

Netti III XHD

ALU_REHAB

Thinking ahead - moving forward

C E This product conforms to 93/42/EEC for medical products.

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1. INTRODUCTION

Netti III XHD is a comfort wheelchair meant for both indoor and outdoor use.

In Alu Rehab we believe that wheelchairs should be chosen based on a thorough assessment focusing on the needs of the user and demands from the environment. Therefore it is important to know about the possibilities and restrictions of the wheelchair. Netti III XHD is a wheelchair designed for users with the need for comfort and relief. The combination between the seating system and the ergonomical solutions in the frame construction, offers many possibilities for adaptation and adjustments.

The wheelchair is constructed for indoor and outdoor use, and offers the possibility to vary the sitting position from activity to rest using tilt and recline functions.

Max user weight: 200 kg.

- ♠ When mounting accessories such as power kit etc, the weight of the accessories must be subtracted from the max user weight.
- Specifications varies between countries.

1.1 Areas of use/indications for Netti III XHD

Netti III XHD is a multi-function wheelchair for partially or fully immobile persons with physical and/or mental disabilities. These disabilities may have multiple causes. Netti III XHD has an adjustable seat and back angle, thus facilitating for the user change of position, mobilisation or posture correction (stabilisation), wherever the following functional impediments with their multiple possible causes are present:

- limited or lacking mobility
- limited or lacking muscle power
- limited movement range
- lacking or limited trunk and body stability
- hemiplegia
- rheumatic-type disorders
- · craniocerebral injuries
- amputations
- other neurological or geriatric disorders.

1.2 Quality and durability

The disability of the user as well as the level of maintenance done foremost decides the durability of the wheelchair. Thus, the durability will vary depending on these two factors.

1.3 The environment and waste disposal

Alu Rehab and its suppliers wish to protect the environment.

This means:

- That we avoid using environmentally harmful substances and processes to the greatest extent possible.
- That Alu Rehab's products are ensured a long service life and a high degree of flexibility - to benefit the environment and economy.
- That all packaging can be recycled.
- That the wheelchair was designed to be separated into its component materials - to make recycling easier.
- Contact your local recycling agent to get correct information how to handle in you area.

1.4 Information for re-use

All products from Alu Rehab are designed to give years of maintenance-free service. All products can be adapted for re-use by an authorised dealer. In order to guarantee performance and safety, Alu Rehab recommends the following tests prior to any re-use.

Please examine the following components for function, integrity etc and replace parts if necessary:

- · Wheels (tyre tread)
- Wheelchair frame
- Cushions
- Hubs
- Brake function
- · Directional stability of wheels
- Bearings and front castors

Please also note the contents of Section 9.2 Cleaning and care

Anti-tip

Correctly fitted, the anti-tip will secure the chair from tipping backwards. We strongly recommend use of the anti-tips.

1.5 About this manual

In order to avoid damages while using the Netti III XHD wheelchair, please read this manual carefully before starting to use the chair.

- Symbol of forbidden actions.

 No warranty can be claimed whenever these actions are implemented.
- Symbol of warning.
 Whenever this symbol is used,
 caution has to be taken.
- Symbol for important information.
- Symbol for useful tips.
- Symbol for tools.

1.6 Vital measures

Netti III XHD is a comfort wheelchair designed for both outdoor and indoor use.



O Specifications varies between countries.

Total weight: 35 Kg (450 mm width chair)

Seat width:



500, 550, 600, 650, 700, 750 mm

Seat depth:



(From back rest cushion to front of seat plate)

400, 425, 450, 475, 500 mm

Seat height:



(From floor to top seat plate using 24" main wheels in upper hole position).

450 mm*

*By changing position of main wheels, it is possible to achieve seat height of 480 mm. Specification min. max. Overall length with foot 1000 mm support Overall width 790 mm Folded length 760 mm Folded width 710 mm Folded height 510 mm Total mass 36,2 kg Mass heaviest part 3,8 kg Static stability uphill N٥ 150 -90 Seat plane angle 160 Effective seat depth 500 mm 400 mm Effective seat width 460 mm 710 mm Seat surface height at front 450 mm 480 mm Backrest angle 860 133° Backrest height 480 mm Foot support to seat 280 mm 770 mm distance 105° 182° Leg to seat surface angle Arm support to seat 185 mm 325 mm distance Front location of arm 295 mm 455 mm support structure Push rim diameter 525 mm Horizontal axle location -10 mm 95 mm

Model width: 50 cm.

Measured without cushions.

Backrest height:



480 mm*

^{*} Using back rest extender gives 600 mm

2 QUICK REFERENCE

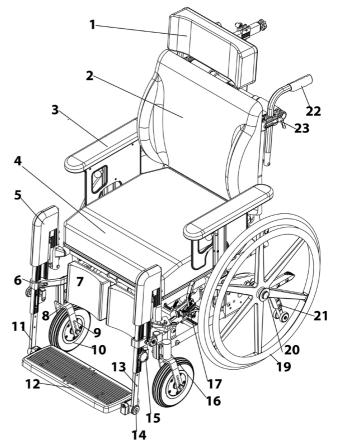
The content of this page is a summary of the whole manual. It gives you a brief introduction to the use and care of the Netti III XHD wheelchair.

- The quick reference is not a replacement for the manual, only a reminder/check list.
- Unpack the wheelchair (Chapter 6.1)
- Mount the main wheels (Chapter 6.2)
- Mount the front castors (Chapter 6.4)
- Put the back rest back, and mount the recline gas strut to the back rest using the locking bolt. (Chapter 6.7)
- Mount the arm supports (Chapter 6.11)
- Mount the cushions (Chapter 6.12)
- Mount the foot supports (Chapter 6.14)
- Adjust the push handles (Chapter 6.16)
- Mount the head support (Chapter 6.15)
- Mount accessory. (See chapter 5. for more information. Mounting descriptions will accompany the accessory.).
- For troubleshooting, see chapter 8. For adjustment see chapter 6.

- ▲ Drive carefully!
- ▲ Be aware that friction against push rims can create a warm surface.
- ▲ Salt water can increase risk of corrosion. Further precautions related to environmental conditions not needed.
- When the chair is tilted rearwards, the anti tips and brakes should always be in use.
- A Be sure to lock all handles properly.
- The anti-tips should always be used for the safety of the user.
- Surface temperature of metal parts in frame structure might increase when exposed to direct sunlight.
- A Never stand on the foot supports due to risk of tipping forwards.
- A Never lift the wheelchair by the foot supports or arm supports.
- Product configuration may vary between different countries.
- For visually impaired people, manuals and catalogues can be downloaded at www.alurehab.com
- If in doubt contact your dealer!

3. DESCRIPTION*

- 1. Head support
- 2. Back rest cushion
- 3. Arm support with pad
- 4. Seat cushion
- 5. Knee pad
- 6. Calf support bracket
- 7. Calf support
- 8. Quick release for front fork
- 9. Front fork
- 10. Front castors
- 11. Foot support
- 12. Foot plate
- 13. Height adjustment screw
- Locking bolt for foot plates
- 15. Angle adjustment screw
- 16. Front fork fastening
- 17. Brake
- 19. Main wheel with push rim
- 20. Quick release axle
- 21. Anti tip
- 22. Push handle
- 23. Release handle for push handles



If any of these parts are missing, please contact your dealer.

For complete information, please contact your dealer.

^{*} Be aware that specifications may vary between countries.

4. FEATURES OF NETTI XIII HD

Standard

Seat

- Cushions with good preasure distribution properties
- •Tilt -11° to +14°
- Adjustable height 40 cm to 48,5 cm
- Adjustable depth of 10 cm

Wheels*

- 24" x 1 3/8", main wheels with drumbrake, punture proof with quick release axle
- Push rim: Aluminium
- Front castors 7" wide. Puncture proof with quick release axlel

Back rest

- Angle: 88° 130°
- · Height: 50 cm
- The back rest cushion has integrated lumbar support and it can be adjusted in height.
- Height adjustable and removeable push handles.

Foot support

- Angle adjustable foot support
- Height- and angle adjustable foot plates

Arm support

- · Height adjustable and removeable
- Depth adjustable pads

Head support

- · Height, depth and angle adjustable
- Removeable

Accessories/Options

Seat

- Trays & reading stand for trays (See chapter 5)
- Hip belts and 4 point belts (See chapter 5)

Wheels

• Spoke protectors (See chapter 5)

Back rest

- Back rest extender (See chapter 5)
- Lumbar support and Wedge (See chapter 5)
- Different back rest cushions

Foot support

- Amputation support (See chapter 5)
- Knee and thigh support (See chapter 5)

Arm support

- Different pads (See chapter 5)
- Hemi armrest and Hemi cushion (See chapter 5)

Head support

• Different models (See chapter 5)

5. ACCESSORIES

Belts

Several models: Hip belts and H-Belt with or without upholstery and with plastic or car lock (See chap. 5.1 and 5.2 for mounting.



Wedge Increases side support



H-Belt attachment bar To be mounted onto the push handles. Comes in two sizes with telescopic



Lumbar support Increases lumbar curvature



bar. (See chapter 5.2)



Brake extenders 90 mm 120 mm 250 mm



Trays 3 models: Swingable, lockable and standard "push on" models



Vital Base Integral Pelvic stabilizer



Reading stand



Seat Cushions Many to choose from. Please contact your dealer



Upholstery for tray Offers a soft base for the arm resting on the tray.



Back rest Cushions Many to choose from. Please contact your dealer



Half tray Swingable upholstered half tray. The tray replaces the existing standard armrest.



Spoke protectors For 20", 22" and 24". Black or transparent is optional.



Foot box Upholstered



Head cushion Comfort Cushion with Kospoflex filling to pull onto head rest



Foot supports:

Amputations support



Back rest extender 12 cm extender To be used together with 60 cm back rest cushion



Knee/Thigh support The support reduces adduction



Arm support pads Wide: 415 x 80 mm Long: 445 x 70 mm Long/Wide: 525 x 60 mm Short: 333 x 58 mm



Abduction block The block reduces abductions: Small: 80 mm width Medium:120 mm width



Hemi arm support Offer extra support for the affected arm. Can be set in fixed positions

Standard, 38 x 58 mm

Arm support pad bended



Head supports Support C Large Support A Side support Support B Small



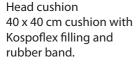
Hemi cushion A more accommodating support than the hemi arm support



Hygiene cover Protects the core of the head support



Comfort pads To be attached to the skirt quard. Offers a pressure distributing effect 2.5, 3.5 and 4.5 cm







Calf pad hinged The user doesn't have to lift the legs when mounting or dismouting the foot supports



Foot board with lock The foot supports can be swung to the side like standard foot supports.



Side support Correction Meant for correction of bad postures in the upper trunk.



Long back rest hinge Covers seat depth: 54.5, 57 og 59.5 cm. Must be used with extra long locking head.



Pads for side support Correction



Frame extender Increases distance between main wheels and front castors Reduces tipping risk



Side support Stable
Meant for users with decreased stability of the upper trunk. For optimal function use together with Stabil back rest cushion

Pad for side support

Stabil



Upholstery for calf support bracket Reduces pressure



Tool set



5.1 Mounting of hip belt

Picture 1

• Pull the belt thorough the hole in the hip belt bracket.



Picture 1

Picture 2

• Thread the belt back trough the belt. clamp.



Picture 2

Picture 3

• Fix the hip belt bracket to the rearmost hole in the back hinge, using the enclosed screws and nuts.



Picture 3

2 pcs 13 mm open-end spanner

5.2 Mounting of H-belt bar

Picture 1

 Remove the push handles and pull the H-belt attachment bar onto the push _handles from the lower end.



Picture 1

Picture 2

• Fix the push handles in correct position and lock firmly. Then fix the bar at the right position/height. The height should be level with the shoulders of user.



Picture 2

Picture 3

 Thread the belt through the rolls and lock the belt by pulling the belt through the belt clamp. Adjust to the requested lenght of belt.



Picture 3

6. ASSEMBLING AND ADJUSTING



6.1 Unpacking

- 1. Unpack all the parts, and check that everything is there according to the packing list.
- 2. Mount main wheels and front castors.
- 3. Mount back rest, arm supports, cushions and foot supports.
- 4. Mount accessories.

Weight of components (55 cm width chair):

Main wheels: 1,9 kg each Front castors: 0,8 kg each

Foot support angle adj.: 2,5 kg each

Uno|Back: 1,25 kg VB Sit: 1 kg

Head support A: 1 kg Head support C: 0,9 kg

Necessary tools are described under each chapter. Accessories described in chapter 5 is a presentation of options, and will be delivered with separate mounting descriptions.

6.2 Main wheels

To mount the main wheel remove the quick release bolt from the hub bushing, lead it through the centre of the main wheel and into the hub bushing while pressing the knob in center.



- ▲ To check that the main wheel is properly attached to the hub, remove the finger from the central knob and pull the main wheel.
- If the main wheel doesn't lock, don't use the wheelchair but contact your dealer.
- A Sand and sea water (salt used for gritting in the winter) can damage the bearings of the main wheels. Clean the wheelchair thoroughly after exposure.

6.3 Front fork

Front forks come as standard with quick release axles. The front fork is easily removed by pressing the knob in centre above the wheel.

Chek angle of castor bearing house. (See chapter 6.5).



6.4 Front castors

To take of

 Press the release button under the front fork.



To mount

• Lead the quick release axle into the bearing house. Pull the fork slightly to ensure that the fork is fully locked.



■ Wide front forks and 7" wide front castors have to be used on Netti III XHD

Sand and sea water (salt used for gritting in the winter) can damage the bearings of the main wheels. Clean the wheelchair thoroughly after exposure.

6.5 Seat height at the front

The seat height depends on:

- · Size of front castors.
- Size of front fork.
- Check the angle of the castor bearing house.

For to change the front castors or front fork unfix the wheel and place it in the required position in the front fork.

▲ The bearing house can not be adjusted in height.

▲ Check the position of the anti tip.

6.6 Seat height at the rear

The seat height at the rear depends on:

- · Size of main wheel.
- · Position of main wheel.

Main wheel

Unfix the hub bushing, including washer and nut, and mount it in required position in the main wheel bracket.

2 pcs 24 mm open-end spanner

When the seat heights changes ensure that the main wheels are placed such that the frame tube is parallel with the ground.

▲ The risk for tipping increases when the main wheel is moved forward in the main wheel bracket.

A Check the position of anti tip.

A Readjust the brakes. (See chapter 6.17).

A Readjust the angle of the bearing house. (See chapter 6.5)

Make sure that the nut on inside of frame totally wreathes the wheel bushing.

6.7 Back rest

- Unfold and lift the back rest up and fit the gas strut into the bracket.
- Secure the back rest by pushing the locking bolt in from the side, through the bracket and gas strut head.



6.8 Adjusting seat depth at the rear

The seat depth can be adjusted 10 cm in the rear and 10 cm in front.

Adjusting seat depth in the rear:

- The back rest hinge has 5 holes with 2,5 cm distance between them.
- The seat depth can be adjusted from 40-50 cm (Measured from front of seat plate to back rest tube without back rest cushion).
- Onto the frame under the chair there is mounted an extra locking head for the gas strut.
- The short locking head covers seat depth 40 cm, 42,5 cm og 45 cm.
- The long locking head covers seat depth 45 cm, 47,5 cm og 50 cm.
 (There is also a long back rest hinge which covers longer seat depths. See chapter 5).



• When changing the position of the back rest hinge, also remember to change the position of the gas strut under the chair. The bracket has 3 holes. When the back rest hinge is set in the shortest position, the gas spring is placed in the front hole using the short locking head. For each position the back rest hinge is pulled out, the gas spring is moved one hole towards the rear. When the gas spring reaches the rearmost hole with short locking head, change to long locking head and start from the front hole again.





When using the comfort seat plate it is recommended to change seat plate when changing seat depth.

By using the adjustment straps in the rear you can gain a few cm on the depth.

Seat depth in the rear is adjusted as follows:

- Release the tilt gas strut by tilting the seat all the way forward.
- Pull out the locking bolt for the back rest, and place the backrest forward in the seat.
- Remove the screws holding the back rest hinge, and set the backrest to the required position. Do both sides at the same time.
- Place the screws back an fix them.
- Also remember to move the gas strut as described earlier in this chapter.
- When adjusting the seat depth at the rear, the screw in the backrest hinge must be tightened with 14 Nm
- 6mm Allen key 13mm open-end spanner
- If the user requires other back rest angles than what is standard, it is possible to change the position of the gas strut in three positions under the chair in front.
- When changing seat depth, you also change the tipping point of the chair. This

can be prevented by changing the position of the main wheel in the main wheel bracket. (See chapter 6.6).

6.9 Adjusting seat depth at the front

It is possible to adjust the seat depth up to 10 cm at the front. Do the following:

- Unfix the screw holding the pull out piece for the foot support.
- Set the pull out piece to the required position
- Fix the screws, tighten with 25 Nm



% 6mm Allen key

By setting the pull out pieces to different positions, it is possible to compensate for a rotated pelvis or different length of thighs.

6.10 Anti tip

- Adjust the anti tip so that it doesn't stick outside the radius of the wheel.
- Pull the anti tip out/rearwards from chassis.
- Turn it down 180°.
- Lock it in position by moving forwards with spring tension.



The anti tips are delivered adjusted according to ordered main wheel size in standard position. If other adjustments are carried out, anti-tips have to be adjusted accordingly.

Adjusting anti tip

The anti tips must be adjusted whenever position or dimension of main wheels is changed.

Correctly adjusted anti tips should be positioned just on the inside of the radius of the main wheel. Anti tips are adjusted as follows:

- Unfix the locking clamp on the anti tip bar using an Allen key.
- Pull or push the bar to required position.
- Fix the locking clamp.
- Do the same procedure on the opposite side.



▲ Check that both anti tips have the same length. The gap between the anti tip wheels and the ground must be max 3 cm.

If the anti tip is positioned on the outside of the main wheel radius, it will interfere with curbs and stairs.

▲ The anti tip should always be used for the safety of the user.

6.11 Adjusting arm supports

- Turn the release handle to the side and hold.
- Adjust the armrest to the required height and release the handle. Lift or lower the armrest slightly until it locks.



The arm support pad and locking screw are set in the middle position.
This can be adjusted to suit the user.

• On Netti III XHD wide arm support pads have to be used.

6.12 Cushions

Cushions are fixed and adjusted on the wheelchair using the velcro.



It is imperative to correctly set-up the cushion in order to ensure good seating comfort

The cushion covers are washable and thereby reuseable. Follow the instruction on the back of the cushion for correct maintenance and washing of the cushion.

6.13 Adjusting the velcro back



- Loosen the straps, and place the back rest cushion so that user gets room for the bottom and the integrated lumbar support in correct position.
- Tighten the straps so that they follow the curvature of the spine and gives a little extra support at the top of the sacrum.

6.14 Foot supports

The evelating foot support is angle adjustable, swingable and removable. It comes with height-and depth adjustable calf support. The foot plates are hinged, and can be angled in fixed positions. As a standard the foot plates come with a locking bolt which makes the plates stronger (See picture page 21). The bolt can be removed by using a pair of circlip pliers.



Netti III HD has the following foot support alternatives:

Amputations support
 See chapter 5 for picture.

Mounting of the foot support:

- Raise the support a few degrees.
- Fold the foot plates up.
- Hold the foot support in the angle on top, and place it in the pull out piece in an angle as shown in picture below.
- Swing the foot support inwards until it goes into locked position.



• Potential squeeze hazard when adjusting foot support in angle.





Height of foot plate:

The foot plates are stepless height adjustable.

- Unfix the adjustment screw so that the adjustment bar moves freely.
- Adjust the foot plate to required height, then tighten the screw.



Angle of foot plate:

- Unfix the screw as shown below using an Allen key.
- Adjust the foot plate to the required angle and tighten the screw.



% 5 mm Allen key

As accessory an adjustment wheel can be used instead of a screw.

Locking and releasing the foot plates

• The foot plates come with a locking bolt which makes the plates stronger

- To lock the foot plates pull the plastic lock on the right foot plate and place the lock over the bolt on the left foot plate.
- To release the foot plate pull the plastic lock and lift the right foot plate up.



While making the adjustment there must be no load on the foot plates.

A For outdoor use, there should be a clearance of 4-5 cm between the plate and the ground.

A Never stand on the foot plates due to risk of tipping forward.

• When adjusting foot support in angle, be aware of squeeze hazard between moving parts.

Removing the foot support:

- Pull the plastic lock on the foot plate rearwards, so that the pin is released, and the foot plate can be folded up.
- Raise the foot support a few degrees.
- Push the release button
- $\bullet \ \mathsf{Swing} \ \mathsf{the} \ \mathsf{foot} \ \mathsf{support} \ \mathsf{outwards}.$
- Lift and remove the foot support (see illustration next page)



Adjusting the calf support The calf support is height and depth adjustable. To adjust height unfix the nut on the outside of the calf support bracket, find the required height and fix the nut again (III. 6.14 A).





III. 6.14

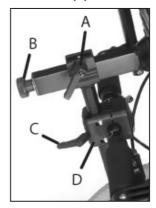
To adjust in depth, the calf pad is removed from the bracket by using an open-end spanner between the pad and the bracket. Find the required position and refix it (III.6.14 B)

* 13 mm open-end spanner



A Never lift the wheelchair by the foot supports.

6.15 Head support



- A Lever for depth adjustment
- B Wheel for angle adjustment
- C Lever for height adjustment
- D Head support bracket





- Place the squared nut in the trace of the head support bracket as shown above.
- Place the head support in the head support bracket.
- The height and the depth of the head support is set to the required positions and tightened.



 The head support bracket is fixed by tightening the four screws two by two diagonally so the bracket is fixed with the same strength divided on the four screws.

Adjusting the head support in depth:

- Release the locking lever on top of the vertical bar (A).
- Adjust the head support and fix it in required position.

Adjusting the head support in height:

- Release the locking lever on the head support adapter (C).
- Adjust the head support and fix it in required position.

Adjusting the head support in angle:

- Release the adjustment wheel at the rear of the horizontal bar (B).
- Adjust the head support and fix it in required position.

Adjusting the head support sideways:

- The head support adapter can be moved both to the right and left, giving the possibility to accommodate special needs for head support.
- Untighten the four screws holding the adapter together.
- Move the adapter to the required position and fix the adapter by tightening the screws diagonally.
- A Remember to release the levers when adjusting the head support.
- If the head support stand does not fit the bracket perfectly the bracket is probably fixed too tight or unevenly.
- After fitting the head support fix it properly by tightening the little set screw in the centre on top of the head support bracket using an Allenkey.
- If the head support seems to short in height, it can be turned 180° by releasing the adjustment wheel at the rear of the horizontal bar (B).

6.16 Push handles

Adjustment of push handles:

- · Release the lever on the side and lift the handle all the way up.
- Turn the handles into required position.
- · Adjust height.
- Lock the handle in required position by tightening the lever.



A Be sure to lock the handle properly. A Check that the safety screw is

- properly tightened.
- To remove the handles, the safety screw at the bottom also has to be removed.

6.17 Adjusting the brakes

- The brakes are freely adjustable along the frame tube.
- To activate the brake, push the handle forward (III. 6.17.1)



III. 6.17.1

• To release the brake, pull the handle rearwards (III. 6.17.2)



III. 6.17.2.

• To reposition the brake, loosen the two screws on the inside of the brake clamp



III. 6.17.3.

- For fine adjustment, loosen the upper screw on the inside of the brakes
- Adjust the brake position and tighten the screws.



III. 6.17.4.

5 mm Allen key

⚠ Check that the brakes are correctly adjusted by activating the brakes and be sure that the wheelchair doesn't move.

The brakes are constructred as parking brakes and shall not be used as driving brakes

Be aware of potential squeeze hazard between brake and tyre.

UREHAB

Drum brake

The wheelchair is mounted main wheels. that are equipped with drum brakes.



the brake doesn't brake properly: To adjust the wire on one or both sides, adjust

the foot screw 2-4 rounds out. Then re-check the brakes

If the wire is too loose:

Adjust the foot screw all the way in. Tighten the wire by loosening the wire clamp before pulling the wire further through it. Tighten the wire clamp, and adjust the foot screw out again





1 pc 10mm open-end spanner.



To ensure the correct functions of the wire, these must never be taut.

Operating and applying the brake The wheelbase in drum brake is fitted with hand operated hub brakes to allow regulation of speed on hills and whilst travelling along. These are located on the push handles.



- To apply the brakes, pull the brake levers (1) evenly and smoothly towards handle and bring the wheelbase to a stop.
- For to put on and lock the parking brake (2) press the lever (1) against the push handle and lock the parking brake with the finger. Be sure that both parking brakes are locked.
- The parking brake will be released when you press the lever (1) against the push handle. It is locked with a spring and this will in this way be released.



A It is extremely important that the parking brakes are locked when the user is left sitting in the wheelchair.



A Don't leave the user in the wheelchair wihout to put the parking brake in function.

6.18 Seat angle / tilt

The seat angle is regulated using the release handle mounted on the push bar. The seat unit can be tilted from -11° to +14°.



6.19 Back rest angle

The back rest angle is regulated using the release handle mounted on the push bar. The angle can be regulated from 4° forward to 40° backwards.

▲ To ensure the correct functions of the wire, these must never be taut

▲ The seat and backrest angle must not be adjusted wihtout using the anti tips.

The release handle has the following label:





Tilt

Recline

A Risk for tipping.
Check the position of anti tip

7. MANOEUVERING

7.1 General techniques

The weight and balance of the chair influences the manoeuvering ability of the wheelchair. The weight, size and sitting position of the user are also influencing factors. Also the position of the wheels will influence the driving ability. The more weight placed over the main wheels, the easier it is to manoeuvre. If heavy weight is placed over the front castors, the chair will be heavy to manoeuvre.

Companion:

If the user is left alone in the wheelchair, always lock the brakes and secure that the anti tips are turned down.

Parking:

Increase the underneath support of the wheelchair by moving the chair about 10 cm backwards making the front castors turn forward.

7.2 Driving techniques

- Step up -

Users, drive up a step forwards: This technique is only for very experienced users.

- Check that the anti tip is turned up.
- Drive close to the step.
- Balance the wheelchair on the main wheel so that the front castors are lifted high enough to enter the step.
- Make a firm grip on the push rims and move the body forward while pushing.

▲ Turn the anti tip down.

Companions, drive up a step forwards:

- Check that the anti tip is turned up
- Angle the wheelchair backwards.
- Lift the push handles while pushing the chair onto the step.



Users, drive up a step backwards: This technique is only useful if the step is very low. It also depends on the clearance between the foot plates and the ground.

- Check that the anti tip is turned up.
- Drive the chair backwards towards the step.
- Make a firm grip on the push rims and move the body forward while pulling.

Turn the anti tip down.

Companions, drive up a step backwards:

- Check that the anti tip is turned up
- Pull the chair backwards next to the step
- Angle the wheelchair backwards, moving the front castors slightly up in the air.
- Pull the wheelchair up the step and go backwards long enough to put down the front castors on the step.

▲ Turn the anti tip down.

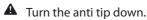


7.3 Driving techniques

- Step down -

Users, drive down a step forwards: This technique is only for very experienced users.

- Check that the anti tip is turned up.
- Drive towards the step.
- Make a firm grip on the push rims and push fast forward so that the wheelchair comes down on all four wheels at the same time.



Companions, drive down a step forwards:

- Check that the anti tip is turned up
- Angle the wheelchair backwards, moving the front castors slightly up in the air.
- Drive carefully down the step and angle the wheelchair forward putting the front castors back on the ground.
- ▲ Turn the anti tip down.

Users, drive down a step backwards: This technique is only for very experienced users. This technique should not be used if the height of the step is more than 10 cm.

- Check that the anti tip is turned up.
- Move the wheelchair backwards to the step.
- Move carefully down the step backwards while moving the body forward to keep the balance of the chair.
- Doing this increases the risk of tipping backwards.
- ▲ Turn the anti tip down.

Companions, drive down a step backwards:

- Check that the anti tip is turned up.
- Move the wheelchair backwards to the step.
- Drive carefully down the step and move the wheelchair backwards on the main wheel until the front castors have come away from the step.
- Put the front castors down on the ground.

▲ Turn the anti tip down.

7.4 Driving techniques - Slope -

Important advise for driving down and up hill avoiding the risk of tipping.

- Avoid turning the wheelchair in the middle of a slope.
- Always drive as straight as possible.
- ▲ It is better to ask for assistance than taking risks.

Driving uphill:

Move the upper part of the body forwards in order to maintain the balance of the chair.

Driving downhill:

Move the upper part of the body backwards to maintain balance of the chair. Control the speed of the chair by clutching the push rims. Do not use the brakes.



7.5 Driving techniques

- Up stairs -

Always ask for assistance.

A Never use escalators, even if assisted by a companion.

With assistance, backwards.

- Check that the anti tip is turned up, and that the push handles are fixed properly.
- Pull the wheelchair backwards to the first step of the stairs.
- Angle the wheelchair backwards on the main wheels.
- Pull the wheelchair slowly up the stair, one step at the time keeping the balance on the main wheel.
- Reaching the top of the stair, pull the wheelchair backwards far enough to put the front castors safely down on the floor.

A Turn the anti tip down.

If two companions are present, one person can assist lifting in the front of the frame.

A Do not lift the wheelchair holding onto the foot supports.

A Do not lift the wheelchair holding onto the arm support.

The companions should use the strength in their legs carrying the chair, avoiding unnecessary stress on the back.

7.6 Driving techniques

- Down stairs -

A Never use escalators, even if assisted by a companion.

With assistance, forwards

- Check that the anti tip is turned up and that the push handles are fixed properly.
- Drive the wheelchair forward to the first step of the stair.
- Angle the wheelchair backwards on the main wheels.
- Have a firm grip on the push handles, and keep the balance on the main wheel taking one step at the time
- Reaching the bottom of the stair, put the front castors safely down on the floor.

Turn the anti tip down.

If two companions are present, one person can assist lifting in the front of the frame.

A Do not lift the wheelchair holding onto the foot supports.

A Do not lift the wheelchair holding onto the armrests.

7.7 Transfer

Techniques for transfering to/from the wheelchair should be practiced well with the persons involved. Here, we give some important advices for preparation of the chair:

With or without companion - sideways. Before transfer:

- The wheelchair should be placed as close as possible to the destination of the transfer.
- Pull the wheelchair backwards 5-10 cm in order to make the front castors turn forward.
- Lock the brakes.
- Remove foot support and arm support on the side of the transfer.

With or without companion – forwards. Before transfer:

- The wheelchair should be placed as close as possible to the destination of the transfer.
- Pull the wheelchair backwards 5-10 cm in order to make the front castors turn forward.
- Lock the brakes.
- Tilt chair forward.



Using a lift:

Before transfer to chair:

- Tilt the chair back
- Remove the head support
- Remove the foot supports
- Open the back rest angle slightly
- Replace the components when transfer is finished.



Never stand on the foot plates without making sure that they are touching the ground due to the risk of tipping the chair forwards.

7.8 Point of balance

Adjust the point of balance by changing the position of the main wheel in the main wheel bracket.

- Move the main wheel hub and the main wheel. (Chapt. 6.6)
- Adjust the brakes. (Chapt. 6.17)

2 pcs 24 mm open-end spanner
5 mm Allen kev

When the main wheels are moved forward, it will be easier to manoeuvre the wheelchair, but the risk of tipping backwards increases.

- The point of balance can also be changed by adjusting the seat angle and/or angle of back rest.
- ▲ It is recommended to use the anti tip.
- ▲ Check that the main wheel and quick release are locked properly. (Chapt 6.2)

7.9 Lifting the wheelchair

• The wheelchair should be lifted in the frame only and it is marked with symbol (ill. 7.9.1) where it should be lifted.



III. 7.9.1

- A Never lift the wheelchair in the foot supports or arm supports
- Never lift the wheelchair with a user in it.

order.

- ▲ If defects or damages occur, please contact your dealer.
- ▲ Check/re-adjust screws and nuts at regular intervals.
- A Sand and sea water (salt used for gritting in the winter) can damage the bearings of the front castors and main wheels. Clean the wheelchair thouroughly after use.
- We recommend washing the wheel chair in washing chamber at >85°C.
- For small damages to the surface, original surface paint can be ordered from the manufacturer.

8. MAINTENANCE

8.1 Maintenance instructions

The Netti chairs are built of modules. Alu Rehab carries stock of all parts and is ready to supply these on short notice. Necessary instructions for mounting will follow the parts.

Parts to be handled by user are defined in spare part catalogues that can be downloaded at www.alurehab.com. These parts can, if needed, also be removed and sent to manufacutrer/distributor upon request.

Parts related to wheel frame construction must be handled by manufacturer or authorized sercvice facility.

A You can order original paint from Alu Rehab to repair scratches and minor damages to the paint:
Please contact your dealer to

Frequency	Weekly	Monthly
Check defects/ damages E.g. breakage/missing parts	Х	
Washing of wheelchair		Х
Oiling of bearings*		Х
Washing of cushions		Х
Check anti tip function		Х
Check brake adjustment		Х
Check tyre wear		Х

* As a rule of thumb, use oil on movable parts and all bearings. Alu Rehab recommends use of ordinary bicycle oil

8.2 Cleaning and washing

- 1. Remove cushions before washing the wheelchair.
- 2. Clean cushions and covers according to instructions printed on cushions.

Cushion cleaning procedures

CORE	
Washing	Hand wash 40°C
Disinfection	Virkon S
	Auto clave 105°C
Drying	Squeeze
	Air dry standing edgewise
OUTER COVER	
Washing	Machine wash 60°C
Drying	Tumble dry max 85°C

- 3. Clean frame using water and a rag.
- 4. If jet water washing, avoid pointing directly towards gas springs, labels and back cushion.
- 5. We recommend using soft soap.
- 6. Wash the wheelchair well using clean water to remove all the soap.
- 7. Use methylated spirit to remove any dirt left.

Disinfecting of the wheelchair

Remove cushions (see separate washing instructions). Use a soft rag added with Hydrogenperoxide or technical alcohol (Isopropanol). Hydrogenperoxide recommended: NU-CIDEX "Johnsom&Johnson"

9. TROUBLESHOOTING

	LESHOUTING	
Symptom	Reason / Action	Referance
The wheelchair is going askew	 The angle of the bearing house might not be 90° Check that the front castors are fitted in the same height The main wheel hubs might be incorrectly mounted One of the brakes might be too tight The user are sitting very askew in the chair The user might be stronger on one side than the other 	Ref. 6.5 Ref. 6.4 Ref6.6 Ref. 6.17
The wheelchair is heavy to manoevre	 The main wheel hubs mights be incorrectly mounted Clean the front castors and forks for dirt To much weight over the front castors (Adjust the point of balancy by moving the main wheels back) 	Ref6.6 ReReRef. RREEeeereR- eRe
The wheelchair is hard to turn	 Control that the front castors are not fixed too hard Adjust the angle of the bearing house Heavy weight over the front castors Adjust the point of balance 	Ref 6.4 Ref. 6.5
The front castors are wobbling	 Too much weight over the front castors (Adjust the point of balance by moving the main wheels back) The front castors are not fixed properly Check that the front forks are fitted in the same height The angle of the bearing house might not be 90° 	Ref. 6,4 Ref. 6.4 Ref. 6.3 Ref. 6.5
Themainwheels are difficult to take off and put on	Clean and grease the quick release.Adjust the length of the hub bushing	Ref. 6.6
The brakes are not functioning well	Adjust the brake	Ref. 6.17
The wheelchair feels "shaky"	Check screws and adjustment points in general	

Please contact your dealer for information about authorized service facilities that can give support if solution is not reached in this form.

When in need of spare parts, please contact your dealer

10. TESTS & WARRANTY

10.1 Tests

Netti III XHD is tested and has been approved for usage both indoors and outdoors. The chair is CE marked.

Maximum user weight: 200 kg

Seating system is tested for fire resistance according to: ISO 7176-16

10.2 Guarantee

Alu Rehab is providing you with a 5-year guarantee on all frame components and on the cross-tube assembly. There is a 2-year guarantee on all other components except batteries. Alu Rehab is not responsible for any damage resulting from inappropriate or unprofessionalinstallationand/orrepairs, neglet, wear, from changes in wheelchair assemlies or instutions not approved by Alu Rehab or by use of spare parts delivered or produced by third parties. In such cases, this guarantee shall be considered null and void.

10.3 Claim

- Claim is to be addressed to the sales agent of the wheelchair. Please note that sales documentation has to be filled in and signed correctly in order to document time and and place of the purchase of the wheelchair.
- Generally, defects are accepted as reason for claims. The sales agent and Alu Rehab are to decide whether a defect has to be repaired, or the customer is entitled to a reduced prize due to the defect.
- This decision is based on an evaluation of defect. 14 days after receiving a claim, the customer receives a report from the sales agent and/or Alu Rehab are going to handle the defect.
- Claim are to be forwarded as soon as a defect is discovered.
- Normal wear, incorrect use or incorrect handling is not a reason for claims.
- The user is to use, maintain and handle the wheelchair as described in the user manual.

10.4 Spare part guarantee

- Alu Rehab offers a 5-year guarantee (as a minimum) for spare parts. The periode of guarantee is defined as beginning at the date, Alu Rehab cancels the production of a specified type of chair.
- During the periode of spare part guarantee, spare parts are delivered within 14 days.
- During the periode of spare part guarantee, Alu Rehab offers a 1 year guarantee for defect spare parts.

10.5 Special adjustment/adaptations

Special adjustments/adaptations are defined as all adjustments that are not included in this manual. Wheelchairs that are especially adjusted/adapted by the customer can not keep the CE mark given by Alu Rehab A.S Norway. If this is the case, the warranty given by Alu Rehab A.S Norway will not be valid. If any uncertainty about special fitting and adaptations, please contact Alu Rehab A.S.

10.6 Combinations with other products

Combinations of Netti and other products not manufactured by Alu Rehab A.S Generally in these cases, the CE mark of all the products involved will not be valid. However, Alu Rehab A.S has made agreements with some manufacturers about some combinations.

. For further information, please contact your dealer or Alu Rehab A.S Norway directly

10.7 Service and repair

Information about service and repair services in you area, please contact your local dealer.

- A unique identification number / serial number is to be found on the bottom frame on left side of the chair.
- A spare part catalogue for the wheelchair can be obtained through your local dealer or downloaded at www.alurehab.com
- A refurbisment manual for the wheelchair can be obtained through your local dealer or downloaded at www.alurehab.com

12. MEASUREMENTS & WEIGHTS

Size*	Seat depth Standard**	Back rest height*** (Extender)	Total with	Weight
35 cm	40-50 cm	48 (60) cm	59 cm	31,0 kg
38 cm	40-50 cm	48 (60) cm	62 cm	31,5 kg
40 cm	40-50 cm	48 (60) cm	64 cm	32,0 kg
43 cm	40-50 cm	48 (60) cm	67 cm	32,5 kg
45 cm	40-50 cm	48 (60) cm	69 cm	33,0 kg
50 cm	40-50 cm	48 (60) cm	74 cm	34,5 kg
55 cm	40-50 cm	48 (60) cm	79 cm	36,5 kg
60 cm	40-50 cm	48 (60) cm	84 cm	38,5 kg
65 cm	40-50 cm	48 (60) cm	89 cm	40,5 kg
70 cm	40-50 cm	48 (60) cm	94 cm	42,5 kg
75 cm	40-50 cm	48 (60) cm	99 cm	44,5 kg

^{*} Measured between edges of frame tubes. For distance between shirt guards add 2,5 cm

The weight is including main wheels, front castors, foot supports and arm supports. No cushions...

Max user weight is 200 kg.

⚠ When mounting accessories such as power kit etc the weight of the accessories must be subtracted from the max user weight.

Dealer:	
Serial no.:	
Date supplied:	
Dealer stamp:	

^{**} Measured from front of seat plate back to back rest hinge without cushion.
Using standard Uno back rest subtract app. 3 cm

^{***} Measured from seat plate to top of back rest velcro



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