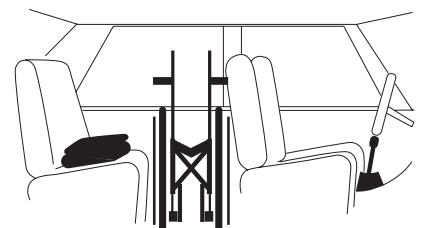


2:4 Transportation in vehicles

Private car/taxi: The wheelchair should be placed in the car boot. Folding, see point 2:2.

seat, so that it cannot overturn or roll. If possible secure the wheelchair with the car's safety belt.

If this is not possible, ensure that the wheelchair is placed safely in the back



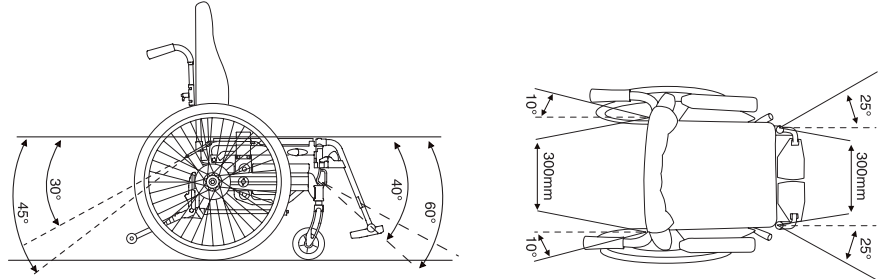
2 Handling/Transport

2:5 Securing

Mobility service bus or similar:

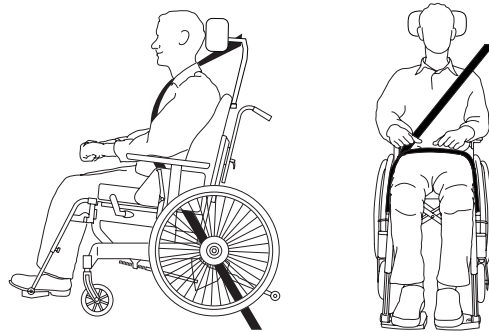
The wheelchair must be secured in the transport attachment as shown in the diagram. The straps must not be passed through the wheels or around the back tubes.

The back should be vertical and the seat should be horizontal for transport by vehicle.



2:6 Seat belt

It is essential for the 3-point belt to be fitted as shown in the illustrations. There should not be any part of the wheelchair between body and seat belt.



2:7 Recommendations

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.
- 2) The wheelchair is secured facing forwards in the vehicle as per point 2:5, the user uses a separate 3-point belt that is secured in the vehicle. This is the way in which the wheelchair is tested and approved according to the ISO-standard for crash testing of wheelchairs in vehicles.

3) According to directive 2001/85/EC, appendix VII, point 3.8.3. there are specially marked wheelchair locations in vehicles that permit transport with a wheelchair facing in the opposite direction of travel. If this means of travel is used, the user/care giver 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.

In conjunction with points 2 and 3:

- a positioning belt must be used
- a correctly adjusted headrest must be used
- the backrest must be level with or above the user's shoulders
- the parking brake must be used
- the anti-tips must be lowered
- a heel strap must be used
- a cross brace must be used (not with ECS back support)

2:8 Warning

- During transport the headrest and heel strap must be used.

- The wheelchair's positioning belt is not sufficient to prevent the user from being thrown out of the wheelchair in the event of sudden braking.

- The restraining device must not be passed through the wheels or around the back tubes.

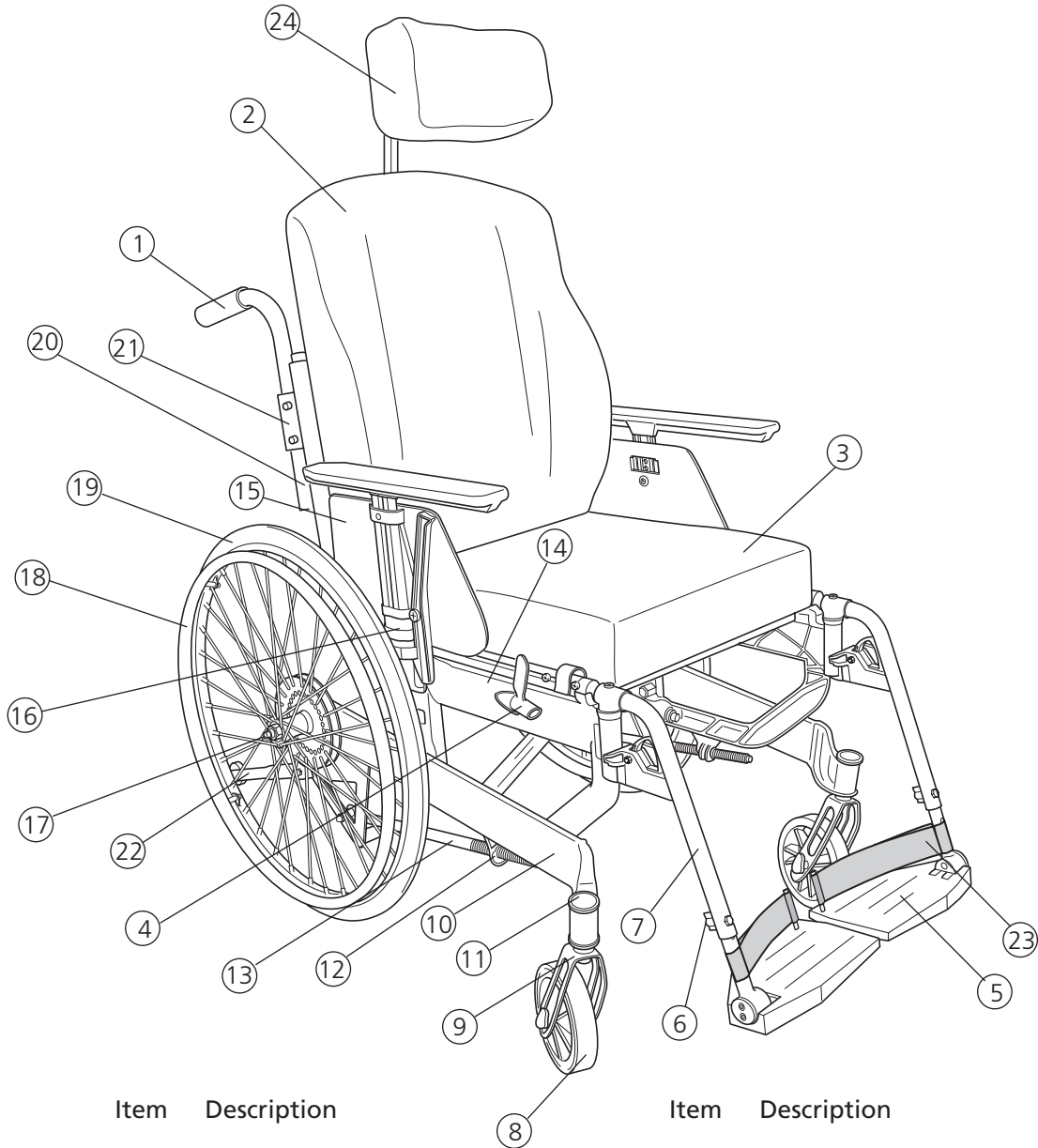
- Accessories/options that can be removed without tools, such as trays, must be removed and secured or placed where they cannot fly around inside the vehicle in the event of a collision.

If the wheelchair has been involved in a collision in a motor vehicle, it should be inspected at a Technical Aids Centre or by Etac before being used again.

3 Product description

Next Comfort is constructed around a seat unit and a propulsion unit. Height adjustment is possible without changing the rear wheels, front forks or castor wheels. The seat height is not affected by the castor size, and the

front fork attachments need never be angle-adjusted. Nor do the brakes need to be adjusted when the rear wheel position is changed.



Item	Description
1	Push handles
2	Back pad
3	Seat upholstery including cushion
4	Brake
5	Footrest
6	Footrest locking knob
7	Legrest
8	Castor wheel
9	Front fork
10	Side block incl. front fork attachment
11	Protective stopper
12	Shock absorber
13	Brace
14	Side frame
15	Armrest, lockable
16	Armrest attachment
17	Quick release hub
18	Handrim
19	Rear wheel
20	Back tube
21	Locking knob, push handles
22	Anti-tips
23	Heel strap
24	Headrest

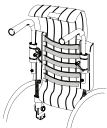
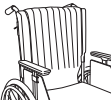
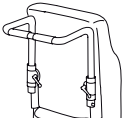
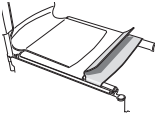
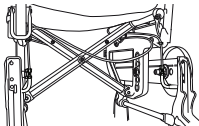
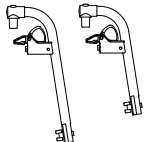
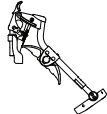
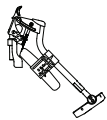




4 Model

Standard model	Alternative model (options)
<p>*Seat adjustable in angle/tilt $-3^{\circ} (\pm 1^{\circ}) - +20^{\circ} (\pm 2^{\circ})$ Seat height 44 cm, adjustable by 6 cm without changing rear wheels, fork or castor wheels Seat depth, settable Hard seat / flat seat</p> <p>Castor wheels: 6" 150 mm solid</p>	<p>Seat, settable in height</p> <p>Front seat height 40-49 cm, with seat angle $+3^{\circ}$</p> <p>Cloth upholstery with adjustable seat depth 6 cm</p> <p>Castor wheels: 5" 125 mm solid, 7" 175 mm semisolid (7" only with 24" rear wheel and not in seat height D, short frame)</p>
<p>24" rear wheel, quick release hub</p> <p>1" high pressure tyre (with inner tube)</p> <p>Handrims: Aluminium</p> <p>Camber angle 2°</p>	<p>20" or 22" rear wheels, quick release hubs</p> <p>22": 1" high-pressure tyres 20": 1 x 3/8" low-pressure tyre Solid tyres: 20", 22" and 24" Solid inner tubes 20", 22" and 24" Handrims: 22" and 24": stainless or plastic-coated Handrims: 20": stainless</p>
<p>Backrest settable in height, angle and shape Backrest height set at 59 cm continuously settable 59-69 cm</p> <p>Backrest angle set at $+2^{\circ}$ (=92° between backrest and seat)</p> <p>Height adjustable push handles, detachable</p>	<p>Backrest settable in height, angle and shape Backrest height 48 cm, settable between 48-62 cm Backrest upholstery adjustable with cover continuously settable 30-45 cm (incl. cross brace) Backrest upholstery high adjustable with cover continuously settable 38-55 cm (incl. cross brace) Backrest angle continuously settable between $-5^{\circ} - +15^{\circ}$</p> <p>Steering bar height adjustable, detachable, fixed or adjustable angle</p>
<p>Legrests - lockable, swing-away, detachable</p> <p>Legrests with standard knee angle</p> <p>Flip-up footrests, foldable, adjustable in height, settable in depth and angle Heel strap</p>	<p>Legrests - lockable, swing-away, detachable</p> <p>Legrest with narrow or short/narrow angle Legrests, continuously angle-variable Legrests, angle-variable self-extending Amputee legrest</p> <p>Footrests as standard with extended attachment tube (+10 cm height adjustment) One-piece footrest.</p>
<p>Headrest</p>	<p>Several options are available</p>
<p>Armrest, lockable, height-adjustable 38 cm</p>	<p>Armrests 25 cm long</p>
<p>Anti-tips, flip-up, settable in height</p>	<p>Anti-tips, telescopic, flip-up</p>

Dimensions and tolerance +/- 2%.

*In rear wheel position 1, seat height D, $+14^{\circ} (\pm 2^{\circ})$

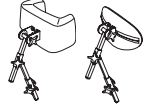
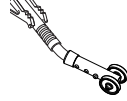
5 Options

<p>Backrest upholstery adjustable with cover, continuously height settable 30-45 cm, fitted with cross brace</p>	
<p>Backrest upholstery high adjustable with cover, continuously height settable 45-55 cm, fitted with cross brace</p>	
<p>Bow handle height adjustable, fixed or adjustable angle, detachable</p>	
<p>Seat upholstery with adjustable seat depth 6 cm</p>	
<p>Single hand brake for installation on right or left side</p>	
<p>Legrest with narrow knee angle Legrest with narrow/short knee angle</p>	
<p>Angle adjustable legrest with flip-up calf support from 40 cm seat width</p>	
<p>Angle adjustable legrest with calf support adjustable in height, depth and angle</p>	
<p>Angle-adjustable legrest self-extending</p>	
<p>Amputee legrest settable in height, adjustable in length, angle and sideways. Plush or black Dartex detachable cover. Can be combined with an amputation weight.</p>	
<p>One-piece footrest height adjustable, flip-up</p>	
<p>Handrims stainless or plastic coated</p>	



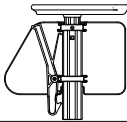
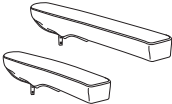
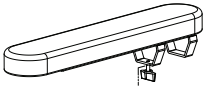
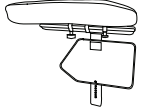

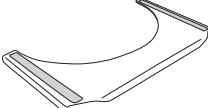
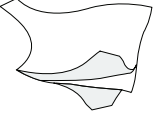

Settable= Adjusted using tools.

Adjustable= Adjusted without tools

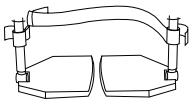
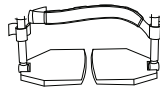
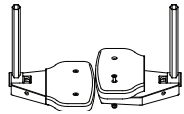
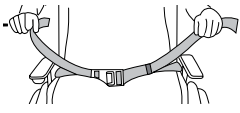
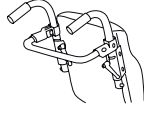
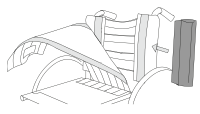
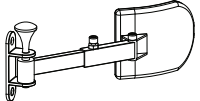
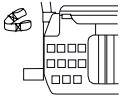
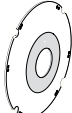
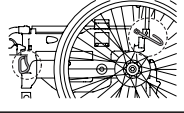
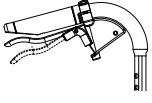
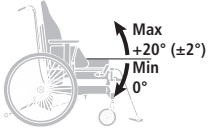
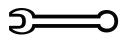
5 Options

<p>Headrest cushion with siderest or shaped cushion. Rod with 45°, 90° angle or swan neck.</p>	
<p>Anti-tips telescopic, flip-up, settable in height, adjustable in length and angle</p>	

5 Accessories

<p>Armrest lockable, height-adjustable 25 cm long, solid top, black</p>	
<p>Armrest lockable, height-adjustable 38 cm long, solid top, black</p>	
<p>Armrest low lockable, height-adjustable 25 or 38 cm long, solid top, black</p>	
<p>Armrest cover detachable, 25 or 38 cm long padded or gel, dark grey plush or black Dartex</p>	
<p>Armrest cushion wide and soft, fits onto armrest, 8x40 cm</p>	
<p>Armrest cushion Hemi swing-away for mounting on long armrests</p>	
<p>Tray transparent, fits onto long armrest</p>	
<p>Hemiplegia tray transparent, for positioning of hemiplegic arm. Can be fitted onto both short and long armrests.</p>	
<p>Anti-slip device for the Hemi Tray</p>	
<p>Seat cushion dark grey plush and black velour, 56 cm, cut according to seat depth set, washable</p>	

5 Accessories

Calf strap detachable, black nylon, settable in length	
Padding for calf strap	
Extended footrest fits onto the existing footrest	
Positioning belt two pieces, with snap-lock, fixing points on the wheelchair frame	
Cross brace with snap lock	
Back wedge length 15 and 30 cm, attached with Velcro	
Trunk support settable in depth and angle, black Dartex, foldable, incl. attachment	
Cane holder two parts, one of which is an elasticated section that is fastened around the cane.	
Spoke guard with grey or yellow print	
Transport attachment	
Drum brake	
Angle limitation +20° - 0°	
Tool kit 5 mm Allen key, 24 mm ring spanner	

Settable= Adjusted using tools.

Adjustable= Adjusted without tools

6 Quick guide

This section is intended for anyone with experience of adjusting wheelchairs who only requires brief instructions.

More detailed instructions can be found after the Quick Guide.

6:1 Seat height

The seat height is settable by 5 cm without changing rear wheels, front forks or castors.

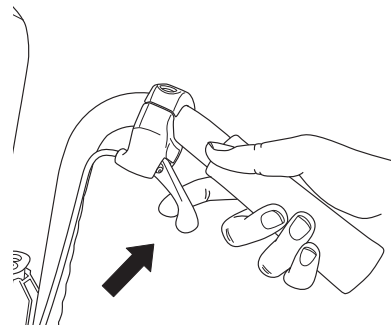
- 1) Press up the tilt handle into the tightened position.
- 2) Secure the handle with the Velcro strap that is attached to the tool bag.
- 3) Undo the nuts holding each side bar. Pull out the bar by holding it in the middle (3). Select new height position and secure the side bars.



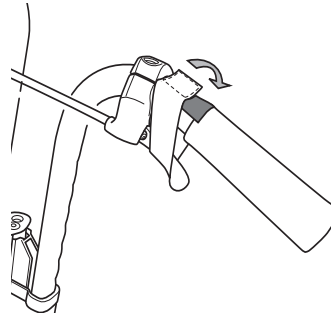
Tools: 24 mm ring spanner

For further seat height adjustments, see section 7, Settings seat.

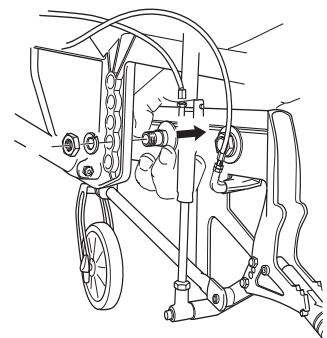
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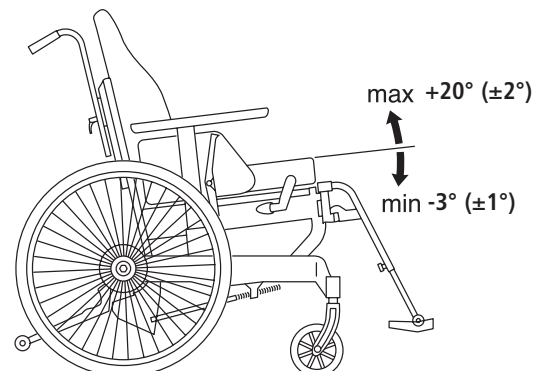
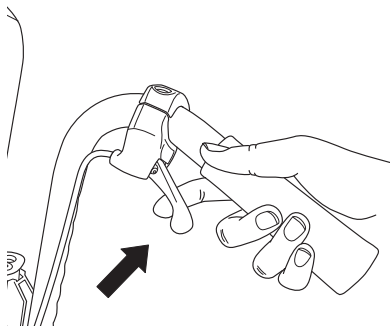
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3.



6:2 Seat angle



6 Quick guide

6:3 Backrest height

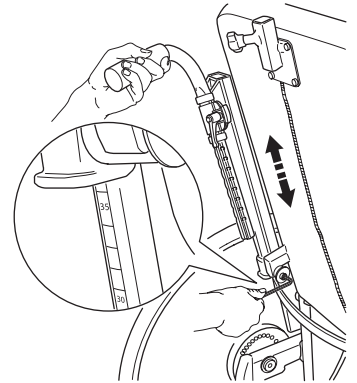
The backrest is infinitely settable.

Start by removing the back pad. Then loosen the screws on the inside of the back tubes by 2-3 turns.

Adjust the height by pulling/pushing the backrest upwards/downwards.



Tools: Allen key 5 mm



6:4 Backrest angle

The backrest angle is infinitely settable.

Loosen the screws on the inside of the backrest joints. The brake cables can be angled down for better access.

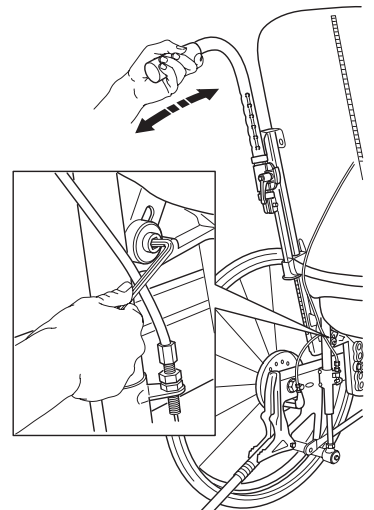
Adjust to the required angle and tighten.



Tools: Allen key 5 mm



Risk of tipping! Always check the position of the anti-tips after changing the backrest angle.

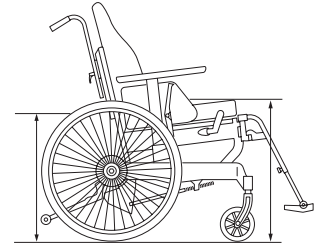


7 Settings seat

7:1 Seat height

The seat height is settable without changing rear wheels, front forks or castors.
For further height adjustment the rear wheel and front fork have to be changed.

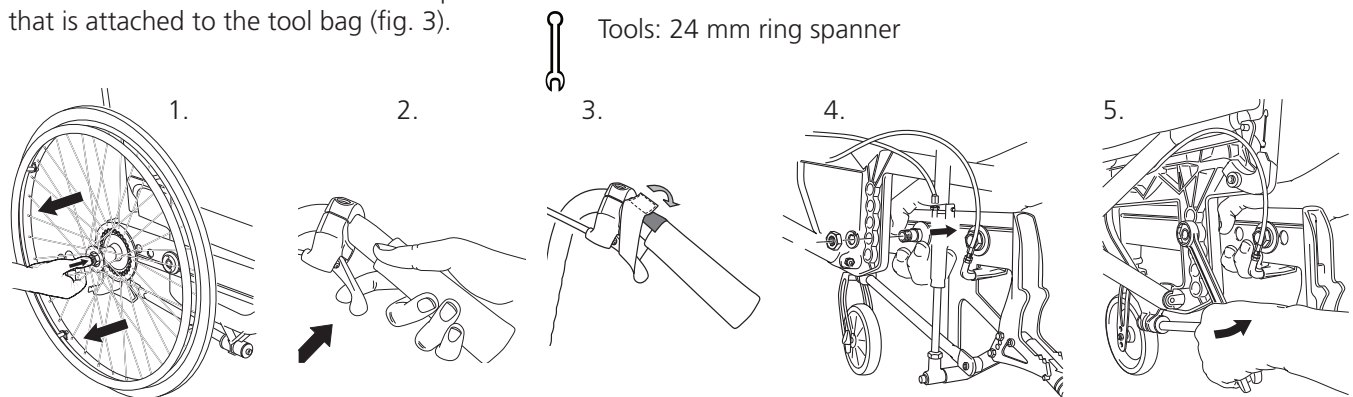
The castor wheels do not affect the seat height, and are selected solely based on application.



7:2 Adjustment of seat height using existing rear wheels and front forks

Remove the rear wheels by depressing the button in the centre of the hub while pulling the wheel out. (fig. 1). Press up the tilt handle into the tightened position (fig. 2). Secure the handle with the Velcro strap that is attached to the tool bag (fig. 3).

Undo the nuts holding the side bar. Pull out the bar by grasping it in the middle (fig. 4). Select new height position and secure the side bar. (fig. 5). Repeat steps 2-5 on the other side.



7:3 For further adjustment of seat height

For further adjustment of the seat height, rear wheels and front forks must be changed. Each rear wheel size has a specific accompanying fork size. See table in section 17, Alternative seat heights/angles.

Remove the rear wheels.


Changing front fork:

Begin by undoing the castor wheels and attaching them to the new forks (see section 12, Changing castor wheel/handrims). Remove the cover cap from the front fork assembly so that the locking nut is accessible. Undo it and pull out the front fork. Take the washer from around the fork axle and put it on the new fork (the bevelled side (A) towards the fork). Insert the new fork into the attachment. It is also

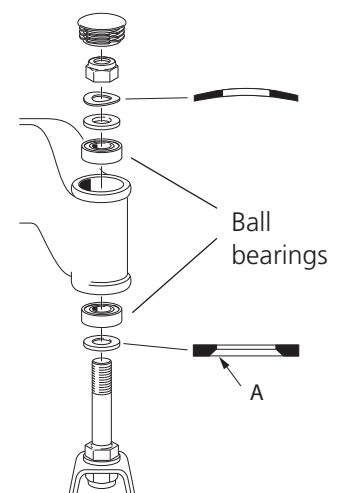
important to ensure that the washers in the attachment (under the retaining nut) are placed in the right order, with the spring washer on top. Tighten the retaining nut until it cannot be turned any more. Loosen $\frac{1}{2}$ -1 turn. The spring washer then has the correct tension and reduces the risk of the castor starting to "wobble".



Tools: 5 mm Allen key, 19 mm socket spanner.

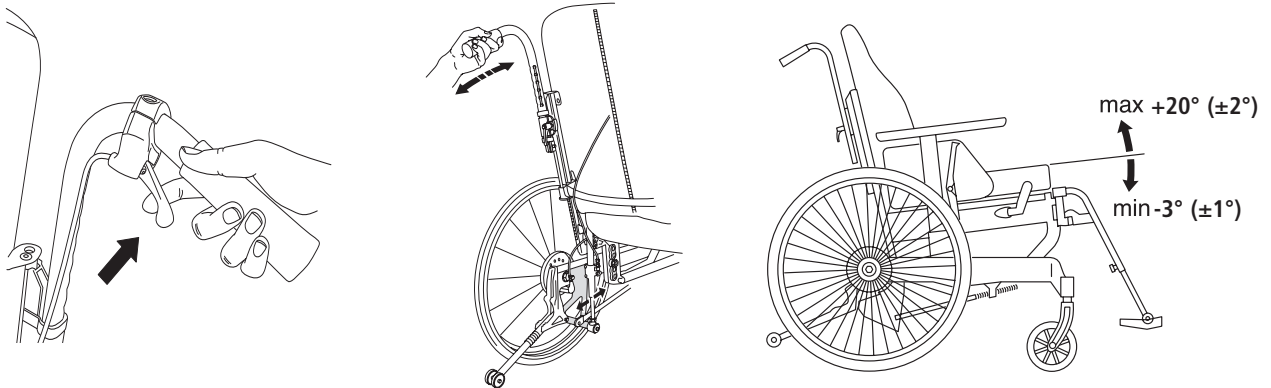


Do not change castor wheels in order to alter the seat height or the seat angle (see section 12). The bar must always be in the horizontal position.



7 Settings seat

7:4 Seat angle



7:5 Adjusting seat depth

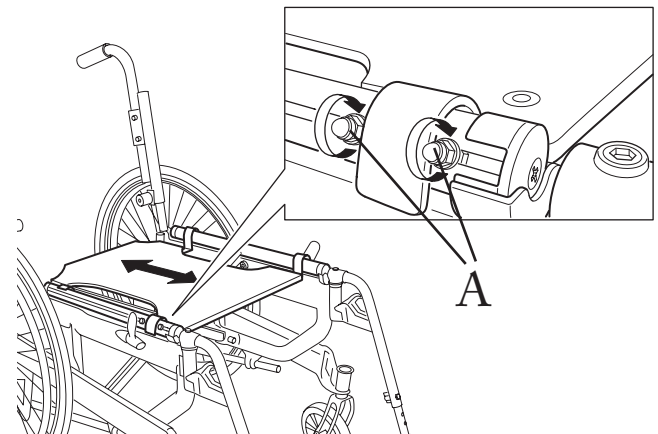
The seat depth can be varied 0-6 cm by moving the seat plate backwards/ forwards.

Loosen the screws (A) and move to the required position. Tighten.

Short frame: 35 - 41 cm
(measured from the back tube).

Long frame: 41 - 47 cm
(measured from the back tube).

The functional seat depth is affected by the position of the back pad.



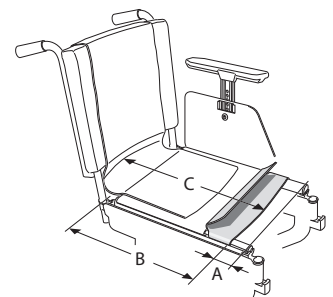
7:5 Adjusting seat depth

The seat depth can be adjusted 0-6 cm at the front by lifting the front seat upholstery and sliding it backwards or forwards (A).

Short frame: 36 - 42 cm (Measured from the back tube) (B)

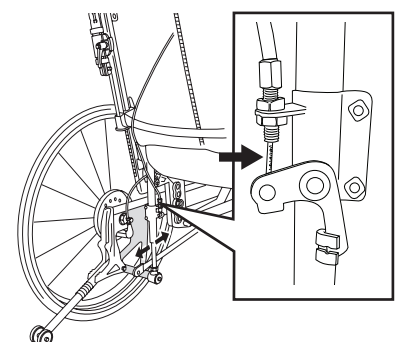
Long frame: 42 - 48 cm (Measured from the back tube) (B)

The functional seat depth (C) is affected by the position of the backrest upholstery.



7:7 Adjusting the cable casing

Each time you make an adjustment that affects the tilting function, for instance fixing the cable cover with plastic ties, check that the cable by the locking piston is not stretched tight.



8 Settings legrests

8:1 Legrests

The legrests are lockable, detachable and can be swung to the side or under the seat.

They are available in two different knee angles; standard and narrow.

A continuously angle adjustable legrest with calf support is also available.

Amputee legrests are also available as alternatives to legrests.

8:2 Legrest, continuously angle-adjustable

The legrest can be adapted for either the left or right side.

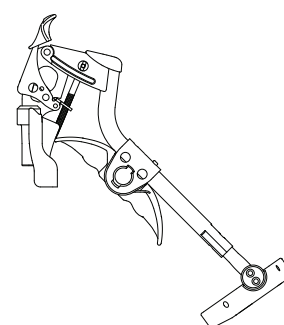
Directions for use are supplied with the legrest.

The calf support is adjustable in height and foldable.



As the angle adjustable legrest is not lockable, it must not be used to lift the wheelchair.

Remove the legrests and lift using the frame.



8:3 Legrest, angle-adjustable, self-extending

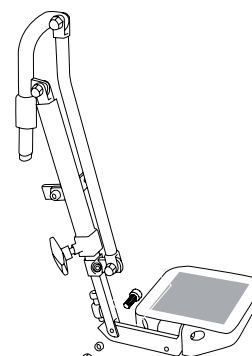
The legrest can be adapted for either the left or right side and is angle-adjustable. The footrests are in right and left versions and are settable in height and angle.



Directions for use are supplied with the legrest.

As the angle adjustable legrest is not lockable, it must not be used to lift the wheelchair.

Remove the legrests and lift using the frame.



8:4 Amputee legrest (option)

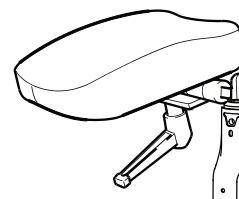
The amputee legrest fits the left and right sides of the chair.

The amputee legrest is settable in height, angle and can also be adjusted forward and sideways.

Angle and sideways: loosen the lever under the plate.

Forwards/backwards: loosen the knob under the plate.

Height: use the Allen key provided.



Tools: 4 mm Allen key (supplied with the support)

8 Settings legrests

8:5 Footrests

Next Comfort is supplied with divided, flip-up footrests that are adjustable in height, angle and depth.

To make the footrests lower or higher than standard, they are available with respectively 10 cm longer and 8 cm shorter attachment tubes.



For outdoor use the footrests should be raised 4-5 cm above the ground.

Never stand on the footrests as you may tip the chair.

8:6 Footrests, height adjustment

The footrests are adjustable in height.

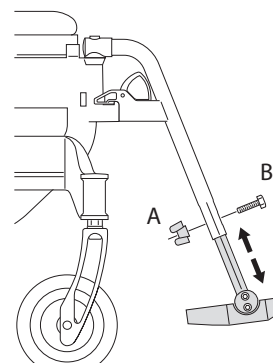
Loosen the locking handle (A) on the legrest fully. Remove the screw (B). Set the height.

Replace the screw and handle. Tighten securely.

With standard attachment tube:
Max. length: 51 cm. Min. length: 33 cm.

With extended attachment tube:
Max. length: 61 cm. Min. length: 46 cm.

With short attachment tube:
Max. length: 41 cm. Min. length: 31 cm.



8:7 Footrests, angle and depth adjustment

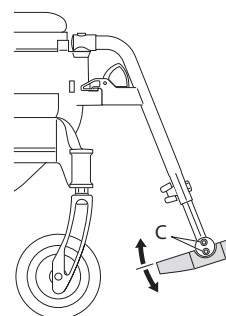
The footrests are continuously angle-adjustable and have two alternative depth settings.

Angle: Loosen the screws (C) 1/2-3/4 turn. Angle the footrest to the required position and tighten the screws.

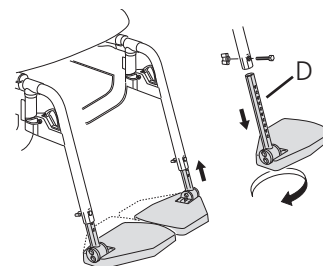


Tools: 5 mm Allen key

Depth: The attachment tube (D) is secured to the footrest 1/3 from the front edge. By changing the left side for the right they will extend further forwards. Pull out the footrest and attachment tube, turn it 180° and secure it to the other legrest tube. Adjust the footrest angle.



Tools: 5 mm Allen key
(to adjust the footrest angle)



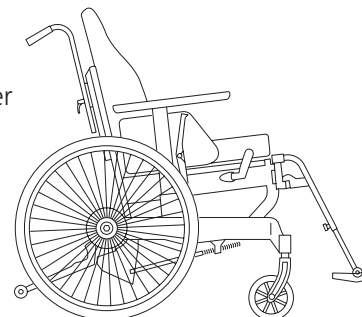
9 Settings backrest/headrest

9:1 Backrest

The backrest is settable in height and angle and has adjustable back pad or settable cloth upholstery.
The push handle is height adjustable.



Risk of tipping! Always check the position of the anti-tips after adjusting the backrest.



9:2 Backrest height

The backrest is infinitely settable.

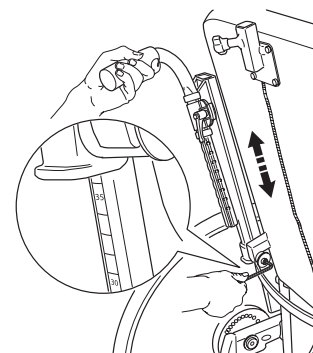
Loosen the screws on the inside of the back tubes by 2-3 turns. Adjust the height by pulling/pushing the backrest upwards/downwards.

If the height is adjusted with the back pad removed or the chair is equipped

with settable cloth upholstery, ensure that both back tubes are adjusted equally by checking the height against the straight edge on the rear of the backrest.
Tighten the screws securely.



Tools: Allen key 5 mm



9:3 Backrest angle

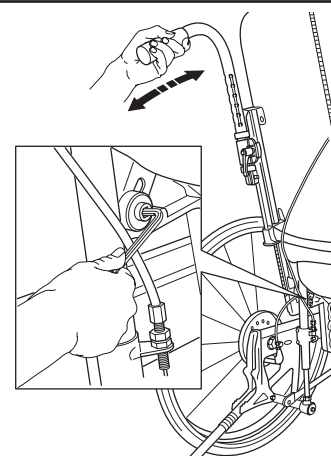
The backrest angle is continuously settable.

Loosen the screw on the inside of the backrest joint. The brake cable can be angled down for better access. Adjust to the required angle and tighten.



Tools: Allen key 5 mm

Risk of tipping! Always check the position of the anti-tips after changing the backrest angle.



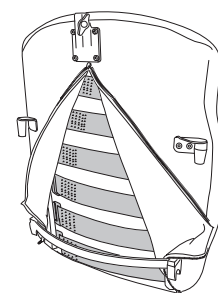
9:4 Back pad (ECS)

The contour of the backrest upholstery is individually adjustable by using Velcro straps.

Loosen all the straps and ensure that the user is sitting as far back in the seat as possible.



Risk of tipping! Always check the anti-tips after adjusting the backrest upholstery.



9 Settings backrest/headrest

9:5 Settable cloth upholstery

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

- Allow the cover plenty of room between seat and backrest, so that it is possible to "sit in" against the backrest.

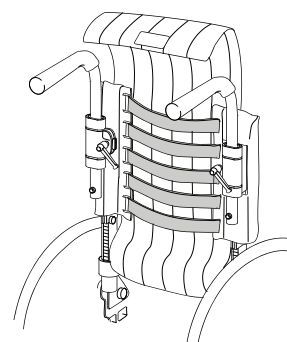
- Loosen all straps and ensure that the user is sitting as far back in the seat as possible.

- Tighten the straps so that they follow the contours of the back and give support to the curve of the back.



Risk of tipping: Always check the positioning of the anti-tips after adjusting the backrest upholstery.

(!) Do not overtighten the upper straps as this can prevent the cross-brace from unfolding properly, i.e. the back tubes do not sit flush in the side-frames.



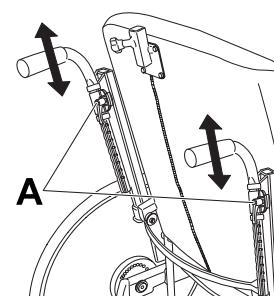
9:6 Height adjustable push handles

The push handles can be set at intervals of 2 cm.

Loosen the knob (A) and press the plastic washer. Install desired height. Ensure that the push handles are locked in the correct position. Tighten the knobs.



Ensure that the knobs are properly tightened. This is especially important when the chair is to be lifted with the user sitting in it.



9:7 Bow handle (option)

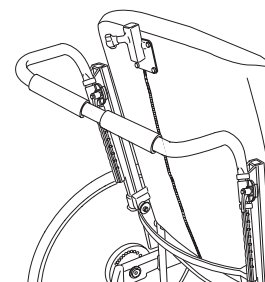
The bow handle is height adjustable and detachable.

It is mounted in the push handle attachment, and is adjusted in the same way as the height-adjustable push handles. It is also possible to mount a headrest on the bow handle.



Ensure that the knobs are properly tightened. This is especially important when the chair is to be lifted with the user sitting in it.

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



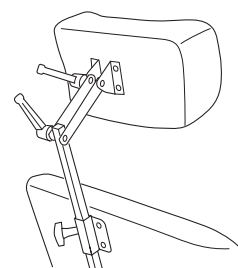
9:8 Headrest

The headrest is mounted on the back pad or bow handle (option). A separate attachment is required for a bow handle. It is adjustable in height, depth and angle, and is detachable.



Check the balance of the wheelchair when the user leans against the headrest. We recommend the use of anti-tips.

(!) Before adjusting the headrest, ensure that the user has a good, secure sitting posture.



10 Centre of balance, brake

10:1 Rear wheels, balance adjustment

The rear wheels have 2 alternative positions for balance adjustment.

Remove the rear wheels by depressing the button in the centre of the hub. Undo the nut on the inside of the bar. The brake cable can be angled downwards for better access. Pull out the attachment and select new position. Secure the attachment with washers as shown in the diagram.

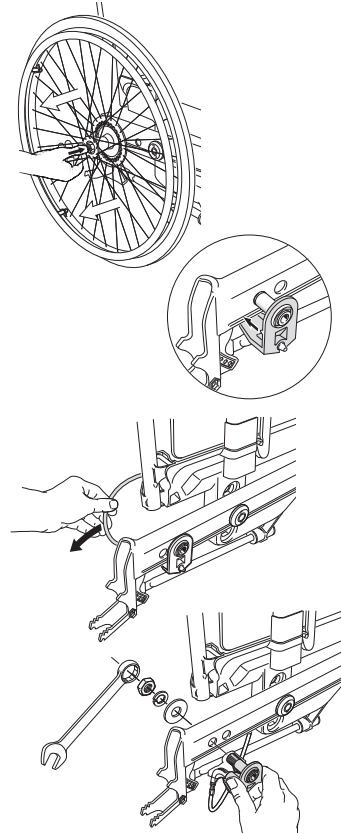
NB: The lower section of the attachment must fit into the notch on the chassis. The brakes need no readjustment.



Tools: 24 mm ring spanner



Bear in mind the risk of tipping.



10:2 Brake, adjustment of brake cable

The brakes function regardless of the tyre pressure, and do not need to be adjusted when changing rear wheel size or position.

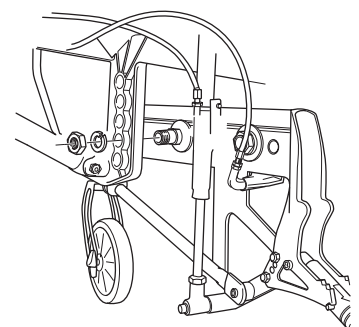
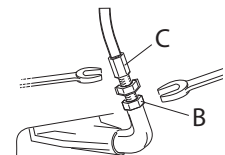
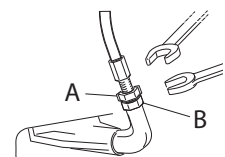
If the brakes need adjusting, do so by altering the length of the brake cable: Loosen the top nut (A), so that the bottom one (B) can be adjusted.

Tighten or loosen the bottom nut, so that the brake pin does not touch the wheel when turning. At the same time, keep hold of the hexagonal terminal (C) on the cable housing. Check the function of the brakes.

Screw clockwise: The pin moves in.
Screw anticlockwise: The pin moves out.



Tools: 8 and 10 mm U-spanner.



11 Settings anti-tips

11:1 Anti-tips, flip-up

The anti-tips are mounted on the tilters. To raise them, pull the sleeve around the tilter downwards while folding it upwards.

Ensure that the anti-tips "click into position", when extended or folded.

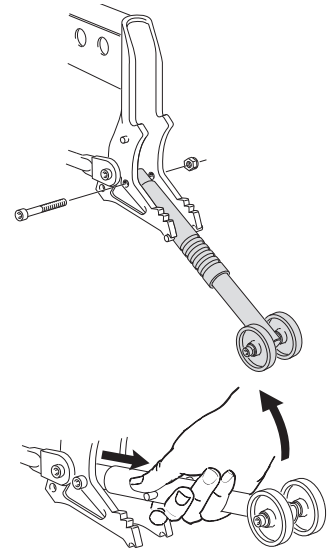
Special anti-tips are required with 20" rear wheels.



5 mm Allen key

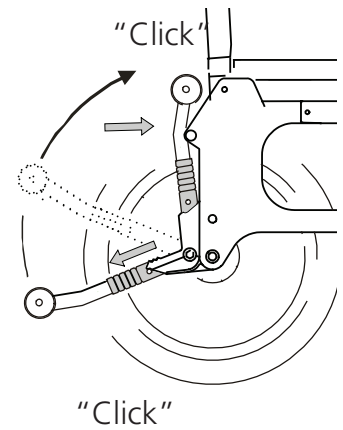
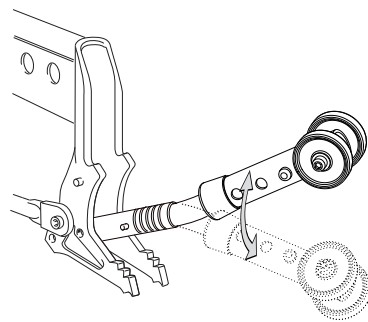
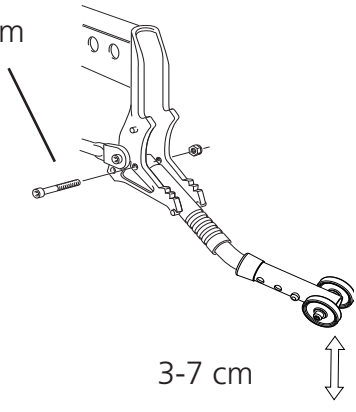


After adjusting the seat height, centre of balance or backrest angle, always ensure that you check the function of the anti-tips.



11:2 Anti-tip, telescoping

Max. 5 Nm



12 Changing castor wheels/handrims

12:1 Changing castor wheels

Next Comfort can be equipped with 125 mm (5"), 150 mm (6") or 175 mm * (7") castors.

Select a size to suit driving technique and environment, not to alter the seat height or angle.

* 175 mm is only suitable with 24" rear wheels (not in rear wheel position D, short frame).

Remove existing castor wheel by unfastening screw and nut.
Move the plastic components to the hole on the fork that is marked with the specific castor size.
Secure the new castor wheel.

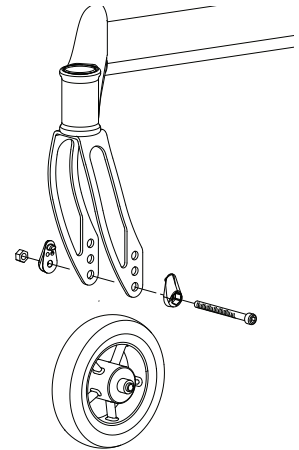
Each rear wheel size has a specific accompanying fork size. See table in section 17 (Alternative seat heights/angles). For higher and lower seat heights see non-standard combinations. Contact customer service.



Tools: 5 mm Allen key

The bar must always be in the horizontal position.

24"	22"	20"



12:2 Handrims

Next Comfort is delivered as standard with aluminium handrims. The way in which the user is able to grip the handrims is influenced by the handrims material and its distance from the wheel. Stainless and plastic coated handrims are available as options.



The plastic coated handrims give a better grip, but also increase friction. Violent braking can cause mild friction burns (e.g. blisters).



Be aware that when passing through narrow spaces there is a risk of getting your fingers caught. There is also a risk of fingers getting caught in the spokes.



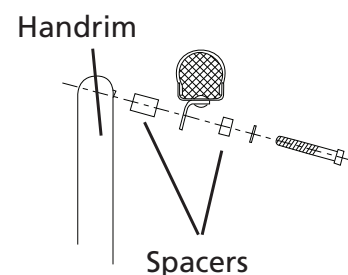
If there is a risk of the user's fingers getting caught in the spokes we recommend spoke guards.

12:3 Adjusting the distance of the handrim

The distance between the wheel and the handrim can be adjusted by adding or removing spacers.



Tools: 4 mm Allen key.



13 Driving technique, settings manoeuvring

13:1 Driving technique

Weight distribution is the decisive factor when it comes to operating conditions. It is in part dependent upon the user's weight, size and seating position and in part upon the position of the rear wheels longitudinally.

The more weight that is placed over the rear wheels, the easier the wheelchair is to manoeuvre. The more weight over the castor wheels, the heavier the chair becomes to operate.

Care giver:

If the user is left alone in the wheelchair, ensure that the brakes are applied and that the anti-tip is swung down.

Parking:

Increase the overall support base of the wheelchair by reversing for about 10 cm, thereby ensuring the castor wheels swing forwards.

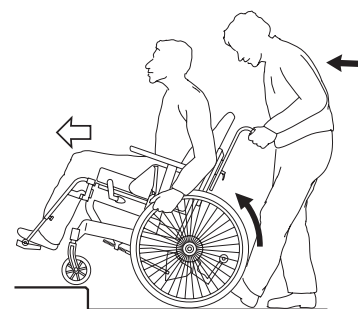
13:2 Ascending kerbs, higher thresholds

Care giver, driving up forwards:

- Ensure that the anti-tips are turned upwards.
- Tilt the wheelchair, if necessary with help from a tilter, so that the castor wheels come up on the pavement.
- Lift by the push handles to help the rear wheels up.



Lower the anti-tips again.



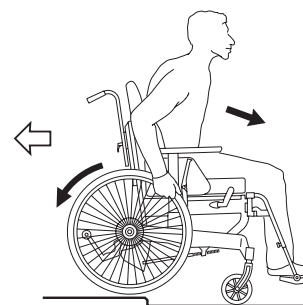
User, driving up backwards:

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

- Ensure that the anti-tips are turned upwards.
- Reverse to the edge of the kerb/threshold.
- Take a firm hold of the handrims while at the same time leaning forwards.



Lower the anti-tips again.

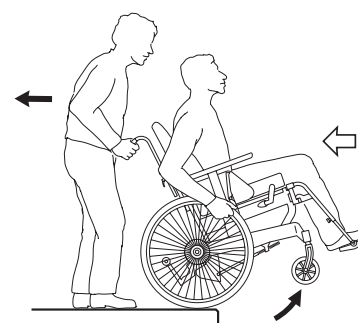


Care giver, driving up backwards:

- Ensure that the anti-tips are turned upwards.
- Reverse the chair to the edge of the kerb/threshold.
- Tilt the wheelchair up, if necessary with help from the tilter, so that the castor wheels are in the air.
- Pull the wheelchair upwards and backwards, ensuring that the castor wheels have cleared the edge before setting down the wheelchair on all four wheels.



Lower the anti-tips again.



13 Driving technique, settings manoeuvring

13:3 Descending kerbs

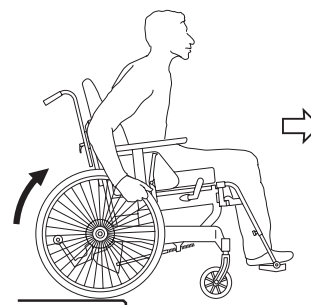
User, driving down forwards:

This technique is recommended only for experienced wheelchair users.

- Ensure that the anti-tips are turned upwards.
- Drive forward to the edge of the kerb.
- Take a firm hold on the handrims and drive "straight out" so that the wheelchair lands below the kerb on all four wheels simultaneously.



Lower the anti-tips again.

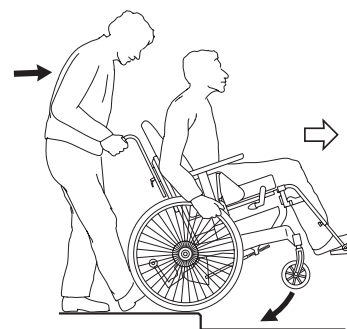


Care giver, driving down forwards:

- Ensure that the anti-tips are turned upwards.
- Tilt the wheelchair, if necessary with help from a tilter, so that the castor wheels are in the air.
- Drive carefully down the kerb and set down the castor wheels onto the ground again.



Lower the anti-tips again.



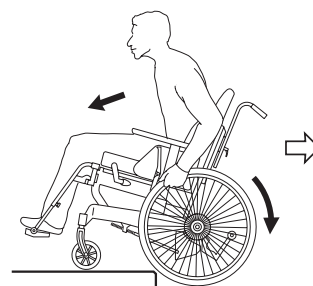
User, driving down backwards:

This technique is not recommended for differences in level of over 10 cm.

- Ensure that the anti-tips are turned upwards.
- Reverse to the edge of the kerb.
- Reverse carefully down while at the same time leaning forwards.



There is a greater risk of tipping during this manoeuvre. Lower the anti-tips again.

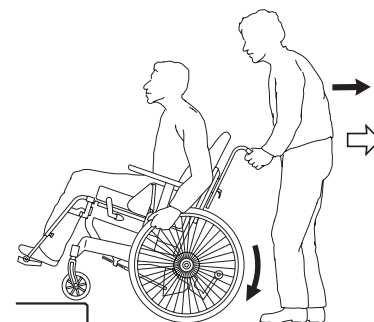


Care giver, driving down backwards:

- Ensure that the anti-tips are turned upwards.
- Reverse the wheelchair to the edge of the kerb.
- Drive carefully down the kerb and reverse the wheelchair on the rear wheels until the castors have cleared the obstacle.
- Set down the wheelchair on all four wheels.



Lower the anti-tips again.



13 Driving technique, settings manoeuvring

13:4 Driving technique, inclined surface

The following constitutes important advice for driving up or downhill to avoid the risk of tipping.

- (!) Avoid turning round in the middle of a hill. Always drive as straight up/down as possible. It is better to ask for help than to take a risk on your own.

Uphill driving: Lean forwards to correct your centre of balance.

Downhill driving: Lean against the backrest to correct your centre of balance. Control your speed using the handrims, not by means of the brakes!

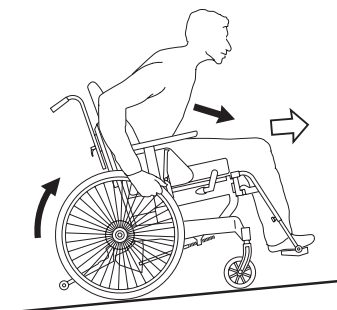
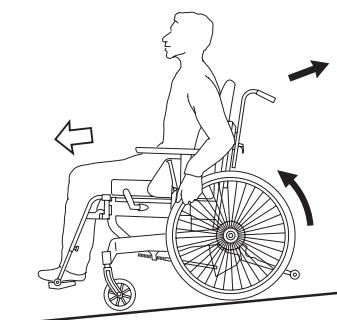
If you need to stop on a slope and apply the brakes, it can feel as if the brake levers have jammed when you try to release them again.

Uphill slope: Push the handrim forward as you release the brake.

Downhill slope: Brace your weight against the handrim as you release the brake.

With a care giver: Push the wheelchair gently forward or brace your weight against it as the brakes are released.

Experienced wheelchair users: "Rock" your upper body as the brakes are released.



13:5 Negotiating stairs, up



Always ask for help. Never travel on an escalator, even if there are care givers available. We always recommend using two carers for this transfer. One who walks behind and holds on to the push handle and one who walks in front and holds on to the frame (or in the legrests if these are lockable).

With care giver, backwards:

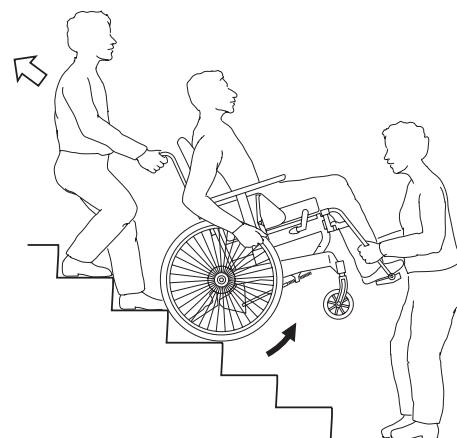
- Flip up the anti-tips and ensure that height adjustable push handles are properly tightened.
- Reverse the wheelchair to the first step.
- Tilt the chair onto its rear wheels, using the tilter if necessary.
- Pull the wheelchair slowly upwards, one step at a time, keeping the wheelchair balanced on its rear wheels at all times.

- When the last step has been cleared, continue backwards so that the castor wheels are over the ground before setting down the wheelchair onto all four wheels.



Lower the anti-tips again after completed transfer.

- (!) The care givers should remember to use the strength in their legs and to keep their backs as straight as possible while lifting.



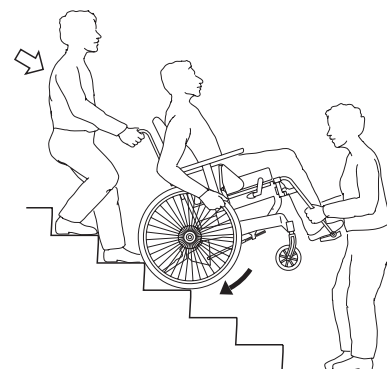
13 Driving technique, settings manoeuvring

13:6 Negotiating stairs, down



Always ask for help. Never travel on an escalator, even if there are care givers available. We always recommend using two carers for this transfer. One who walks behind and holds on to the push handle and one who walks in front and holds on to the frame (or in the legrests if these are lockable).

- Drive forwards to the first step and tilt the chair onto its rear wheels, if necessary using the tilter to help.
- Descend carefully one step at a time, keeping the wheelchair balanced on its rear wheels at all times.
- After the last step, set down the wheelchair on all four wheels.



Be sure to turn the anti-tips back to the down position after completed transfer.

With care giver, forwards:

- Flip up the anti-tips and ensure that height adjustable push handles are properly tightened.

- (!) The care givers should remember to use the strength in their legs and to keep their backs as straight as possible while lifting.

13:7 Transferring into/out of the wheelchair

The technique for transferring a user should be practised with trained personnel.

All that is provided here is some important advice to consider in conjunction with transferring a user into or out of the wheelchair.

With or without a care giver, sideways.

Before transferring:

- Position the wheelchair close to the new seat.
- Reverse the wheelchair 5-10 cm so that the castors are turned fully forwards.
- Apply the brakes, remove or swing up armrest/side guard and legrest on the side you intend to move across.

With or without a care giver, from the front.

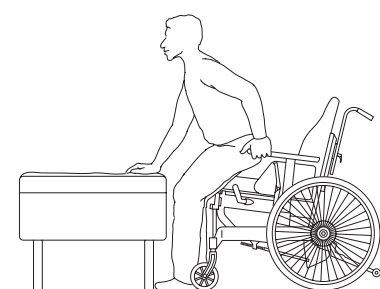
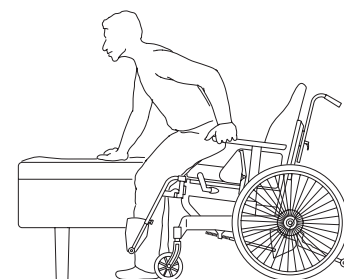
Before transferring:

- Position the wheelchair close to the new seat.
- Reverse the wheelchair 5-10 cm so that the castors are turned forwards.
- Apply the brakes and swing the legrests in under the seat.



Never stand on the footrests as there is a risk of tipping!

- (!) The care givers should remember to use the strength in their legs and to keep their backs as straight as possible while lifting.



14 Assembly instructions accessories

Assembly instructions are provided with all accessories when they are supplied by Etac.

Instructions are also available on our website www.etac.com

14:1 Armrest, lockable and detachable, height adjustment

The armrest comes in two versions, with short or long armrest guard. To remove the armrest, move the spring-mounted lever backwards, towards the armrest bracket, and lift up the armrest.

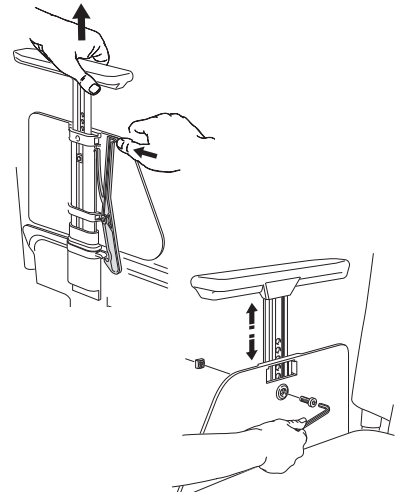
Height adjustment: The screw/nut is used both to set the height of the armrest and secure the side guard:

- Undo screw and nut.
- Slide the side guard up or down to the desired height.
- Secure the sideguard again.



Tools: 5 mm Allen key.

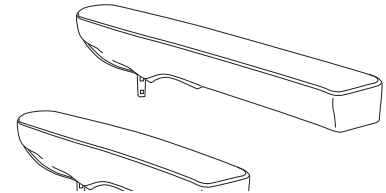
Never use the armrests to lift the wheelchair.



14:2 Padded cover, armrest

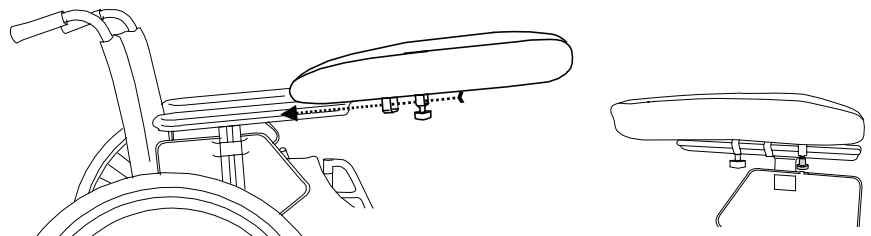
The armrests can either be supplemented with, or ordered complete with, a padded or gel cover. They are manufactured in dark grey plush and are washable.

- (!) The padded cover makes the armrest 1.5-2 cm higher.



14:3 Armrest cushion Hemi

Swing-away for mounting on long armrests.



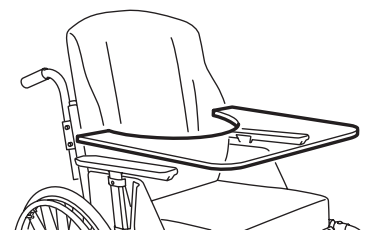
14:4 Tray

The tray is made of polycarbonate, with a recess to fit round the body. It is available in a range of sizes depending on the wheelchair's width. It is mounted on the long armrests using Velcro straps.

The height is adjusted along with the armrests.



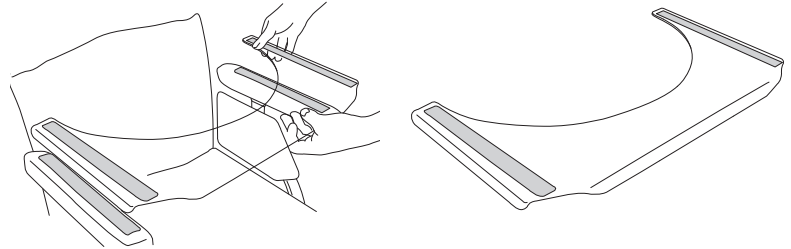
Tools: 5 mm Allen key (for adjusting the height of the armrests)



14 Assembly instructions accessories

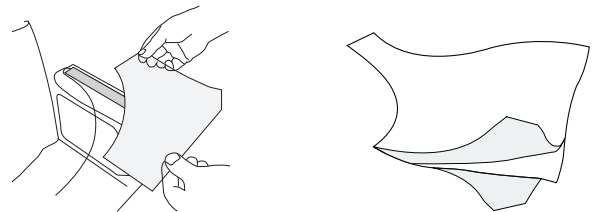
14:5 Hemi Tray

The Hemi Tray is attached to the accompanying padded armrest covers by means of the Velcro tape. These are supplied with Velcro on the upper side. The height is adjusted with the armrest.



The tray can be fitted onto short or long armrests.

14:6 Anti-slip device for the Hemi tray



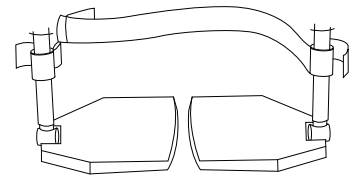
14:7 Calf strap

The calf strap is in two parts and can be separated when the legrests are swung out to the sides. The length can be adjusted. It can be mounted at any height with self-adhesive Velcro around the legrests.

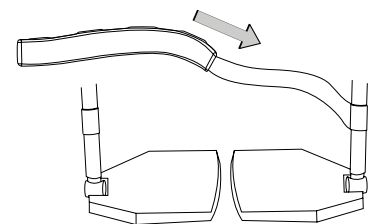
(!) Adjust the length so that the foot is placed in the centre of the footrest.



Before transferring into/out of the wheelchair separate the calf strap and flip up the footrests.

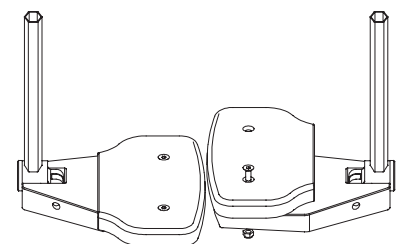
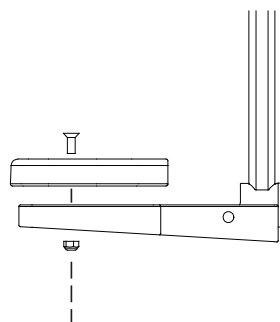


14:8 Padding for calf strap



14:9 Extended footrest

Extended footrests fit onto the existing footrests. Hole instructions for fitting the screw are on the bottom of the footrest. Make the hole by carefully knocking the screw through the plate, e.g. with a hammer.



Tools: 3 mm Allen key

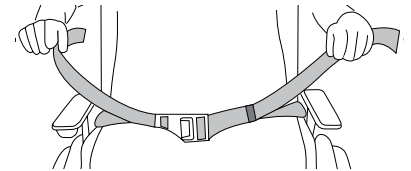
14 Assembly instructions accessories

14:10 Positioning belt

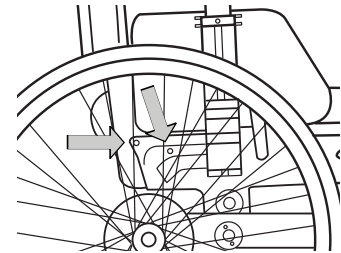
The positioning belt is in two parts, is adjustable in length and has a snap-lock. It can be fitted to the back joints or in the holder on the side of the frame.



The belt is to be used only for positioning in the wheelchair. It must not be used as a substitute for a car safety belt.



- (!) Ensure that the user does not slide forwards in the seat as this can lead to the belt impairing the supply of blood to the hip/waist area.

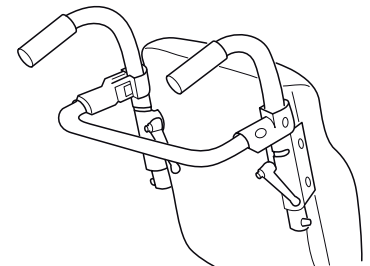


14:11 Cross brace, backrest

A cross brace can be fitted to the backrest for extra stability. It is recommended for high and/or rear-leaning backrests. The cross brace is fixed to the push handles and can easily be removed using the snap lock.



The cross brace must be uncoupled if the chair is to be folded.



14:12 Cane holder, mounting

- Loosen the screws that hold the anti-tip bar. Fit the cane holder. Fit the screw and tighten.
- Thread the elastic strap 'double' around the stick to make a loop. The tip of the stick may have to be removed to allow you to attach the elastic.

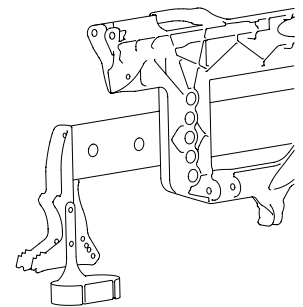
- Place the stick in the holder and stretch the elastic loop over the push handle.



Tools: 5 mm Allen key.



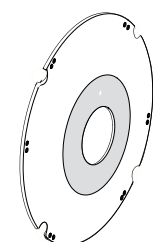
Check the function of the anti-tips.



14:13 Spoke guards

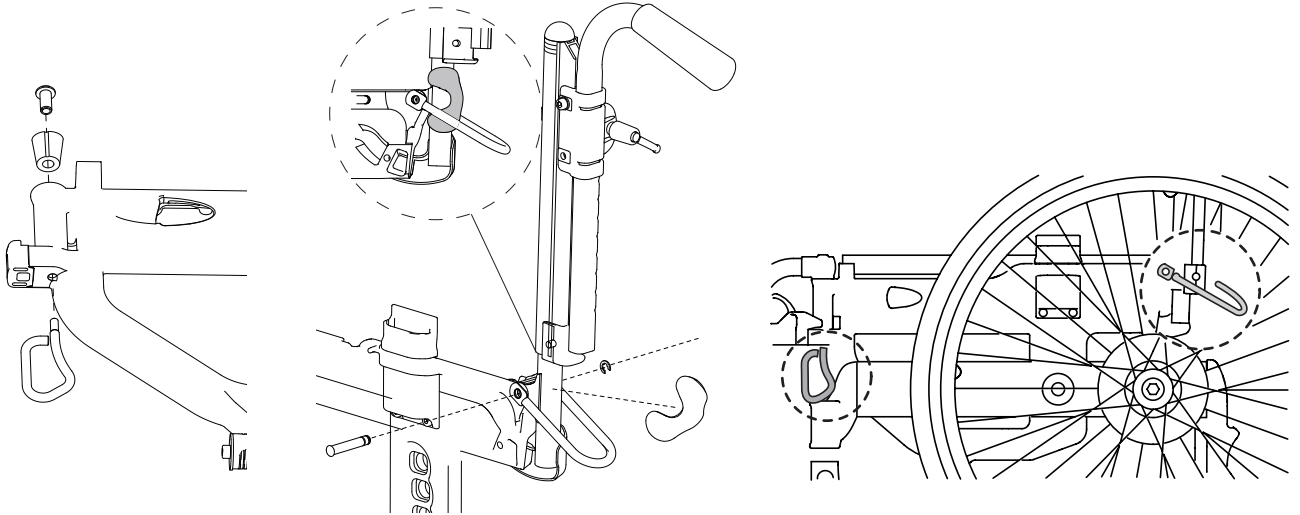
The spoke guards prevent your fingers from becoming entangled in the spokes and also give some protection against splashing. They come in three sizes, corresponding to our rear wheel dimensions.

Fitted without tools using the plastic components supplied.

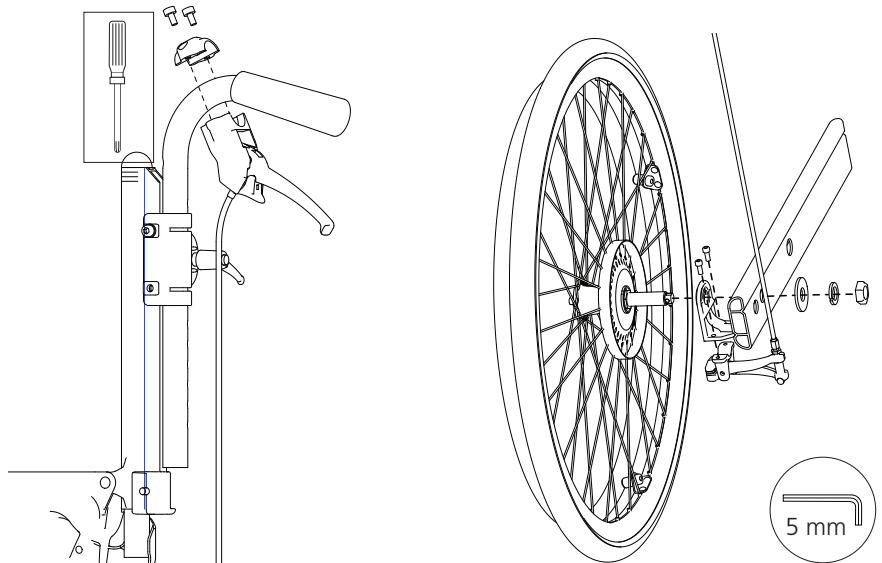


14 Assembly instructions accessories

14:14 Transport attachment



14:15 Drum brake



15 Care and maintenance

Upholstery, back pad and seat cushion (ECS)

Remove any seat cushion and back pad according to point 2:2. Take off the upholstery and wash according to the washing instructions on the product.

Settable cloth upholstery, backrest and seat

The upholstery is made of two-ply polyester. The seat upholstery is fastened lengthways to the seat frame.

The upholstery can easily be removed from the frame by unscrewing the end caps.

The backrest upholstery is removed by undoing the push handle attachments.

Then pull the upholstery upwards and wash according to the washing instructions on the product.

Rear wheel/castor

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

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

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.

Ball bearings: Require no maintenance.

Handrims: If a handrim should be damaged in such a way that it could lead to injury, it should be replaced.

Brakes

The braking effect is independent of the air pressure in the tyres. Encrusted dirt can have a negative effect on the brake mechanism.

Check the functioning of the brakes once a month. In the event of adjustments, see section 10 Centre of balance/brake.

Washing the frame

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

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.

Miscellaneous

If there is a fault in your wheelchair you should contact your dealer or Technical Aids Centre. Defective wheelchairs should not be used.

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

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

(!) When necessary, lubricate moving parts/joints with bicycle oil or similar.

15 Care and maintenance

Fault-finding chart

Problem*	Solution
The wheelchair pulls to the side	<ul style="list-style-type: none"> • Inflate the tyres • Rear wheel mountings are incorrectly fitted • The user is distributing weight unevenly • Release the tilt handle so that the bars are parallel
The wheelchair feels "heavy" to propel	<ul style="list-style-type: none"> • Inflate the tyres • Rear wheel mountings are incorrectly fitted • Clean the castor axles from hair and dirt • Too much weight over the castors. Adjust the centre of balance
The wheelchair feels "heavy" to turn	<ul style="list-style-type: none"> • Inflate the tyres • Clean the castor axles from dirt • Too much weight over the castors. Adjust the centre of balance
Brakes not effective	<ul style="list-style-type: none"> • Adjust the cable length, see section 10, Centre of balance/brake
Rear wheels "loose"	<ul style="list-style-type: none"> • Adjust the length of the axle shaft
Rear wheels hard to remove/replace	<ul style="list-style-type: none"> • Clean and lubricate the quick release with cycle oil or similar • Adjust the length of the axle shaft
The castors "wobble"	<ul style="list-style-type: none"> • The front forks are not tight enough • Too much weight over the castors. Adjust the centre of balance
The wheelchair is hard to fold/unfold	<ul style="list-style-type: none"> • The backrest upholstery is too tight • Clean and lubricate the cross-brace under the seat
The wheelchair feels "awkward"	<ul style="list-style-type: none"> • Inflate the tyres • Check that screws, nuts and bolts are properly tightened
The wheelchair stands on three wheels	<ul style="list-style-type: none"> • Place the chair on a level surface, press in the tilt handle and release.
Tilting not working	<ul style="list-style-type: none"> • Adjust the length of the cable.

(!) When necessary, lubricate moving parts/joints with bicycle oil or similar.

* The user may experience several of these problems if the wheelchair is incorrectly adjusted or is being incorrectly used.

16 Tests and guarantees

Next Comfort is tested and approved for use indoors and outside and is CE marked. Max. user weight is 135 kg.

The Swedish Institute of Assistive Technology carries out both functional and technical tests. Testing methods conform to ISO standard 7176.

CE marking: The product has passed all tests and met all criteria set by European standards for specific product groups.

A proof that the product meets national and EU MDD (Medical Device Directive) requirements.

Gives customers the chance to choose the right product by comparing test data.

Guarantee: 5 year guarantee against material and manufacturing defects. For terms and conditions, see www.etac.com

Special adaptations comprise everything that falls outside the instructions and settings in this Manual. Wheelchairs specially adapted by customers are not eligible for Etac's CE marking. Etac's guarantee no longer applies. If in the least doubt about the validity of adjustments, please contact Etac for advice.

17 Alternative seat heights/angles

Seat height and angle are set according to section 7, "Settings seat". The castor wheels should not be replaced in order to change the height or angle of the seat, but should be selected solely with respect to driving technique and environment.

Seat height with seat tilted back +3° (Etac Comfort Seating)

	24"	22"	20"
D	44 cm	42 cm	40 cm
C	46.5 cm	44.5 cm	42.5 cm
B	49 cm	47 cm	45 cm

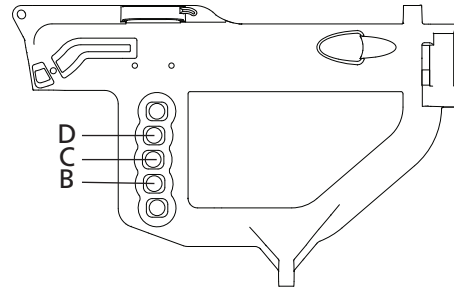
Dimensions and tolerance +/- 2%.

Dimensions from the ground to upper edge of the unpadded seat.

Seat cushion 6 cm, unloaded.

At 0° seat angle, the dimensions in the table are reduced by 2 cm.

At -3° seat angle, the dimensions in the table are reduced by 4 cm.



Seat height with seat tilted back +3° (settable cloth upholstery)

	24"	22"	20"
D	46 cm	44 cm	42 cm
C	48.5 cm	46.5 cm	44.5 cm
B	51 cm	49 cm	47 cm

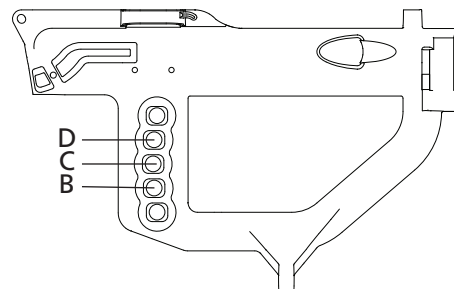
Dimensions and tolerance +/- 2%.

Dimensions from the ground to upper edge of the seat frame.

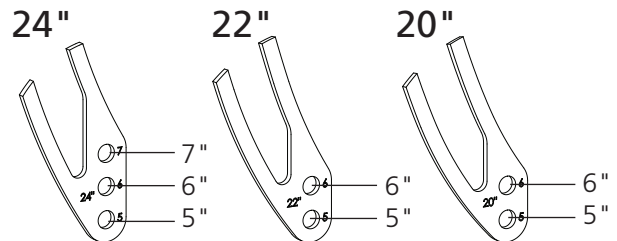
Seat cushion 6 cm, unloaded.

At 0° seat angle, the dimensions in the table are reduced by 2 cm.

At -3° seat angle, the dimensions in the table are reduced by 4 cm.



Fork	Castor wheel		
 24"	7" = 175x45 mm*	6" = 150x30 mm	5" = 125x30 mm
 22"	-----	6" = 150x30 mm	5" = 125x30 mm
 20"	-----	6" = 150x30 mm	5" = 125x30 mm










Note the position in which each castor wheel is to be mounted. Incorrect mounting has a negative effect on operating conditions, as the front fork mountings are not adjustable on Next Comfort. The bar must be in the horizontal position.

(!) Non-standard combinations are available: Several rear wheels and castors. Contact customer service.

*Can not be used on short frame chair with rear wheel in position D.









18 Weights and dimensions, Etac Comfort Seating

Type of chair 	Art. no.	Seat depth 	Seat height 	Backrest height 	Total width 	Transport width 	Weight incl. rear wheel, legrest, anti-tips, ht. adj. push handle, seat and backrest 
35 cm short	13202001	35-41 cm	44-49 cm	59-69 cm	54.5 cm	23 cm	24.0 kg
35 cm long	13202002	41-47 cm	44-49 cm	59-69 cm	54.5 cm	23 cm	25.2 kg
37.5 cm short	13202003	35-41 cm	44-49 cm	59-69 cm	57.0 cm	23 cm	24.0 kg
37.5 cm long	13202004	41-47 cm	44-49 cm	59-69 cm	57.0 cm	23 cm	25.2 kg
40 cm short	13202005	35-41 cm	44-49 cm	59-69 cm	59.5 cm	23 cm	24.4 kg
40 cm long	13202006	41-47 cm	44-49 cm	59-69 cm	59.5 cm	23 cm	25.6 kg
42.5 cm short	13202007	35-41 cm	44-49 cm	59-69 cm	62.0 cm	23 cm	24.4 kg
42.5 cm long	13202008	41-47 cm	44-49 cm	59-69 cm	62.0 cm	23 cm	25.6 kg
45 cm short	13202009	35-41 cm	44-49 cm	59-69 cm	64.5 cm	23 cm	25.0 kg
45 cm long	13202010	41-47 cm	44-49 cm	59-69 cm	64.5 cm	23 cm	26.3 kg
47.5 cm short	13202011	35-41 cm	44-49 cm	59-69 cm	67.0 cm	23 cm	25.0 kg
47.5 cm long	13202012	41-47 cm	44-49 cm	59-69 cm	67.0 cm	23 cm	26.3 kg
50 cm short	13202013	35-41 cm	44-49 cm	59-69 cm	69.5 cm	23 cm	25.3 kg
50 cm long	13202014	41-47 cm	44-49 cm	59-69 cm	69.5 cm	23 cm	26.5 kg

Next Comfort: The dimensions and weights indicated apply to chairs with 24" rear wheels high pressure/aluminium handrims, legrests, anti-tips and height-adjustable push handles, seat and backrest cushion in PE. Height at front is measured from the top of the unpadded seat with the seat tipped +3° backwards, the height at the back is measured from the top of the unpadded seat and the seat depth is measured from the back tubes.

Dimensions and tolerance +/- 2%.

18 Weights and dimensions, settable cloth upholstery

Type of chair 	Art. no. 	Seat depth 	Seat height 	Backrest height 	Total width 	Transport width 	Weight incl. rear wheel, legrest, anti-tips, ht. adj. push handle, seat and backrest 
35 cm short	13202001	35-41 cm	46-51 cm	31-45 cm	54.5 cm	23 cm	20.1 kg
35 cm long	13202002	41-47 cm	46-51 cm	31-45 cm	54.5 cm	23 cm	21.0 kg
37.5 cm short	13202003	35-41 cm	46-51 cm	31-45 cm	57.0 cm	23 cm	20.1 kg
37.5 cm long	13202004	41-47 cm	46-51 cm	31-45 cm	57.0 cm	23 cm	21.0 kg
40 cm short	13202005	35-41 cm	46-51 cm	31-45 cm	59.5 cm	23 cm	20.3 kg
40 cm long	13202006	41-47 cm	46-51 cm	31-45 cm	59.5 cm	23 cm	21.2 kg
42.5 cm short	13202007	35-41 cm	46-51 cm	31-45 cm	62.0 cm	23 cm	20.3 kg
42.5 cm long	13202008	41-47 cm	46-51 cm	31-45 cm	62.0 cm	23 cm	21.2 kg
45 cm short	13202009	35-41 cm	46-51 cm	31-45 cm	64.5 cm	23 cm	20.6 kg
45 cm long	13202010	41-47 cm	46-51 cm	31-45 cm	64.5 cm	23 cm	21.6 kg
47.5 cm short	13202011	35-41 cm	46-51 cm	31-45 cm	67.0 cm	23 cm	20.7 kg
47.5 cm long	13202012	41-47 cm	46-51 cm	31-45 cm	67.0 cm	23 cm	21.6 kg
50 cm short	13202013	35-41 cm	46-51 cm	31-45 cm	69.5 cm	23 cm	20.8 kg
50 cm long	13202014	41-47 cm	46-51 cm	31-45 cm	69.5 cm	23 cm	21.7 kg

Next Comfort: The dimensions and weights indicated apply to chairs with 24" rear wheels, high pressure/aluminium handrims, legrests, anti-tips and height-adjustable push handles, seat and backrest cushion in two-ply polyester. Height at front is measured from the top of the seat frame with the seat tipped +3° backwards, the height at the back is measured from the top of the seat frame and the seat depth is measured from the back tubes.

Dimensions and tolerance +/- 2%.

Etac Sverige AB
Box 203
334 24 Anderstorp
Sweden

Tel 0371-58 73 00
Fax 0371-58 73 90
info@etac.se
www.etac.se

Etac GmbH
Bahnhofstraße 131,
45770 Marl,
Germany

Tel 02365-98710
Fax 02365-986115
info@etac.de
www.etac.de

Etac AB (export)
Box 203
334 24 Anderstorp
Sweden

Tel 46 371-58 73 30
Fax 46 371-58 73 90
info@etac.se
www.etac.com

Etac Holland BV
Fluorietweg 16a,
1812RR Alkmaar,
Nederland

Tel +31 72 547 04 39
Fax +31 72 547 13 05
info.holland@etac.com
www.etac.com

Etac AS
Pb 249,
1501 Moss,
Norway

Tel 815 69 469
Fax 69 27 09 11
hovedkontor.norge@etac.com
www.etac.no

Etac UK Limited
29 Murrell Green Business Park
London Road, Hook, Hampshire
RG27 9GR, United Kingdom

Tel 01256 767 181
Fax 01256 768 887
info@etacuk.com
www.etac.com

Etac A/S
Egeskovej 12
8700 Horsens
Denmark

Tel 79 68 58 33
Fax 75 68 58 40
info@etac.dk
www.etac.dk

R82 UK Limited.
Unit D4A, Coombswood Business
Park East
Coombswood Way, Halesowen
West Midlands B62 8BH
United Kingdom

Tel 0121 561 2222
Fax 0121 559 5437
enquiries@etac.uk.r82.com
www.etac.com

Snug Seat, Inc.
12801 E. Independence Boulevard
P.O. Box 1739
Matthews, NC 28106, USA

Tel 800 336 7684
Fax 704 882 0751
Information@snugseat.com
www.etac.com



Etac Supply Center AB
Långgatan 12
SE-334 24 Anderstorp



7 320451 307484 >

74730

 **etac**®