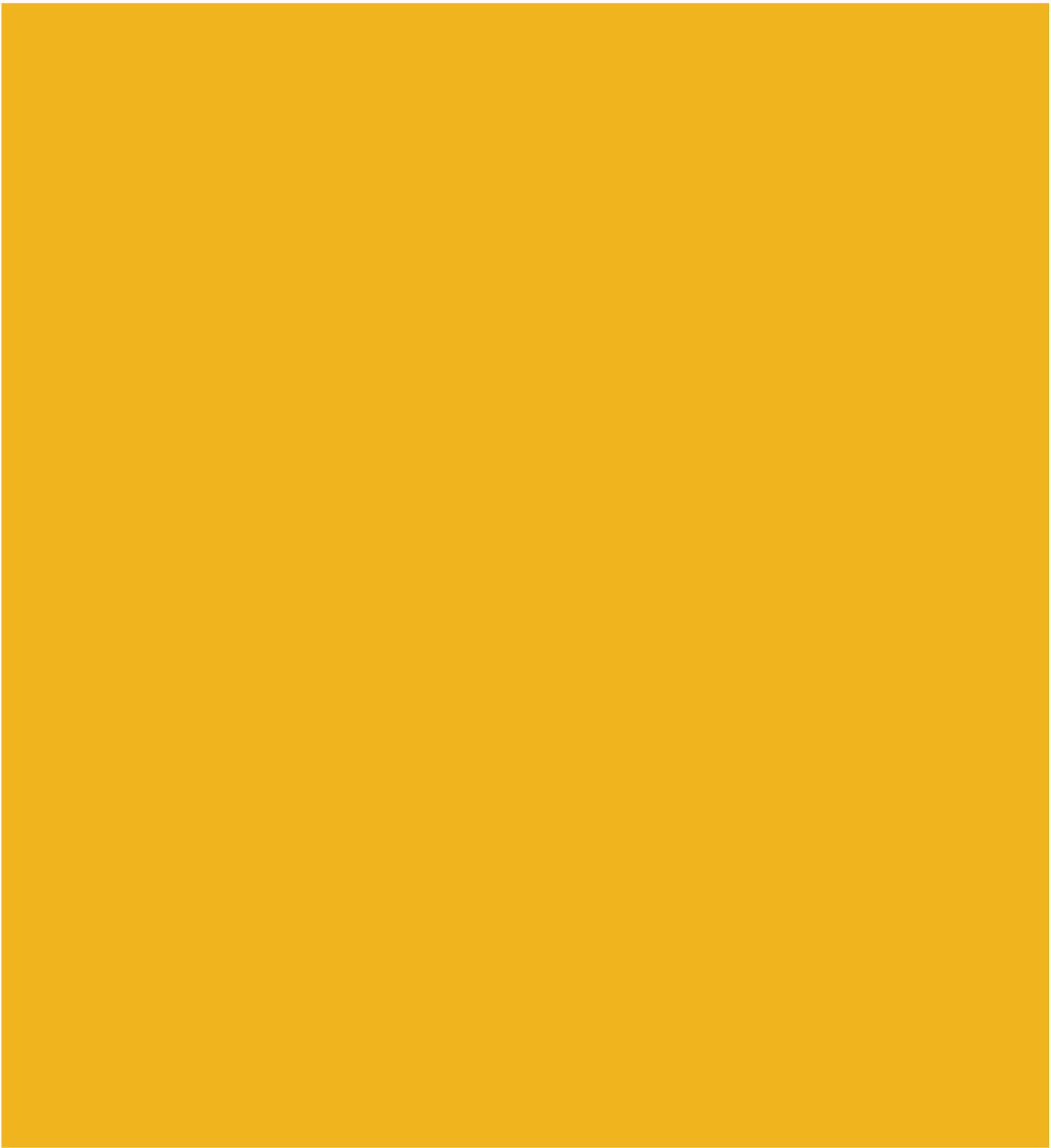


Next

User manual / English



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This manual is valid from June 2004.

Item no.: 74466A 04-10-13

1 GENERAL

To avoid injury when handling and using the Next wheelchair, please read the manual carefully.



is a warning triangle indicating instances where particular care is required.



gives useful advice and tips

Anti-tippers are available as an accessory. They prevent the wheelchair from tipping backwards. We recommend that all users utilise the anti-tip stabilisers. The only exception is experienced users who are able to fully control their wheelchair.

Next is an all-round wheelchair designed for indoor and outdoor use. It has been tested and approved in accordance with ISO standard 7176.

Tests have been carried out by the Swedish Handicap Institute.

Crash test

Etac's wheelchairs are tested and approved in accordance with ISO 7176-19 and 10542. These ISO standards include requirements regarding how the wheelchair's fixing points are designed, how the wheelchair and user are secured in the vehicle and a description of how the testing is to be performed and how the test results are to be interpreted.

Etac's wheelchairs are crash-tested by the Swedish Testing and Research Institute.

The test was performed with normal adjustments to the wheelchair and with the transport attachment accessory (see manual). A restraint device UNWIN_WWR/ATF/K/R and a three-point belt UNWIN_WWR/HD/ATF/K/R were used in the test.

Etac's positioning belt and headrest is recommended for transport by vehicle.

Seat widths: From 35 cm to 50 cm.

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

Maximum user weight: 135 kg.

Next with short frame is supplied with rear wheels fitted, while the long frame version does not have rear wheels fitted.

Lifetime: The wheelchair has been tested and meets the following specifications:
prEN ISO/DIS 12183-84.

Etac considers that the test is equivalent to 5-6 years' normal wheelchair use. This means that we estimate the lifetime of a manual wheelchair to be 5 years, assuming normal usage by a single user.

The lifetime of a wheelchair is primarily dependent on the user's specific handicap and care and maintenance of the chair; this means that users will find it varies from the above estimate.

Next

Seat height, front: Adjustable between 44-54 cm with 24" rear wheels
(Seat height with the seat tipped -3° backwards).

Backrest height: Continuously adjustable between 31-45 cm

Height-variable push handles

Quick release hubs

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

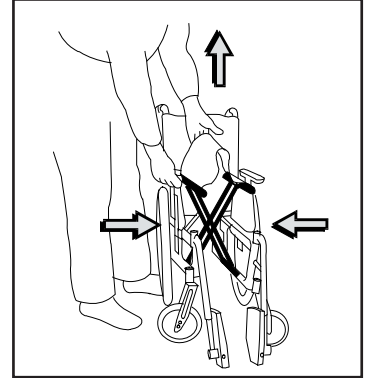
Adjustable = To be adjusted using tools

Variable = To be adjusted without tools

2 HANDLING/TRANSPORT

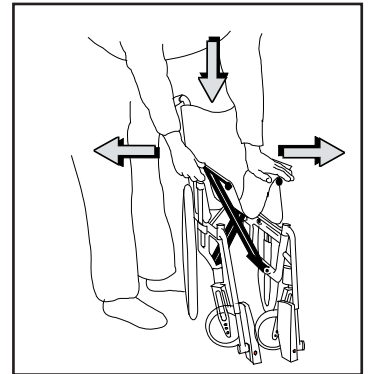
2:1 Folding

Remove, or unsnap, any bow handle/cross-brace.
Flip up the footrests.
Lift the seat upwards.




2:2 Unfolding

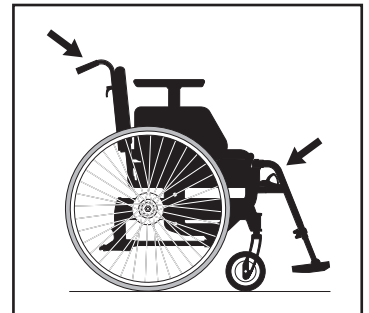
Push one of the seat bars downwards, placing your entire hand on top of the seat.



2:3 Lifting the wheelchair

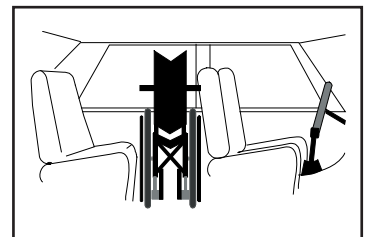
Lift using the push handle and legrest.

 Before lifting, check carefully that the height-variable push handles have been properly secured.



2:4 Transport by car

Car/taxi: The wheelchair should be placed in the boot.
If this is not possible, ensure that it is securely positioned in the back, so that it cannot tip over or roll. Secure the wheelchair, if possible, using the vehicle's seat belts.

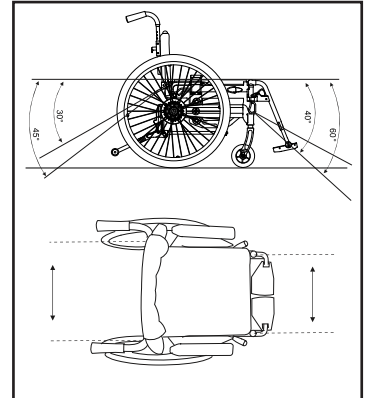


2 HANDLING/TRANSPORT

2:5 Tie down

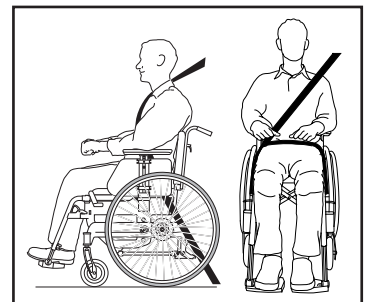
Mini bus or similar:

The wheelchair must be tied down in the set-up as shown in the diagram. The straps must not be drawn through the wheels or round the back tubes.



2:6 Belts

If the wheelchair is to be used as a seat when travelling, Etac recommends that the user utilises the three-point belt fitted in the vehicle. It is essential that this belt be fitted as shown in the pictures.



2:7 General recommendations for travelling by car (!)

(!) Etac recommends that:

- If possible, the user should transfer to a car seat and use the vehicle's three-point belt.
- When travelling by car in a wheelchair, this must be tighed down in a forward-facing position (point 2.5) and in accordance with instructions from the supplier of the restraint device.
- A positioning belt (item no. 25668) and headrest. (item no. 25617-60) are recommended as supplementary accessories.
- The wheelchair's backrest must be level with or above the user's shoulders.
- Apply the parking brake
- Lower the anti-tip stabiliser.

2:8 Warning

- The wheelchair's positioning belt is not sufficient to prevent the user being thrown from the chair in the event of sudden braking.
- The straps must not be drawn through the wheels or round the back tubes.
- Options/accessories, e.g. a tray that can be removed without tools, must be removed and secured/positioned so that they do not fly around inside the vehicle in the event of a collision.
- If a wheelchair has been involved in a collision in a motor vehicle, it should be inspected by the local supplier or by Etac before being used again.

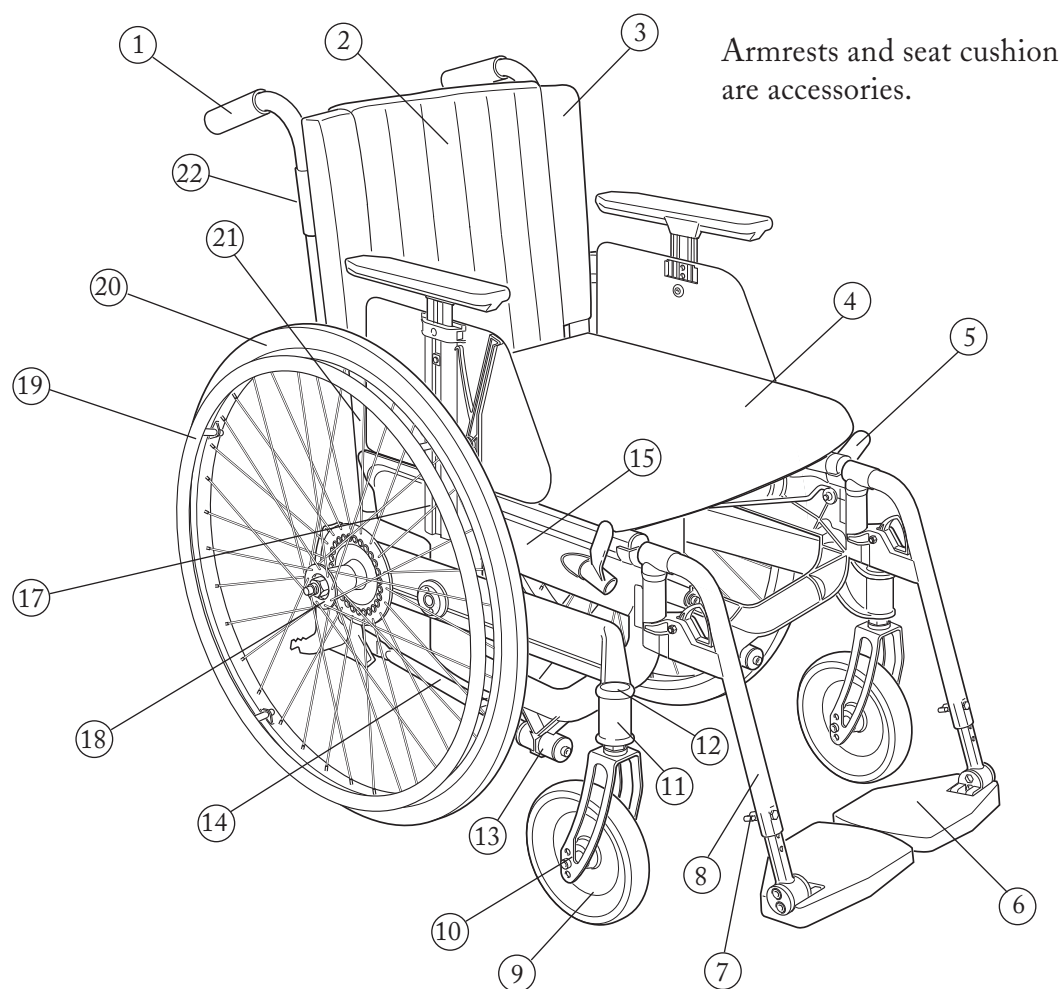
3 PRODUCT DESCRIPTION

Next is designed around a seat unit and a propulsion unit.

A 10 cm seat height adjustment is possible without changing the rear wheels, front forks or castors.

The castors size doesn't affect the seat height and the front fork assemblies never need to be angle-adjusted.

Nor need the brakes to be adjusted when the rear wheel position is changed.

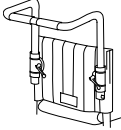

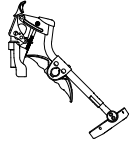
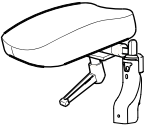
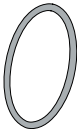

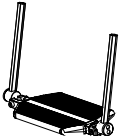


Item	Description	Item	Description
1	Push handle	13	Shock absorber
2	Backrest cover	14	Rod
3	Backrest upholstery	15	Side frame
4	Seat upholstery including cushion	16	Armrest lockable
5	Brake	17	Armrest mounting
6	Footrest	18	Quick release hub
7	Footrest locking knob	19	Handrim
8	Legrest	20	Rear wheel
9	Castor	21	Backrest tube
10	Front fork	22	Pushhandle lock Knob
11	Front fork assembly/block		
12	Cover plug		

4 DESIGN


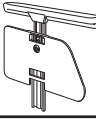
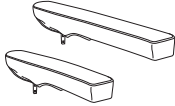
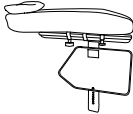


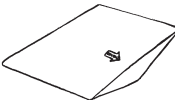
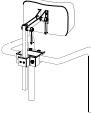
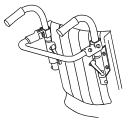

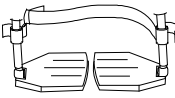
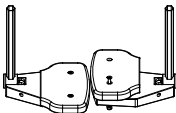
STANDARD MODEL	ALTERNATIVE DESIGN
<p>Seat, height and angle-adjustable</p> <p>Front seat height set at 49 cm Back seat height set at 46 cm Seat height, adjustable by 10 cm without changing rear wheels, fork or castors Seat depth, variable by 6 cm Castors, 150 mm all-round design</p>	<p>Seat, height and angle-adjustable</p> <p>Front seat height 37-55 cm</p> <p>Castors, 125 mm, 175 mm all-round design (175 mm only with 24" rear wheel)</p>
<p>24" rear wheels, quick release hubs</p> <p>1" high-pressure tyres (with inner tube)</p> <p>Handrims Aluminium</p> <p>Camber angle 2°</p>	<p>20" or 22" rear wheels, quick release hubs</p> <p>24": 1" high-pressure tyre, 1 3/8" low-pressure tyre 22": 1 3/8" low-pressure tyre, 1" high-pressure tyre 20": 1 3/8" low-pressure tyre Solid tyres: 20", 22" and 24" Handrims: 22" and 24": stainless steel or plastic-coated Handrims: 20": stainless steel</p>
<p>Backrest, adjustable for height, angle and contour</p> <p>Backrest height, set at 35 cm Backrest angle, set at 0° (=90° between backrest and seat) Variable back upholstery of velour and plush Height variable push handles, detachable</p>	<p>Backrest, adjustable for height, angle and contour</p> <p>Backrest height continuously adjustable between 31-45 cm Backrest angle continuously adjustable between -3°-+9° Bow handle</p>
<p>Legrests - lockable, swing-away detachable</p> <p>Legrests with standard knee angle</p> <p>Footrests, flip up-height variable and adjustable for depth and angle</p>	<p>Legrests - lockable, swing-away detachable</p> <p>Legrests with narrow knee angle Legrest, elevating Amputee legrest, angle and height variable</p> <p>Footrests with extended attachment tube (+10 cm height adjustment)</p> <p>Extended footrests One-piece footrest</p>

7 OPTIONS

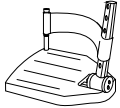
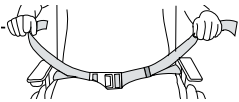

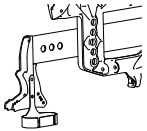
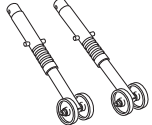
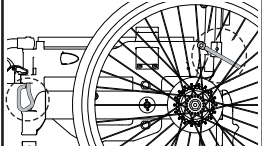

BOW HANDLE variable in height, detachable	
LEGREST with narrow knee angle	
ELEVATING LEGREST with flip up calf support, from 40 cm seat width	
AMPUTEE LEGREST height-adjustable, variable in length and angle	
HANDRIMS stainless steel or plastic-coated	
COMFORT BACKREST COVER	
ONE-PIECE FOOTREST	

Adjustable = To be adjusted using tools
 Variable = To be adjusted without tools.

7 ACCESSORIES

<p>ARMREST lockable, height-adjustable 26 cm long, solid top, black</p>	
<p>ARMREST lockable, height-adjustable 36 cm long, solid top, black</p>	
<p>ARMREST COVER padded or gel, dark grey plush, detachable, 26 or 36 cm long</p>	
<p>ARMREST CUSHION HEMI padded detachable cover of dark-grey plush. To be fitted on long armrests</p>	
<p>TRAY transparent, to be fitted on long armrests</p>	
<p>SEAT CUSHION dark grey plush, black velour, 56 cm long, washable, to be cut appropriate to the seat depth</p>	
<p>COMFORT WEDGE for cushion, levels out the front section of the seat</p>	
<p>HEADREST including attachment, to be mounted on bow handle, variable in height, depth and angle</p>	
<p>CROSS-BRACE with snap-lock</p>	
<p>BACKREST WEDGE length 15 and 30 cm, secured with velcro</p>	
<p>CALF STRAP detachable, black nylon, variable in length</p>	
<p>EXTENDED FOOTREST mounted on existing footrest</p>	

7 ACCESSORIES

<p>HEEL STRAP black, nylon, variable in length</p>	
<p>POSITIONING BELT two-part with snap-lock, attachment points on wheelchair frame</p>	
<p>SPOKEGUARD in grey or yellow. For additional options, see separate sheet.</p>	
<p>WALKING-STICK HOLDER two-part, elastic section fastens around the stick shaft</p>	
<p>ANTI-TIPPERS flip-up, shorter version for low seat height (20" wheel)</p>	
<p>TRANSPORT ATTACHMENT (tie down)</p>	
<p>TOOLKIT 5 mm Allen key, 24 mm ring spanner</p>	

Adjustable = To be adjusted using tools

Variable = To be adjusted without tools.

8 QUICK GUIDE

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

More detailed instructions can be found later on in the manual.

8:1 Seat height

The seat height is adjustable by 10 cm without changing rear wheels, front forks or castors.

Undo the nuts holding each side block.

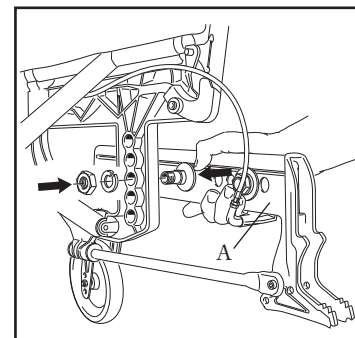
Pull out the block by grasping it in the middle (A).

Select new height position and secure the side blocks.



Tool: 24 mm ring spanner

For further seat height adjustment, see 9.3.



8:2 Seat angle

The seat angle is adjustable using set positions: -5, -3, 0, +3°.

Standard -3°.

Undo both the screws holding each rod (A).

Grasp one of the push handles and move the seat unit upwards/downwards to alter the seat angle.

Select required position and secure the rods.



Tool: 5 mm Allen key

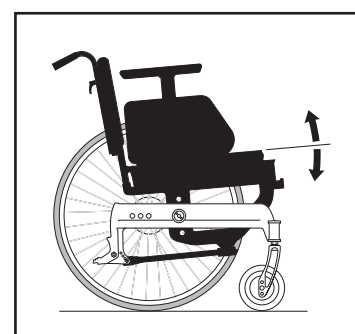
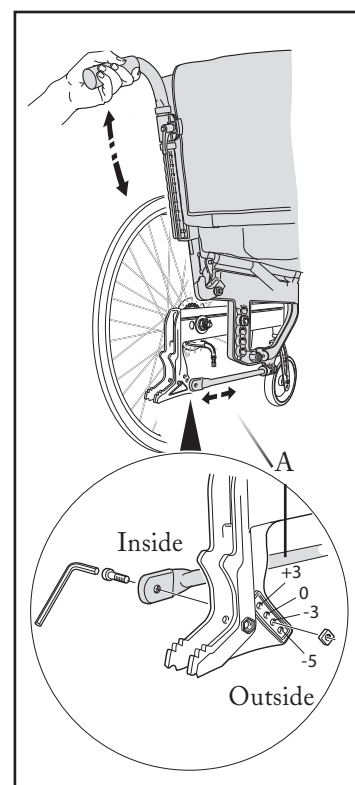
The front seat height changes when the seat angle is adjusted.

Starting with a level seat:

+3° (seat angled forward) gives a 15 mm lower seat at the front edge.

-3° (seat tilted backward) gives a 15 mm higher seat at the front edge.

-5° (seat tilted backward) gives a 30 mm higher seat at the front edge.



8 QUICK GUIDE

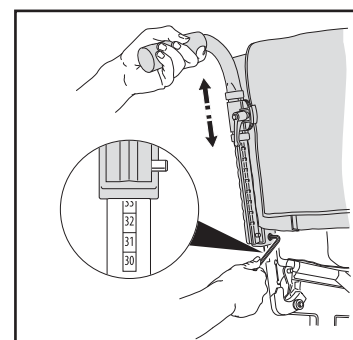
8:3 Backrest height

The backrest height is continuously adjustable from 31 to 45 cm.

Undo the screws on the inside of the backrest tube by 2-3 turns.
Adjust the height by pulling/pushing the backrest upwards/downwards.



Tool: Allen key 5 mm



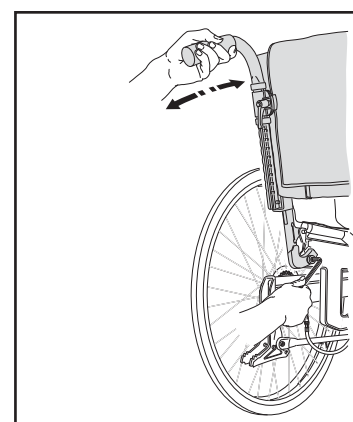
8:4 Backrest angle

The backrest angle is continuously adjustable from -3° to $+9^{\circ}$.

Adjust one backrest tube at a time.
Undo the screw on the inside of the backrest joint.
Adjust to the required angle and tighten.



Tool: Allen key 5 mm



8:5 The rear wheels' balance position

The rear wheels have 3 alternative positions for balance adjustment.

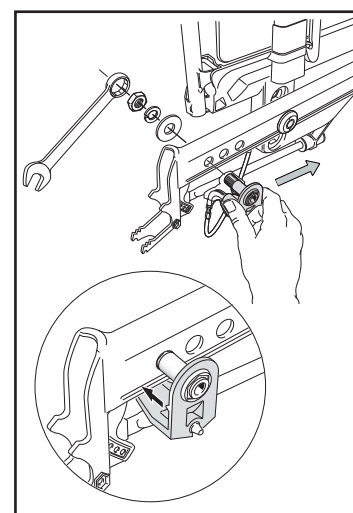
Undo the nuts on the inside of the block. The brake cable can be angled down for better access. Pull out the attachment and select new position. Secure the attachment using washers as shown in diagram.

NB. The lower section of the attachment must fit into the notch on the block.

The brakes need no readjustment.



Tool: 24 mm ring spanner



Many adjustments affect the wheelchair's tendency to tip over. Check if there is a risk of tipping and use the anti-tip stabilisers.

For more detailed instructions and other adjustment options, see chapter 9 onwards.



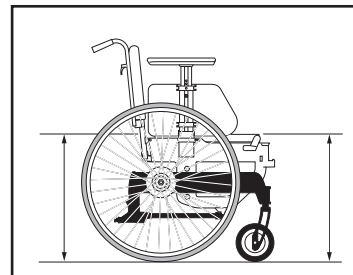
9 SEAT ADJUSTMENTS

9:1 Seat height

The seat height is adjustable by 10 cm without changing rear wheels, front forks or castors.

For further height adjustment, change only rear wheels and front fork.

The castors do not affect seat height, and are selected solely based on area of use.



9:2 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.

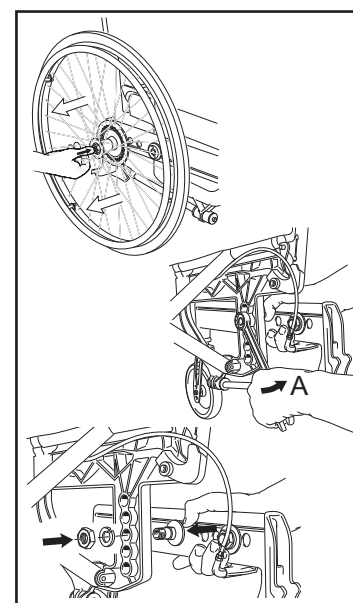
Undo the nuts holding each block.

Pull out the bar by grasping it in the middle (A).

Select new height position and secure the block.



Tool: 24 mm ring spanner



9:3 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 on page 33.

Remove the rear wheels (see point 9.2).

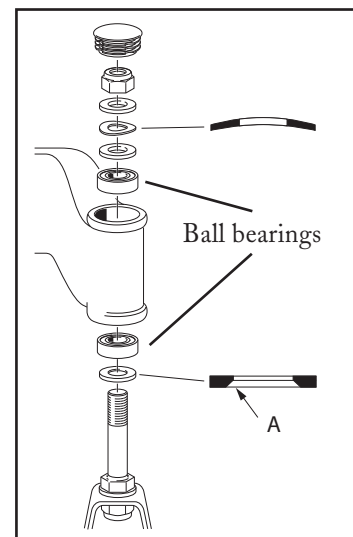
Changing front fork:

Begin by undoing the castors and attaching them to the new forks.

Remove the cover cap from the front fork assembly so that the locking nut is accessible.

Undo it and pull out the front fork. Transfer the washer round the fork shaft to the new fork (the bevelled side (A) against the fork) and insert it into the front fork mounting. It is essential for the washers in the assembly (under the locking nut) to be in the correct order, with the spring washer in the middle.

Tighten the locking nut to its limit. Loosen 1/2-1 turn. This ensures the correct constriction of the spring washer and reduces the risk of the castors wobbling.



Tools: 5 mm Allen key, 19 mm socket spanner




Do not change castors in order to alter the seat height. See point 13.8

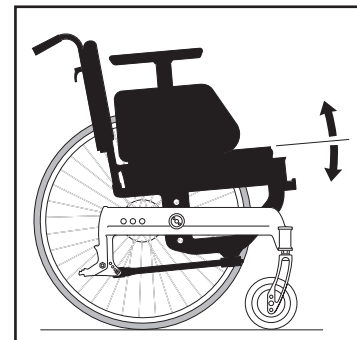
9 SEAT ADJUSTMENTS

9:4 Seat angle

The seat angle setting affects the front seat height.
See "alternative seat angle" on page 33.

The front fork assemblies are fixed and can not be adjusted.

 Do not change castors in order to alter the seat angle!
See point 13.8




9:5 Adjusting seat angle

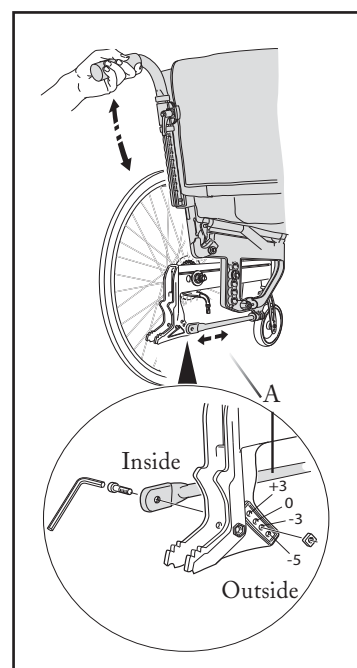
The seat angle is adjustable to set positions: -5, -3, 0, +3 °

Undo both the screws holding each rod (A):
Grasp one of the push handles and move the seat unit upwards/downwards to alter the seat angle.

Select required position and secure the rod. The square nut must be on the outside.

 Tool: 5 mm Allen key

- (!) The seat angle can be adjusted with a person sitting in the wheelchair. However, that person must not lean against the backrest.



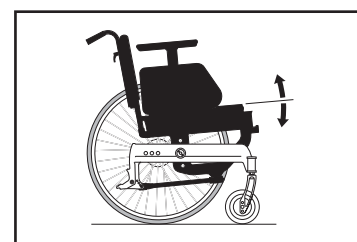
The front seat height changes when the seat angle is adjusted.

Starting with a level seat:

+3° (seat angled forward) gives a 15 mm lower seat at the front edge.

-3° (seat tilted backward) gives a 15 mm higher seat at the front edge.

-5° (seat tilted backward) gives a 30 mm higher seat at the front edge.



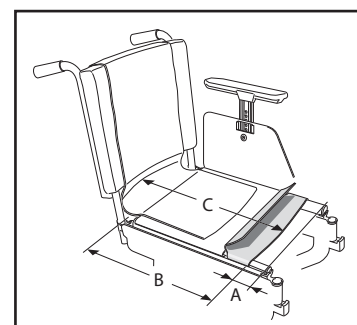
9:6 Adjusting seat depth

The seat depth can be varied 0-6 cm at the front by lifting the front seat upholstery and moving it backwards/forwards (A).

Short frame: 36-42 cm (measured from the backrest tube) (B)

Long frame: 42-48 cm (measured from the backrest tube) (B)

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



10 LEGREST ADJUSTMENTS

10:1 Legrests

The legrests are lockable, detachable and can be swung to the side or in under the seat. They are available in two alternative angle settings: standard and narrow knee angle.

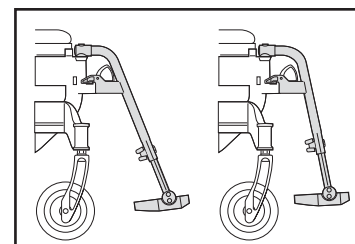
An elevating legrest with calf support is also available.

As an alternative to legrests, an amputee legrest is available.

10:2 Legrests - standard or with narrow angle

With the narrow angle legrests, the feet will be 5 cm nearer the seat than with the standard version.

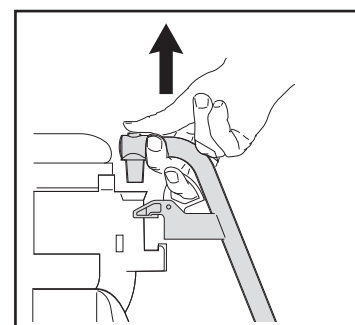
The narrow-angle legrests can be used with both 125 mm and 150 mm castors.



10:3 Legrest, locking

To remove the legrest, push the locking device upwards.

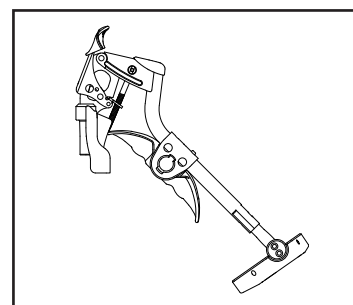
The legrest locks automatically once in the correct position.



10:4 Legrest elevating (option)

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

It comes with instructions for use. The calf support is height-variable and can be folded to the side.



As the elevating legrest is not lockable, it must not be used to lift the wheelchair. Remove the legrests and lift using the frame.

10:5 Amputee legrest (option)

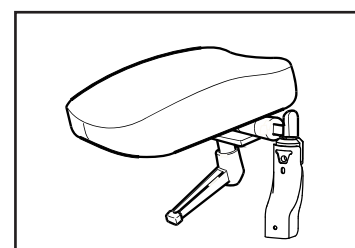
The amputee legrest can be adapted for either the left or right side.

It is height and angle-adjustable and can also be varied forwards and sideways.

Angle and sideways: Using the handle under the plate.

Forwards/backwards: Using the knob under the plate.

Height: Using the screw on the mounting.




Tool: 4 mm Allen key (included)

10 LEGREST ADJUSTMENTS

10:6 Footrests

Next is supplied with flip up footrests that are variable in height and adjustable in angle and depth.

To lower the footrests further than standard, they are available with 10 cm longer attachment tubes.

 For outdoor use, the footrests should have 4-5 cm ground clearance. Never stand on the footrests, risk of tipping!

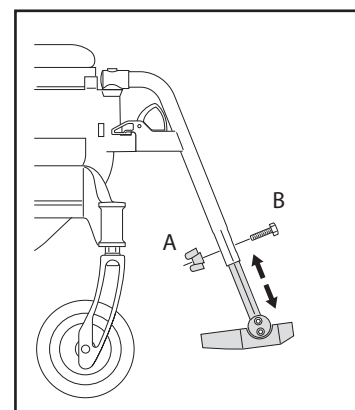
10:7 Footrests - height adjustment

The footrests are variable in height by 2 cm increments.

Undo the wing nut (A) on the legrest. Pull out the screw (B). Adjust the height. Replace screw and nut. Tighten carefully.

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

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



10:8 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 footplate to the required position and tighten the screws.



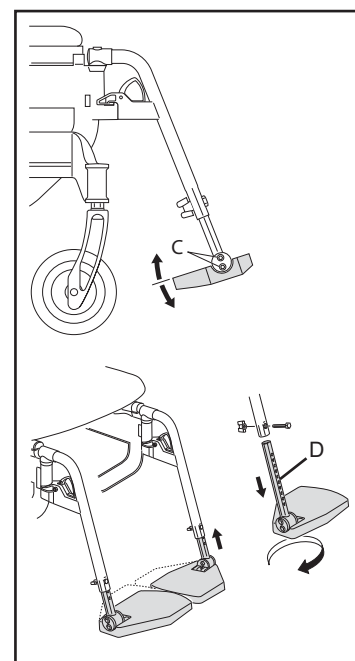
Tool: 5 mm Allen key

Depth: The attachment tube (D) is secured to the footrest 1/3 from front edge.

Switching the right footrest with the left means they extend further forward.

Pull out the footrest and attachment tube, turn it 180° and secure it to the other legrest tube.

Adjust the footrest angle.




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

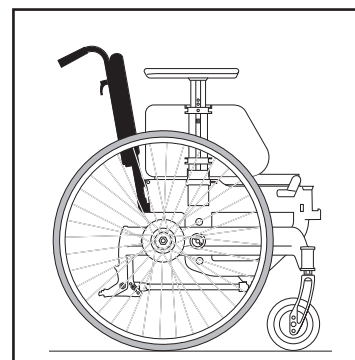
11 BACKREST ADJUSTMENTS

11:1 BACKREST

The backrest is height and angle-adjustable and has variable backrest upholstery.

The push handle is height-adjustable.

 Risk of tipping! Always check the anti-tippers when adjusting the backrest.



11:2 Backrest height

The backrest height is continuously adjustable from 31 to 45 cm.

Undo the screws on the inside of the backrest tube 2-3 turns.

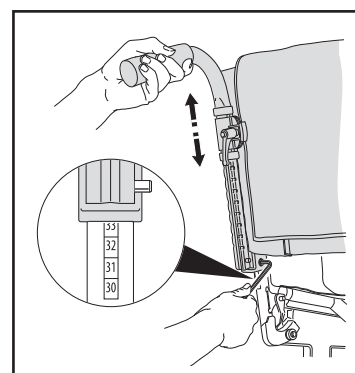
Adjust the height by pulling/pushing the backrest upwards/downwards.

Ensure that both back tubes are adjusted equally by checking the height against the rule on the rear of the backrest tube.

Tighten the screws carefully.



Tool: Allen key 5 mm



11:3 Backrest angle

The backrest angle is continuously adjustable from -3° - $+9^\circ$.


Adjust one backrest tube at a time.

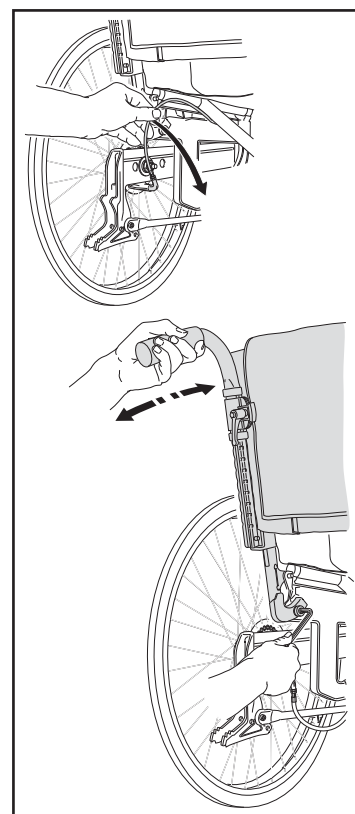
Undo the screw on the inside of the backrest joint. The brake cable can be angled downwards for better access. Set the required angle and tighten.

Adjust the other back tube in the same way.



Tool: Allen key 5 mm

 Risk of tipping! Always check the anti-tippers when altering the backrest angle.



11 BACKREST ADJUSTMENTS

11:4 Backrest upholstery


The shape of the backrest upholstery can be varied separately by means of five Velcro straps and a backrest cover.

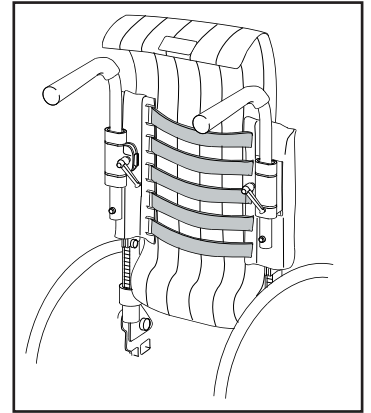
Allow the backrest cover to form a proper space between seat and backrest, so that the user can “sit” against the backrest.

Slacken all the straps and ensure that the user is sitting as far back as possible on the seat.

Tighten the straps, so that they follow the contours of the user's back and provide support for the curve of lower part of the back.

- (!) If the top straps are too taut, this will have a negative effect when unfolding the wheelchair.


 Risk of tipping! Always check the anti-tippers when adjusting the backrest upholstery.

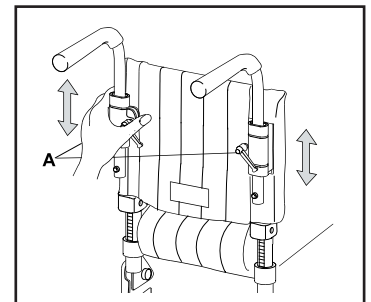


11:5 Push handles, height-adjustable

The push handles are height-variable by 2 cm increments.

Loosen lever (A) and push the plastic washer inwards. Adjust to required height. Ensure that the push handles “snap” into position, tighten the lever.

 Ensure that the lever is properly tightened. This is particularly important when lifting the wheelchair together with the user.




11:6 Bow handle (option)

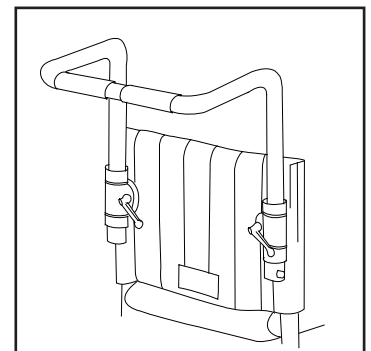
The bow handle is height-variable and detachable.

It can be fitted in the push handle attachments, and its height can be varied using the same method as for the push handles.

A headrest can also be mounted on the bow handle.

 Ensure that the lever is properly tightened. This is particularly important when lifting the wheelchair together with the user.

The bow handle must be removed to enable the wheelchair to be folded.



12 BRAKE - BALANCE POSITION

12:1 Balance setting

The balance setting is affected by the position of the rear wheels, the seat angle, the backrest angle and the user's weight distribution.

The performance of the wheelchair is greatly affected by the balance setting. The more weight there is over the rear wheels, the easier the wheelchair is to manoeuvre.

The more weight there is over the castors, the more difficult the wheelchair is to manoeuvre.

12:2 Rear wheels - balance adjustment

The rear wheels have 3 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 block. 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 block.

The brakes need no readjustment.



Tool: 24 mm ring spanner



Always check the anti-tippers when adjusting the rearwheel balance.

12:3 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.

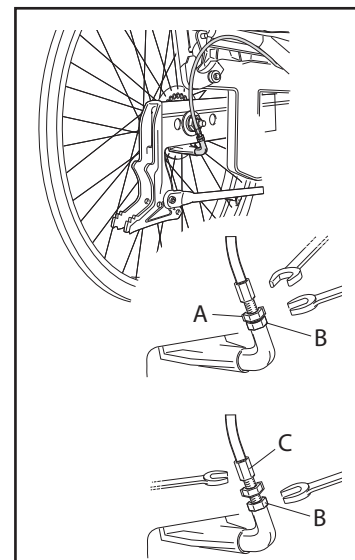
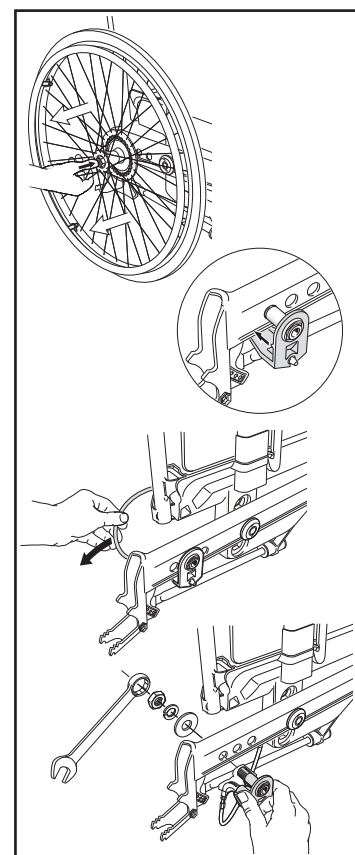
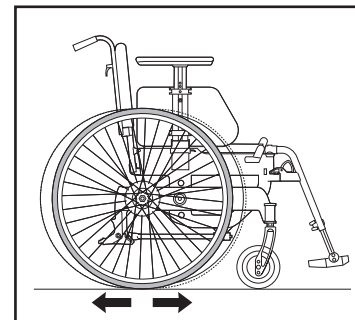
Tighten or loosen the bottom nut, so that the brake pin does not touch the wheel when turning. At the same time keep hold of the hexagonal terminal (C) on the cable housing. Check the function of the brakes.

Screw clockwise: The pin moves in.

Screw anticlockwise: The pin moves out.



Tools: 8 and 10 mm open-end wrench.



13 HANDLING TECHNIQUE, ADJUSTMENTS

13:1 Performance

The weight distribution in the wheelchair is crucial to the performance. It is partly dependent on the user's weight, size and sitting position, and partly dependent on the position of the rear wheels.

The more weight there is over the rear wheels, the easier the wheelchair is to manoeuvre. The more weight there is over the castors, the more difficult the wheelchair is to manoeuvre.

Helper: If the user is left alone in the wheelchair, lock the brakes and ensure that the anti-tippers are lowered.

Parking: Increase the support area of the wheelchair by backing up 10 cm so that the castors face forwards.

13:2 Ascending kerbs, higher thresholds

User, ascending forwards:

This technique is only recommended for experienced wheelchair users.

- Ensure that the anti-tippers are raised.
- Move forward to the kerb/threshold.
- Balance the wheelchair on the rear wheels so that the castors are raised high enough to clear the kerb. Take a firm grip on the handrims while bending the upper body forward.

△ Lower the anti-tippers again.

Helper, ascending forwards:

- Ensure that the anti-tippers are raised.
- Tilt the wheelchair, by using the tilter, so the castors clear the kerb.
- Lift the wheelchair using the push handles to help the rear wheels up.

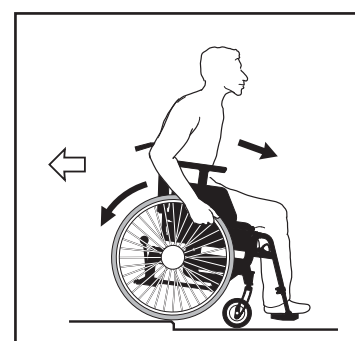
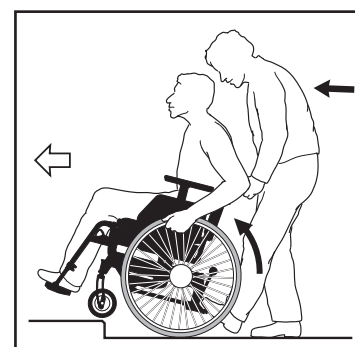
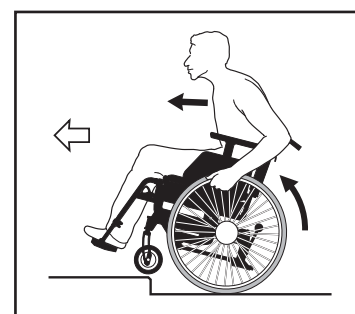
△ Lower the anti-tippers again.

User, ascending backwards:

This technique only works for low kerbs/thresholds, depending on the height setting of the footrests.

- Ensure that the anti-tippers are raised.
- Back up to the kerb/threshold.
- Take a firm grip on the handrims while bending the upper body forward.

△ Lower the anti-tippers again.

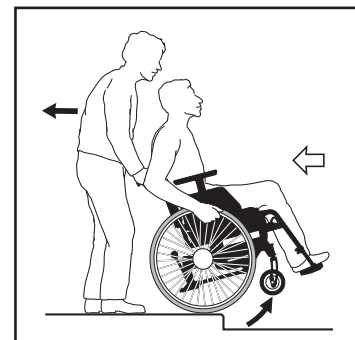


13 HANDLING TECHNIQUE, ADJUSTMENTS

Helper, ascending backwards:

- Ensure that the anti-tippers are raised.
- Back the wheelchair up to the kerb/threshold.
- Tilt the wheelchair, using the tilter, so the castors are in the air.
- Pull the wheelchair up and back so that the castors clear the kerb before the wheelchair “is lowered” onto all four wheels.

△ Lower the anti-tippers again.



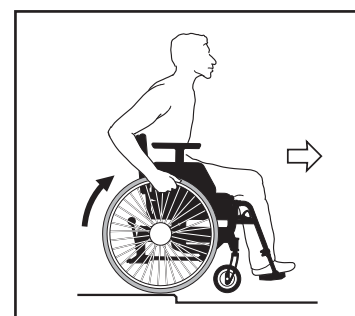
13:3 Descending kerbs

User, descending forwards:

This technique is only recommended for experienced wheelchair users.

- Ensure that the anti-tippers are raised.
- Move forward to the kerb.
- Take a firm grip on the handrims and move “straight forward” so that the chair comes down on all four wheels simultaneously.

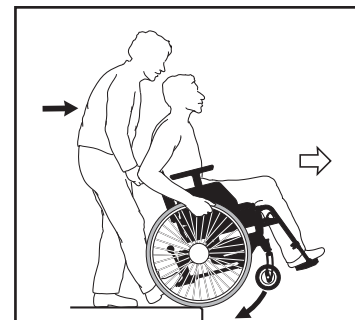
△ Lower the anti-tippers again.



Helper, descending forwards:

- Ensure that the anti-tippers are raised.
- Tilt the wheelchair up, using the tilter, so the castors are in the air.
- Manoeuvre carefully down off the kerb, and “lower” the castors to the ground.

△ Lower the anti-tippers again.

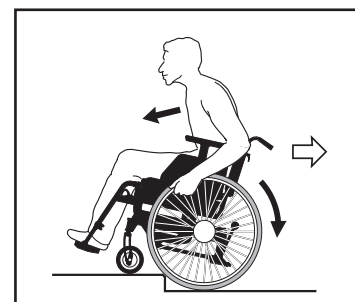


User, descending backwards:

This technique is not recommended for height differences of more than 10 cm.

- Ensure that the anti-tippers are raised.
- Back up to the kerb.
- Back carefully down while leaning forward.

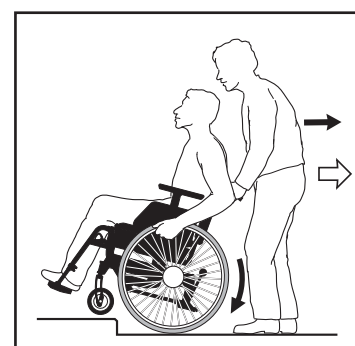
△ There is a great risk of tipping over with this manoeuvre.
Lower the anti-tippers again.



Helper, descending backwards:

- Ensure that the anti-tippers are raised.
- Back the wheelchair up to the kerb.
- Manoeuvre carefully down off the kerb and back the chair up on its rear wheels until the castors have cleared the edge of the kerb.
- “Lower” the wheelchair onto all four wheels.

△ Lower the anti-tippers again.



13 HANDLING TECHNIQUE, ADJUSTMENTS

13:4 Manoeuvring up/down slopes

Here is some important advice to help avoid the risk of tipping when propelling up or down slopes.

- (!) Avoid turning in the middle of a slope.
Always use as direct a route up or down as possible.
Ask for help rather than attempting it by yourself.

Going uphill: Lean your body forward to correct the centre of gravity.

Going downhill: Lean your body against the backrest to correct the centre of gravity. Control your speed using the handrims, not the brakes!

If you need to stop on a slope and lock the brakes, it can feel as if the brake levers have jammed when you try to unlock 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 helper: Push the wheelchair gently forward or brace your weight against it as the brakes are released.

Experienced wheelchair user: “Rock” your upper body as the brakes are released.

13:5 Negotiating stairs, up

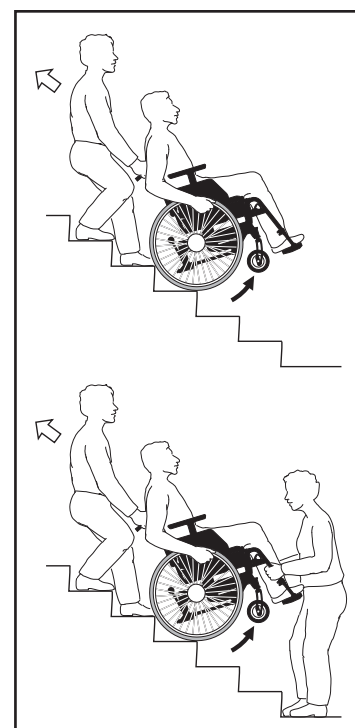
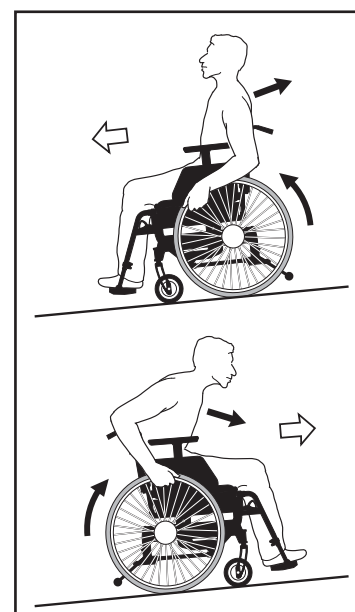
- △ Always ask for help.
- △ Never use an escalator, even with a helper.

With a helper, backwards:

- Raise the anti-tippers and ensure that height-adjustable push handles are properly tightened.
- Back the wheelchair up to the first step.
- Tip the wheelchair up on its rear wheels, using the tilter.
- Pull the wheelchair slowly up one step at a time, keeping it constantly balanced on the rear wheels.
- After the last step, pull the chair backwards so that the castors clear the edge of the step before “lowering” the wheelchair onto all four wheels.

- △ Lower the anti-tippers again.

- (!) If you have two helpers, the second can assist by lifting using the legrests (lockable), or by swinging/removing the legrests and lifting using the frame.
- (!) The helpers should remember to use their leg muscles and not lift with a bent back.



13 HANDLING TECHNIQUE, ADJUSTMENTS

13:6 Negotiating stairs, down

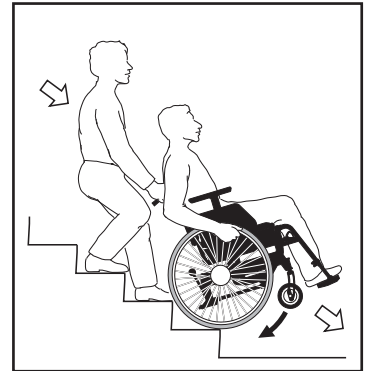
- △ Always ask for help.
- △ Never use an escalator, even with a helper.

With a helper, forwards:

- Raise the anti-tippers.
- Move forward to the first step and tilt the wheelchair up on its rear wheels, possibly using a tilter.
- Descend carefully one step at a time, keeping the wheelchair constantly balanced on the rear wheels.
- After the final step, “lower” the chair onto all four wheels.

- △ Lower the anti-tippers.

- (!) If you have two helpers, the second can assist by lifting using the legrests (lockable), or by swinging/removing the legrests and lifting using the frame.
- (!) The helpers should remember to use their leg muscles and not lift with a bent back.



13:7 Transferring to/from a wheelchair

Technique for transferring must be taught by qualified personell.
Here is some important advice to remember when transferring.

With or without assistance, sideways.

Before transfer:

- Position the wheelchair close to the new seat.
- Back the wheelchair up 5-10 cm before stopping, so that the castors are facing forwards.
- Lock the brakes, remove armrest and legrest on the transfer side.

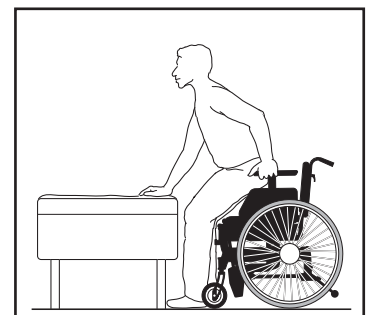
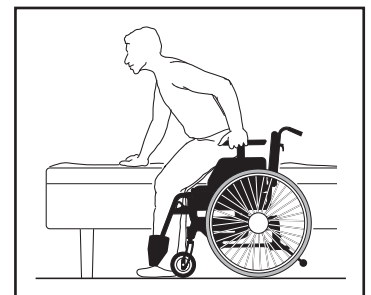
With or without assistance, from the front.

Before transfer:

- Position the wheelchair close to the new seat.
- Back the wheelchair up 5-10 cm so that the castors are facing forwards.
- Lock the brakes and swing the legrests out or in under the seat.

- △ Do not stand on the footrests, risk of tipping!

- (!) The helpers should remember to use their leg muscles and not lift with a bent back.



13 HANDLING TECHNIQUE, ADJUSTMENTS

13:8 Changing castors

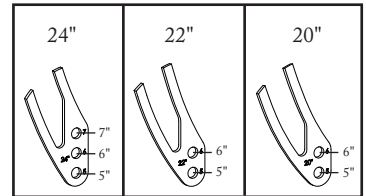
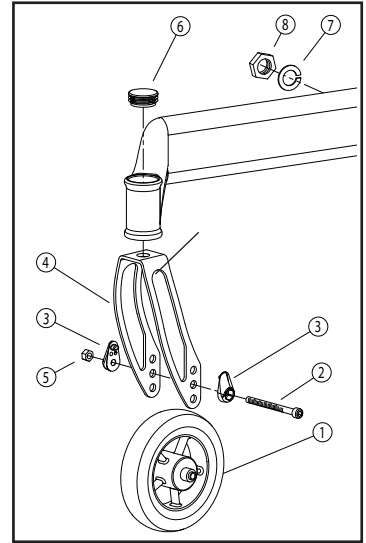
Next can be equipped with 125 mm (5"), 150 mm (6") or 175 mm (7") * castors. Select a size to suit handling technique and environment, not to alter seat height or angle.

* 175 mm (7") only suitable with 24" rear wheels.

Remove existing castors by unfastening screw and nut.
Move the plastic components to the hole on the fork where the new castor is to be mounted. Secure the new castor.
Each rear wheel size has a specific accompanying fork size. See table on page 33.






Tool: 5 mm Allen key



13:9 Handrims

Next is supplied with aluminium handrims as standard.
Material and distance between rear wheel and handrim affect the user's ability to grip the handrim.

Stainless steel and plastic-coated are available as options.

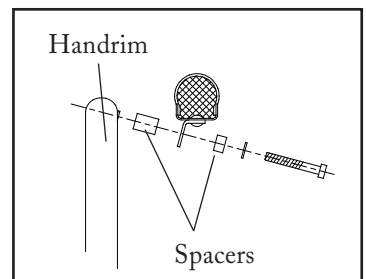
-  The plastic-coated handrims offer a better grip, but increase friction at the same time. Slight friction burns (e.g. blisters) can occur in the event of sudden braking.
-  There is a risk of trapped fingers when passing through narrow passages, or if the fingers get between the spokes.
-  If there is a risk of the user getting their fingers caught in the spokes, we recommend spokeguards.

13:10 Adjusting handrim distance

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



Tool: 4 mm Allen key.




14 ASSEMBLY INSTRUCTIONS - ACCESSORIES

All accessories supplied by Etac come with assembly instructions.
The instructions are also available on our website: www.etac.se

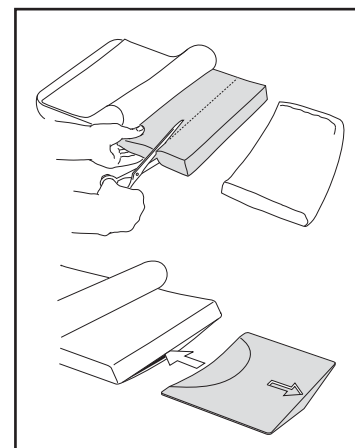
14:1 Seat cushion and comfort wedge

The cushion supplied, is 56 cm long. It should be cut to suit the desired seat depth at front or back edge. Ensure that the cushion is placed properly between the backrest tubes, with the rounded corners at the back, when the length is measured.

 The cushion is of a standard type and not intended for users with pressure sores.

The cushion can be supplemented by a comfort wedge. This levels out the seat at the front edge, considerably improving comfort when seated.

Place the comfort wedge in the cushion cover's inner pocket on the underside of the cushion. The arrow on the comfort wedge should be upwards and pointing towards the front of the cushion.



14:2 Armrest, lockable and detachable, height adjustment

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

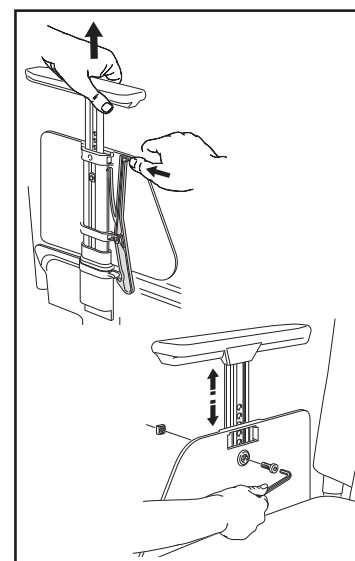
Height adjustment: The screw/nut determines the height of the armrest and secures the side plate:

- Undo screw and nut.
- Move the side plate up or down to the required height.
- Secure the side plate again.



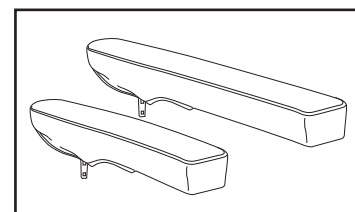
Tool: 5 mm Allen key.

 Do not lift the wheelchair using the armrests.



14:3 Upholstered cover, armrests

The armrests can either be supplemented by or supplied complete with an upholstered or gel cover. These are manufactured from dark-grey plush and are washable.



(!) The cover increases the height of the armrest by 1.5 - 2 cm.

14 ASSEMBLY INSTRUCTIONS - ACCESSORIES

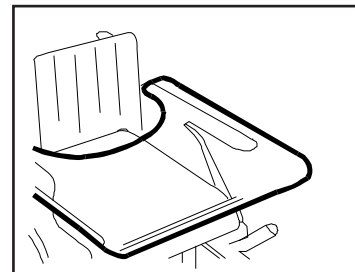
14:4 Tray

The tray is made of polycarbonate, shaped to fit close to the body. There are various sizes to suit wheelchair width. Attached to long armrests using Velcro straps.

The height can be adjusted using the armrests' height adjustment function.



Tool: 5 mm Allen key (to adjust the armrest height)



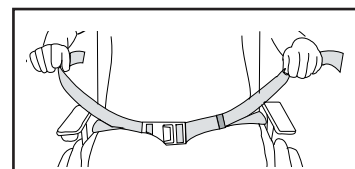
14:5 Positioning belt

The positioning belt is in two parts, variable in length and has a snap-lock. It can be fitted to the backrest joints

- (!) Check that the user does not slide forward on the seat so that the belt restricts the blood supply in the hip/waist region.



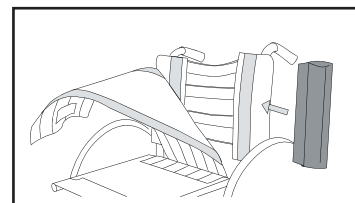
The positioning belt is used solely for positioning in the wheelchair. Seatbelts must still be used when travelling by car.



14:6 Backrest comfort wedge

Backrest comfort wedges are available in two lengths: 15 cm and 30 cm. They are secured with Velcro between the backrest upholstery and the backrest cover at the required height.

These wedges increase comfort, and also stability, for the upper body.



14 ASSEMBLY INSTRUCTIONS - ACCESSORIES

14:7 Anti-tippers flip up, assembly

The anti-tippers are mounted on the tilters. To raise them, pull the sleeve around the tilter downwards while folding it upwards. Ensure that the anti-tippers “click into position”, when extended or folded.

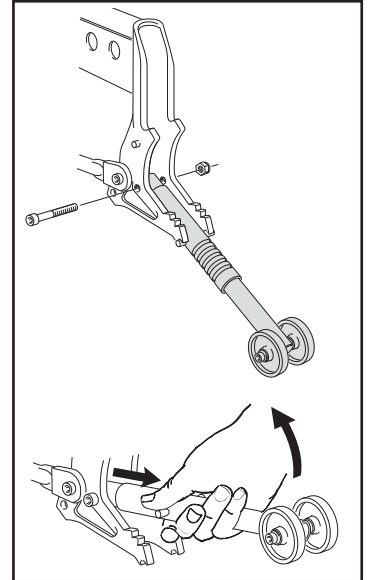
Special anti-tippers are required with 20" rear wheels.



Tool: 5 mm Allen key



When adjusting seat height, balance position or backrest angle, the anti-tippers function must always be checked.

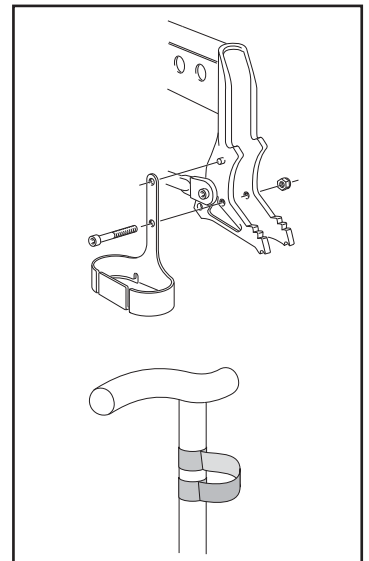


14:8 Walking-stick holder, assembly

- Mount the holder onto the tilter using the accompanying screws/nuts.
- The elastic strap is passed twice round the stick (see diagram), forming a loop. The ferrule may have to be removed to attach the elastic strap.
- Place the stick in the holder and thread the elastic strap loop over the push handle.



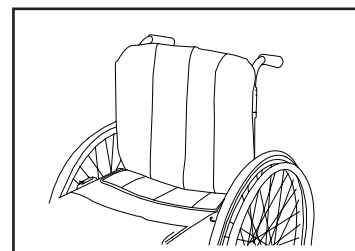
Tool: 5 mm Allen key.



14 ASSEMBLY INSTRUCTIONS - ACCESSORIES

14:9 Comfort cover

The comfort cover improves the backrest padding and is used instead of a standard backrest cover.



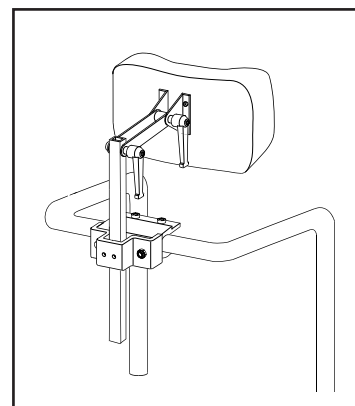
14:10 Headrest

The headrest, is mounted on the bow handle (options, see point 11.6). It is variable in height, depth and angle, and detachable.

- (!) Before adjusting the headrest, check that the user has a good sitting position and is securely seated.

⚠ The headrest, is designed only as a wheelchair accessory, and does not fulfil the requirements set for headrest, when travelling by car.

⚠ Check the balance of the wheelchair when the user leans his/her head against the headrest. Use of anti-tippers is recommended.

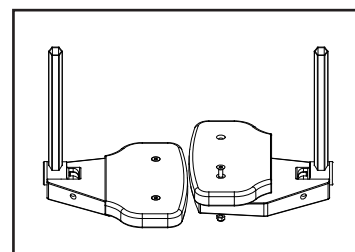


14:11 Extended footrest

Extended footrests are mounted on existing footrests. Hole indications for the screws can be found on the underside of the footrest. Make the hole by carefully tapping the screw through the footrest using a hammer or similar.



Tool: 3 mm Allen key



14:12 Heel strap

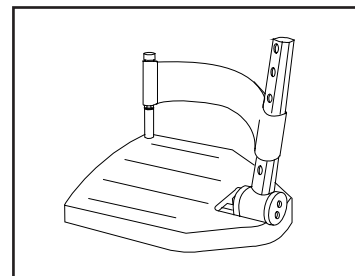
The heel strap is fitted on flip up footrests and is variable in length.

Hole indications for the screws can be found on the underside of the footrest. The front or back “corner” can be used. Make the hole by carefully tapping the screw through the footrest using a hammer or similar.



Tool: 10 mm spanner.

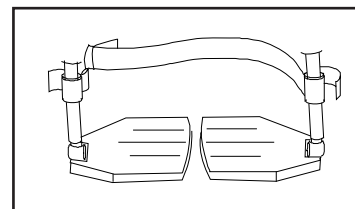
- (!) Adjust the length so that the feet rest in the centre of the footrest, and do not touch the castors.




14 ASSEMBLY INSTRUCTIONS - ACCESSORIES

14:13 Calf strap

The calf strap is in two parts and can be unfastened when the legrests need to be swung to the side. The length can be varied. It can be fitted around the legrests at any height using velcro .

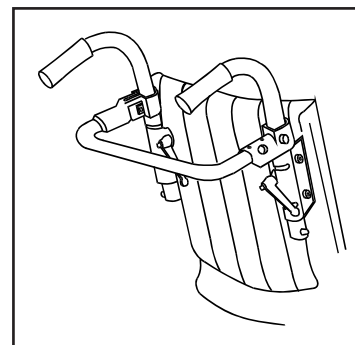



- (!) Adjust the length so that the feet rest in the centre of the footrest, and do not touch the castors.

 Before any transfer from the front, unfasten the calf strap and flip up the footrests.

14:14 Cross-brace, backrest

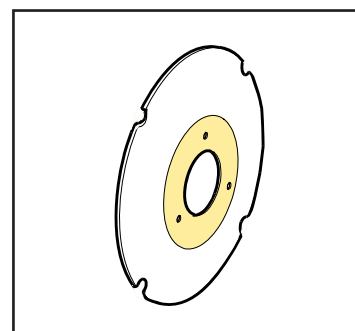
The backrest can be supplemented by a cross-brace for extra stability. We would recommend this for high and/or rear-leaning backrests. The cross-brace is attached to the push handles, and can be easily uncoupled thanks to a snap-lock.



 The cross-brace must be uncoupled to enable the wheelchair to be folded.

14:15 Spoke guards

Spoke guards prevent fingers getting caught in the spokes and provide some protection against mud splashes. They are available in three sizes to fit the size of the rear wheel. Can be mounted without tools using the accompanying plastic components.



15 CARE AND MAINTENANCE

Upholstery

The upholstery is manufactured from two-layer polyester fabric. The seat upholstery is fixed in longitudinal notches in the seat tubes. The upholstery can easily be removed from the side frame by unscrewing the end plugs.

To remove the backrest upholstery, unscrew the push handle attachment. Then pull the upholstery upwards.

The seat and back upholstery can be machine-washed at 40°C.

Rear wheels/castors

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

Spokes: Loose spokes can cause wheels to wobble. Contact your dealer, if spoke adjustment is required.

Wheel axles: Clean hair and dirt off wheel axles when necessary.

Ball bearings: Maintenance-free.

Handrims: If a handrim has a scratch that may cause injury to the hand when propelling the chair, it must be replaced.

Brakes

The function of the brakes is not affected by the tyre pressure. Heavy soiling may have a negative effect on the brake mechanism. Check brake function once a month.

If adjustment is required, see point 12.3.

Washing the frame

It is important, for both your own comfort and the durability of the chair, to keep the frame clean.

Wash the chair with car shampoo or washing up liquid. To avoid accumulation of water, Next is equipped with drainage holes. For heavy soiling, degreasing agent can be used.

Other

If there are any problems with your wheelchair, contact your supplier. Defective wheelchairs must not be used. When reconditioning or replacing parts, original parts from Etac should be used or components of an equivalent quality, as specified in exploded drawing.

If other parts are used, Etac bears no responsibility for function or safety.

(!) If necessary, lubricate moving parts/joints with cycle oil or similar.

15 CARE AND MAINTENANCE

TROUBLESHOOTING TABLE

Problem*	Action
The wheelchair is pulling to one side	<ul style="list-style-type: none"> - Pump up the tyres - The rear wheel mountings are incorrectly fitted - The user's weight is not evenly distributed in the wheelchair
The wheelchair is difficult to manoeuvre	<ul style="list-style-type: none"> - Pump up the tyres - The rear wheel mountings are incorrectly fitted - Clean any hair and dirt from the castor axles - Too much weight over the castors; adjust the chair's balance position
The wheelchair is "heavy" to turn	<ul style="list-style-type: none"> - Pump up the tyres - Clean any dirt from the castor axles - Too much weight over the castors; adjust the chair's balance position
The brakes are not effective	<ul style="list-style-type: none"> - Adjust the cable length (see point 12.3)
The rear wheels are "loose"	<ul style="list-style-type: none"> - Adjust the hub axle length
The rear wheels are difficult to fit/remove	<ul style="list-style-type: none"> - Lubricate and clean the quick release hubs with cycle oil or similar - Adjust the hub axle length
The castors "wobble"	<ul style="list-style-type: none"> - The front forks have not been tightened sufficiently - Too much weight over the castors; adjust the chair's balance position
The wheelchair is difficult to fold/unfold	<ul style="list-style-type: none"> - The back upholstery is too taut - Lubricate and clean the cross elements under the seat
The wheelchair feels "unsteady"	<ul style="list-style-type: none"> - Pump up the tyres - Check that screws and controls are properly tightened

(!) If necessary, lubricate moving parts/joints with cycle oil or similar.

* Users may encounter several of these problems as a result of an incorrectly adjusted wheelchair, and/or incorrect propulsion technique.

16 TESTS AND WARRANTIES

Next	has been tested and approved for indoor/outdoor use, and is CE marked. Maximum user weight is 135 kg.
The Swedish Handicap Institute	undertakes both functional and technical testing. The testing methods are adapted to ISO standard specifications, standard 7176.
CE marking:	<p>The product has undergone collectively stipulated evaluations and tests in accordance with product-group-specific European standards.</p> <p>A certificate verifying that the product meets national and EU MDD (Medical Device Directive) requirements.</p> <p>Enables customers to select the right product based on comparable test data.</p>
Warranty:	<p>Frame: 5 years against material and/or assembly defects.</p> <p>Backrest, arm/footrest: 1 year against material and/or assembly defects.</p> <p>Upholstery, tyres, spokes: No warranty.</p>
Special adaptations:	<p>covers everything that falls outside the scope of the manual's instructions and adjustments. Wheelchairs specially adapted by customers may not retain Etac's CE marking.</p> <p>Etac's warranty ceases to be valid. In the event of uncertainty regarding implementation of any adaptation, please consult Etac.</p>

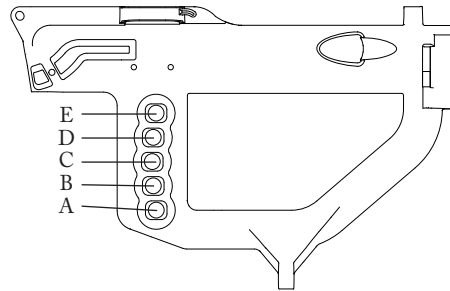
17 ALTERNATIVE SEAT HEIGHTS/ANGLES

Adjust seat height and angle according to points 9:2 - 9:5.

The castors should not be replaced in order to alter the seat height or angle; select solely to suit handling technique and environment.

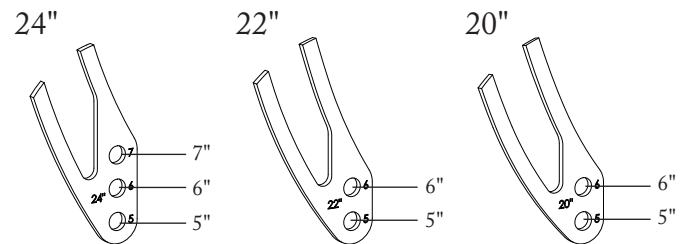
Seat height with the seat tipped -3° backwards.

	24"	22"	20"
E	44,0 cm	42,0 cm	40,0 cm
D	46,5 cm	44,5 cm	42,5 cm
C	49,0 cm	47,0 cm	45,0 cm
B	51,5 cm	49,5 cm	47,5 cm
A	54,0 cm	52,0 cm	50,0 cm



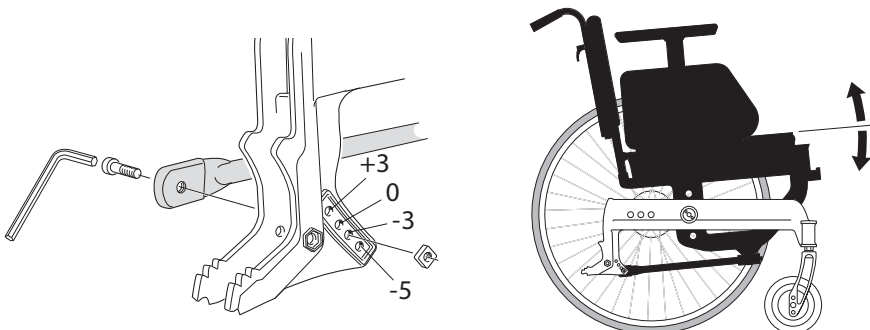
Dimensions and tolerance +/- 1 cm.

Fork	Castor		
 24"	7"=175x45mm	6"= 150x30mm	5"= 125x30mm
 22"	-----	6"= 150x30mm	5"= 125x30mm
 20"	-----	6"= 150x30mm	5"= 125x30mm



Note the position in which each castor should be fitted. Incorrect fitting has a negative effect on the handling characteristics, as the front fork mountings are not adjusted on Next.

Alternative seat angles



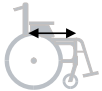
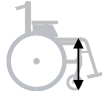
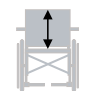

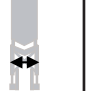



The front seat height changes when the seat angle is adjusted.

Starting with a level seat:

- +3° (seat angled forward) gives a 15 mm lower seat at the front edge.
- 3° (seat tilted backward) gives a 15 mm higher seat at the front edge.
- 5° (seat tilted backward) gives a 30 mm higher seat at the front edge.

18 WEIGHT AND DIMENSIONS, STANDARD DESIGN

Chair size	Item no.	Seat depth from back tube	Seat height	Backrest height	Total width	Transport width	Weight, including rear wheels, legrest, anti-tippers, height-variable push handles
							
35 cm short	13200101	36-42 cm	44-54 cm	31-45 cm	54.5 cm	23 cm	15.95 kg
35 cm long	13200102	42-48 cm	44-54 cm	31-45 cm	54.5 cm	23 cm	16.25 kg
37.5 cm short	13200103	36-42 cm	44-54 cm	31-45 cm	57.0 cm	23 cm	16.0 kg
37.5 cm long	13200104	42-48 cm	44-54 cm	31-45 cm	57.0 cm	23 cm	16.3 kg
40 cm short	13200105	36-42 cm	44-54 cm	31-45 cm	59.5 cm	23 cm	16.1 kg
40 cm long	13200106	42-48 cm	44-54 cm	31-45 cm	59.5 cm	23 cm	16.4 kg
42.5 cm short	13200107	36-42 cm	44-54 cm	31-45 cm	62.0 cm	23 cm	16.2 kg
42.5 cm long	13200108	42-48 cm	44-54 cm	31-45 cm	62.0 cm	23 cm	16.5 kg
45 cm short	13200109	36-42 cm	44-54 cm	31-45 cm	64.5 cm	23 cm	16.25 kg
45 cm long	13200110	42-48 cm	44-54 cm	31-45 cm	64.5 cm	23 cm	16.55 kg
47.5 cm short	13200111	36-42 cm	44-54 cm	31-45 cm	67.0 cm	23 cm	16.3 kg
47.5 cm long	13200112	42-48 cm	44-54 cm	31-45 cm	67.0 cm	23 cm	16.6 kg
50 cm short	13200113	36-42 cm	44-54 cm	31-45 cm	69.5 cm	23 cm	16.4 kg
50 cm long	13200114	42-48 cm	44-54 cm	31-45 cm	69.5 cm	23 cm	16.7 kg

Next: Dimensions and weights apply to chairs with 24" rear wheels/aluminium handrims, front measured with the seat tipped -3 degrees backwards, legrests, anti-tippers, height-variable push handles.