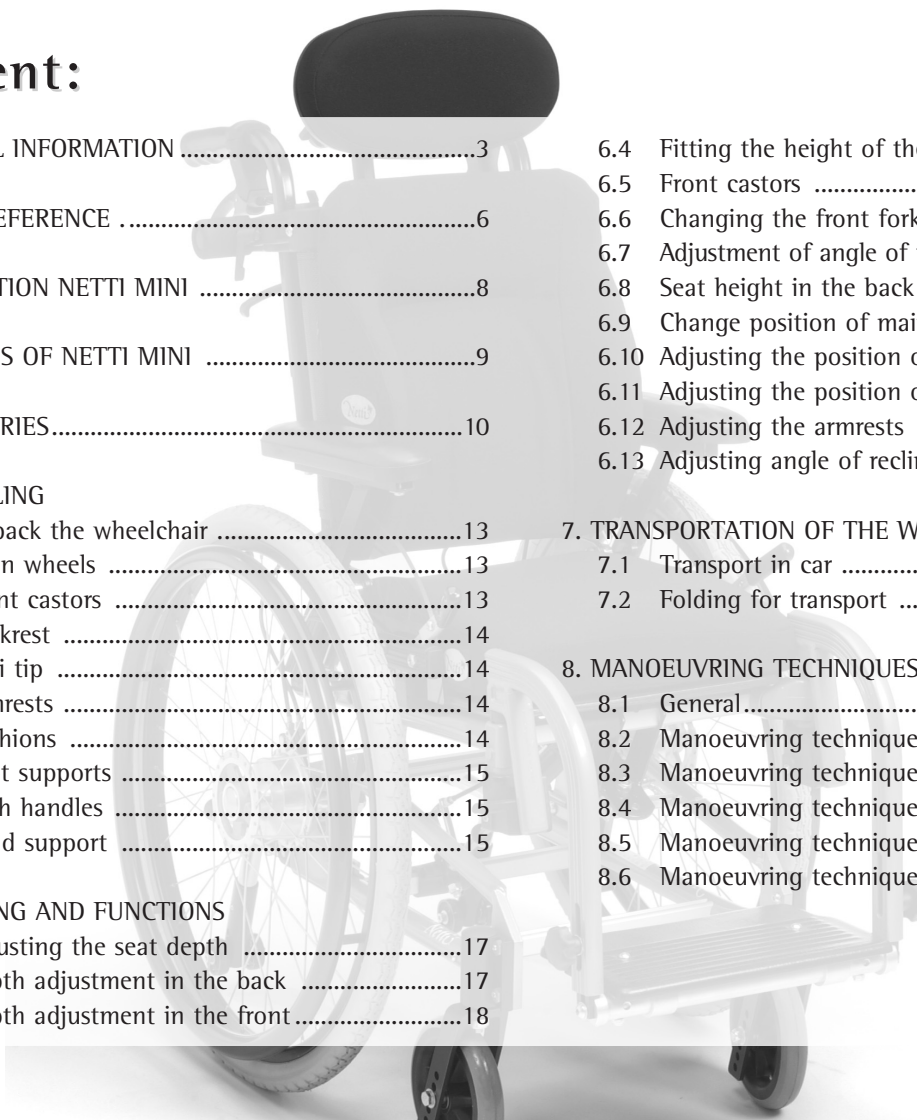


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This user manual is valid as of 01.05.2003,
and replaces earlier manuals.

NETTI MINI is manufactured by:

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Telephone +47 51 68 18 88 • Telefax +47 51 68 18 89
E-post: post@alurehab.com • www.alurehab.com

I. General information

1.1 QUALITY AND DURABILITY

NETTI wheelchairs are tools for improvement of life quality. It shall be a tool that the user and surroundings can trust. NETTI Wheelchairs are tested at TÜV Product Service in Germany following the European Standard EN 12183:1999. As manufacturer, Alu Rehab A.S evaluates the test to be equal to 5-6 years of normal use of the chair. The disability of the users 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.

1.2 ENVIRONMENT AND DISPOSAL

Alu Rehab and its suppliers care about the environment. No harmful materials are used producing the NETTI wheelchairs.


Disposal: All packing material can be recycled. The frame and accessories of NETTI should be divided, sorting materials of different kind. E.g. Metal based parts, plastic made parts, foam made parts etc. These should be disposed according to rules set by local authorities.


Netti wheelchairs are all based on the principle of modules. Having many possibilities for adjustments to each individual user, makes reuse of parts easy. This may be both economically efficient as well as environmentally friendly.



1.3 ABOUT THIS MANUAL

IN ORDER TO AVOID DAMAGES WHILE USING NETTI MINI WHEELCHAIR, PLEASE READ THIS MANUAL CAREFULLY BEFORE STARTING TO USE THE CHAIR.

 On different parts of the chair refer to this manual and means that this manual should be read before usage.

 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.

ANTI TIP FOR NETTI MINI.

Correctly adjusted anti tips prevents the chair from tipping backwards. We recommend all users to make use of the anti tip.

I. General information

I.4 VITAL MEASURES

NETTI Mini is a comfort wheelchair meant for both indoor and outdoor use. It is tested and approved according to the ISO standard 7176. TÜV Product Service in Germany has carried out the tests.

SPECIFICATIONS MAY VARY IN DIFFERENT COUNTRIES.



NETTI Mini



NETTI Mini



NETTI Mini



NETTI Mini

Seat width:

25, 30, 35

Seat depth:

32,5 - 37,5 cm

Seat height:

42 (40-47) cm

Height of backrest:

38 cm

The model is also supplied with:

- Backrest;
Low backrest with velcro and straps & recline function.
- Backrest cushion;
Netti Mini backrest cushion adjustable in height, with lumbar support and anterior support.
- Tilt in space mechanism.
- Sit cushion with good pressure distributing properties.
- Headrest.
- Arm rests;
height adjustable and removable.
- Push handles;
height adjustable, swingable and removable.
- Brakes;
Companion brakes (drum brakes) with parking brake and brake on the frame.
- Foot supports;
removable and angle adjustable.
- Mainwheels;
22" tubeless with quickrelease.
- Push rims;
Black plastic.
- Front castors;
6" tubeless with quickrelease.
- Anti tip;
Height and length adjustable. Can be turned and used as step climbers.

I. General information

I

Quick reference

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

THE QUICK REFERENCE IS **NOT A REPLACEMENT FOR THE MANUAL, ONLY A REMINDER/CHECK LIST**


- Unpack the wheelchair (see chapter 5,1 page 13)
- Assemble the front castors
- Assemble the main wheels
- Put the backrest backwards and attach the gas cylinder by using the locking bolt.
- Place the backrest and the sit cushion in the chair
- Assemble the armrests
- Put the driving handles in the wanted position
- Assemble the headrest

Fitting of the chair for the user:

- Make individual adjustments of the chair and its functions (see chapter 6 page 17)

Assembly of accessories:

- Assembly of accessories. See accessories chapter 4 and assembly page 5.

 Be aware that some accessories can be installed by retailer or manufacturer only.


- Drive carefully and considerate!


 **NEVER STAND ON THE FOOTPLATES BECAUSE OF THE RISK FOR TIPPING THE CHAIR FORWARDS.**

 **NEVER LIFT THE WHEELCHAIR BY THE FOOT SUPPORTS.**


 **WHEN THE CHAIR IS TILTED BACKWARD, THE ANTI TIPS AND BRAKES SHOULD ALWAYS BE IN USE!**

 **BE SURE TO LOCK ALL HANDLES PROPERLY.**

 Always check that the main wheel is properly attached to the hub before using the chair.

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

 Country specific configurations of models may exist.

 Please contact your dealer for complete information.
If in doubt - contact your dealer!

Functionality test

Function	Test
Foot supports	Should easily lock in the wanted angle, should easily be taken on and off, should be no play in the attachment to the frame, footplates should easily be adjusted in height, calf supports should be in the same height on both sides.
Adjustment bar	The adjustment bar for seat depth should be in the same position on both sides of the chair, and it should be securely fastened.
Bearing house	Should be attached in a vertical position on a horizontal floor.
Front castors	Should lock in assembled position, should easily be taken on and off using the quickrelease, both front castors should be placed in the same holeposition on the front fork.
Brakes	The brake should be securely attached to the chassis and in and in the correct position (If necessary use a brake adjuster)
Arm-rests	Adjust the plastic screws in the arm-rest adapter next to the arm-rest to even out play before tightening the contra nut, the armrest should easily glide in the arm-rest adaptor, the arm-rest pad should be in the same position on both sides.
Main wheel	Should be locked in assembled position, should easily be taken on and off using the quick release, both main wheels should be placed in the same position on both sides.
Anti tip	Check that they are adjusted in the same position on both sides and in the correct position according to the main wheels (inside of the rubber). Adjust the adjustment tubes with wheels in the correct position. Check that it is possible to put the anti tips in both active and passive position.
Push handles	Check that the safety screw is in position and securely fastened. The push handles should easily be moved in height and be turned 90° in upper position. Check the locking handles on both sides.
Tilt	Move the tilt to the maximum backwards and forwards. It should move easily. Check that there is no play in the wires, and tighten if necessary. Check that the tilt function is marked with symbol stickers.
Recline	Recline the backrest to the maximum backwards and up. It should move easily. Check that there is no play in the wires, and tighten if necessary. Check that the recline function is marked with symbol stickers.
Direction stability	Put the chair in motion by using equal force on both sides of the push bar on an even and horizontal surface. The chair should move in an approximately straightforward direction. If not, check the user manual under the points; Front castors and Main wheels.

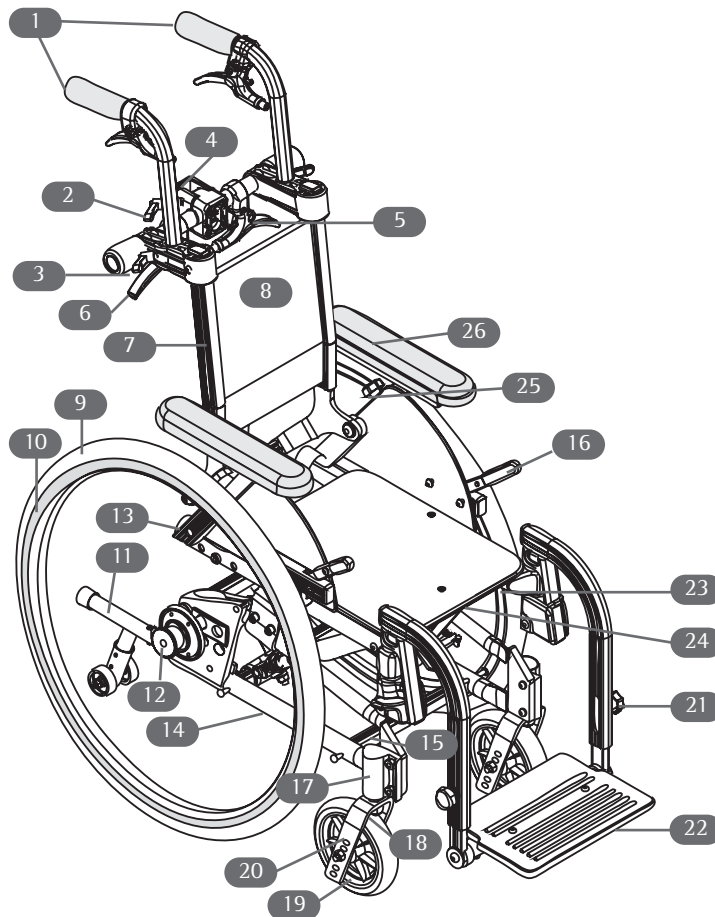
2. Description Netti Mini*

1. Push handles
2. Angle & depth adjustment for headrest
3. Locking handle for push handles
4. Headrest bracket, where the headrest is attached
5. Tilt release handle
6. Recline release handle
7. Backrest tubes
8. Velcro back, where the back cushion is attached
9. Main wheel
10. Push rim
11. Anti-tip
12. Quick release hub
13. Armrest adapter
14. Side frame
15. Cross bar
16. Brake
17. Bearing house / Front fork adapter
18. Quick release button for the fork
19. Front castor
20. Front fork
21. Handle for adjustment of height
22. Footplate

23. Adjustment bar for seat depth
24. Seat plate
25. Adjustment wheel for armrest
26. Armrest w/armrest pad

i **IF ANY OF THESE PARTS ARE MISSING, PLEASE CONTACT YOUR DEALER.**

*** COUNTRY SPECIFIC CONFIGURATIONS OF MODELS MAY EXIST. PLEASE CONTACT YOUR DEALER FOR COMPLETE INFORMATION.**



3. Features of Netti Mini

	Standard	Accessories
Seat	<ul style="list-style-type: none"> • Tilt 11° forward to 14° backward • Adjustable height 39,5 -47 cm 	Universal table for wheelchair Reading table (Attached to Universal table for wheelchair) Hip belt, various models, H-belt, various models
Wheels	<ul style="list-style-type: none"> • 22" tubeless main wheels with quick release • 6" tubeless front castors 	12", 20", 22", 24" main wheels Transport wheels, Spoke protectors, Camber adapter Various models of front castors
Backrest	<ul style="list-style-type: none"> • Angle 88°-120° • The back cushion has integrated lumbar and anterior support and it can be regulated in height 	Back extension, Wedge for backrest, Extra lumbar support, Back cushions, various sizes and anterior supports
Foot support	<ul style="list-style-type: none"> • 90° • Whole footplate • Height adjustable 	Foot supports with fixed angle 68°, 75° and 90° Angle adjustable foot supports Knee and thigh support
Armrests	<ul style="list-style-type: none"> • Height adjustable and removable 	Lateral support, swing able Comfort pads for inside of armrests Different models of armrest pads
Headrest	<ul style="list-style-type: none"> • Height- /depth adjustable and removable 	Different models of Headrests

4.Accessories

Foot supports

Standard

Removable with angle adjustable footplate



Foot box

Removable



Fixed angle 68°/75°/90°

Removable and swing able



Angle adjustable foot support



Head rests

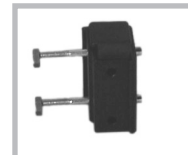
Headrest A with side support

Headrest B small



Extension block

For front fork



Table

Universal table, transparent

(Upholstery is not included as standard)



Seat cushion

Netti Sit

(For more information on sit cushions please contact us)



Vital Base Integral

Used to increase stabilisation of pelvis



Knee- and thigh support



Lumbar support

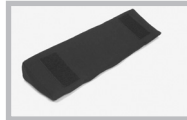
Used to increase support in the lumbar region



4.Accessories

Wedge

Used to increase lateral support



Anti tip

Adjustable in height, depth and swing able



Break handle extender

Sizes 90mm, 150mm and 250mm



Spoke protectors

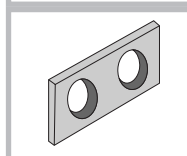
Black; 20", 22" and 24" main wheels

Transparent; 20", 22" and 24" main wheels



Camber adapter

2° and 4°



Tool kit

Four open-end spanners,

2 x 10/13 and 2 x 24/27 mm

Four Allen-keys (hexagon), 3 - 4 - 5 and 6 mm

Two screwdrivers (slathered and cross)

All wrapped in a handy cover



Frame extender



Backrest extender

Will extend the back with 12 cm



Belts for attachment in mini bus

Wheelchair Restraints: Part Number WWR/ATF/K/R

Passenger Harnesses: Part Number QIR/3H/ATF/WH

Comfort pads



Lateral support



Transport wheels

Attached on the inside of main wheel.

When removing the main wheels, these 7" transport wheels make the wheelchair very easy to maneuver. Only to be used with 24" main wheels.



**ACCESSORIES IS DELIVERED WITH NECESSARY
EXPLANATION ABOUT HOW TO ATTACH/USE THE PRODUCT.**

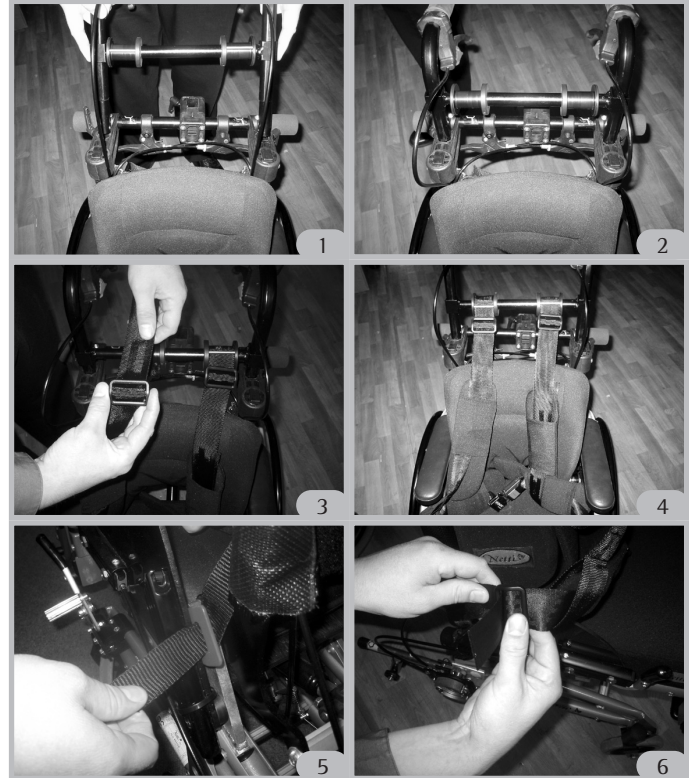
4.Accessories

ASSEMBLY OF H-BELT

- Attach the H-belt attachment bar to driving handles. Fix the bar in the right position (Height). The Height should be above the shoulders of the user. (ill.1)
- Attach the driving handles in correct position and lock firmly. (ill.2)
- Tread the belt through the rolls and lock the belt by pulling the belt through the belt clamp. Adjust the wanted length of belt. (ill.3)
- Correctly attached belt looks like ill.4.
- Turn the bracket backward to put the belt trough. (ill.5)
- Take the belt through the attached clamp and adjust the correct length. (ill.6)

ASSEMBLY OF HIP-BELT

- Turn the bracket backwards to put the belt trough. (ill.5)
- Take the belt through the attached clamp and adjust the correct length. (ill.6)



Item numbers for complete Hip-Belts

20845 Hip-Belt with car lock

20859 Hip-Belt with plastic lock

5.Assembling



5.1 UNPACKING

NETTI is delivered ready to use. No tools are necessary.

1. Unpack all items in the boxes and verify that everything is there according to the packing list.
2. Mount wheels and front castors (5.2 & 5.3)
3. Mount the backrest, anti tip, armrests, cushions, and foot supports according to this chapter.
4. Mount additional accessory

For adjustments during fitting, please refer to chapter 6. Necessary tools are listed under each section. Accessories displayed in chapter 4, are a presentation of options, and will be delivered with mounting instructions.

5.2 MAIN WHEELS

- Press the quick release bolt, and attach the main wheel to the hub.
- Pull slightly in the wheel to secure that it has been properly locked.

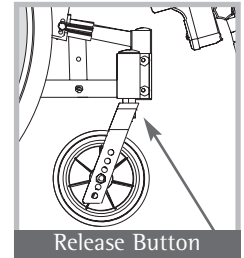


ALWAYS CHECK THAT THE MAIN WHEEL IS PROPERLY ATTACHED TO THE HUB BEFORE USING THE CHAIR.



5.3 FRONT CASTORS

- Press the release button under the front fork
 - Mount the castor into the bearing house. Pull slightly in the wheel to secure that it is properly locked.
- If the front fork position needs to be changed or bearing house adjusted, please refer to section 6.7.



5.Assembling

5.4 BACKREST

- Lift the backrest up and fit the gas cylinder into the bracket.
- Lock the backrest by pushing the locking bolt in from the side, through the bracket and cylinder



5.5 ANTI TIP

- Pull the anti tip out
- Turn them down 180°
- Lock them in position

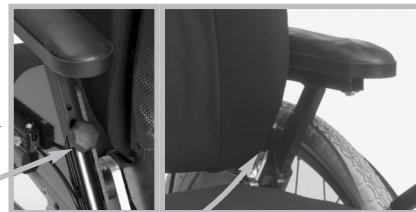
⚠ The anti-tippers should always be used for the safety of the user.



i The anti tips are delivered adjusted according to ordered main wheel size in standard position. If other adjustments, anti tips have to be adjusted accordingly. Please refer to section 6.10

5.6 ARMRESTS

The armrests are adjusted by using the adjustment wheel placed under the armrest (on the backside by the back rest).



5.7 CUSHIONS

Cushions are fastened and adjusted on the wheelchair using velcro. Follow the instructions on the back of the cushions in order to mount it correctly.

👍 Correct fitting of the cushion is crucial to achieve good seating comfort. Please see chapter 6 for some basic advises.

👍 The cushions are washable and thereby reusable.

Follow the instruction on the back of the cushion for correct maintenance and washing of the cushion. Also see section 9.1 for more details.



5.Assembling

5.8 FOOT SUPPORTS

Standard foot support is fixed 90° with whole footplate. Height adjustable and removable. The footplate can be adjusted in fixed angles.

NETTI Mini has the following foot support alternatives as accessories:

- Fixed type 68° angle
- Fixed type 75° angle
- Fixed type 90° angle
- Angle adjustable foot supports
- Amputation support
- Foot box

All these are removable and swing able.

All types of foot supports are attached and removed the in same way.

Attach the foot support

- Hold the foot support on the side tubes, put it into the adjustment bar for foot supports and give it a light push until it locks.

Remove the foot support

- For to remove the foot support loosen and pull straight up.



NEVER STAND ON THE FOOTPLATES BECAUSE OF THE RISK FOR TIPPING THE CHAIR FORWARDS.



NEVER LIFT THE WHEELCHAIR USING THE FOOT SUPPORTS.

5.9 PUSH HANDLES

Adjusting of the push handles

- Turn the handle on the side and lift the push handle up. When lifted all the way up, they can be turned around.
- Place the handles into wanted position and lock the handle.



BE SURE TO LOCK THE HANDLE PROPERLY.





To remove the handles from the chair, the locking screw at the bottom of the handle has to be removed.


5.Assembling


5.10 HEAD SUPPORT

- Place the squared nut in the trace of the headrest bracket.
- Screw the adjustment handle into the squared nut. Don't turn it all the way in to give room for the headrest.
- The headrest is then placed in the headrest bracket.
- The height and the depth of the headrest are set in the required positions and tightened.
- To change the angle of the headrest, turn the adjustment wheel. Set the headrest in the wanted position and fasten it with the wheel.

 **Remember to release the handles when adjusting the headrest!**

 The headrest 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. The two plastic elements must not be screwed totally together

 If the headrest stand does not fit the bracket perfectly the bracket is probably fastened too hard or unevenly.

 The headrest bracket can be adjusted sideways, and in wanted angle, by loosening the screws in the bracket. Then follow the instructions above for correct adjustment of the headrest bracket.

6. Adjustments

ADVICE FOR FITTING THE WHEELCHAIR

6.1 ADJUSTING THE SEAT DEPTH

Take off headrest and foot supports. Open up the backrest angle a few degrees to make it easier for the user to get into the chair. Make sure the seat is in a horizontal position.



The user needs to get the bottom well into the chair.

Attach the foot supports.

The back cushion is adjusted in height. Check that the lumbar support is in the same position as the lumbar region of the user.

Put the backrest in a comfortable position for the user.

If the seat depth is correct, there should be approximately 3-6 cm distance between the edge of the cushion and the hollow of the knee. When using feet for propelling the chair there should be minimum 6 cm.

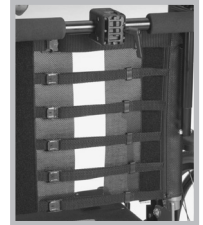
Attach the headrest.

If adjustment of depth is necessary

Seat depth of NETTI Mini can be adjusted both in the front and the back. As a basic rule, we recommend that major adaptations are done in the back, and only slight adjustments for different lengths of legs etc. are done in the front.

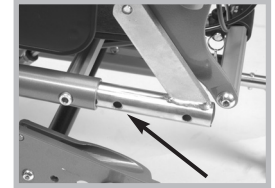
6.2 DEPTH ADJUSTMENT IN THE BACK


- The seat depth can be adjusted in 3 intervals (32,5, 35, 37,5 cm) without change of parts.
- Small adjustments are done by adjusting the straps on the backrest



Adjustment is done as follows

- Tilt the chair all the way
- Pull out the pin that locks the backrest and lean the backrest forward in the chair.
- Remove the screws for adjusting the seat depth on both sides and move the backrest hinge to the required seat depth. The backrest hinge should be in the same position on both sides.
- Tighten the screws.
- The recline gas spring must change position, so that the backrest angle equals 90° when the recline gas spring is in the end position.



 6 mm allen key.

6. Adjustments

Attaching the gas spring under the chair

In order to achieve a 90° position of the backrest, the position of the gas spring under the chair has to be changed when the seat depth is adjusted.

i If special needs of the user demands a different angle than the recline function allows, the position of the gas spring may be adjusted.

**⚠ WHEN THE SEAT DEPTH IS CHANGED
– THE TIPPING POINT ON THE CHAIR IS ALSO CHANGED.
THIS CAN BE ADJUSTED BY MOVING THE POSITION OF
THE REAR WHEEL. SEE SECTION 6.10 FOR DETAILS. THE ANT
TIPPERS MUST ALWAYS BE IN USE WHEN THE CHAIR IS USED.**

6.3 DEPTH ADJUSTMENT IN THE FRONT

The seat depth can be adjusted 0-10 cm in the front:

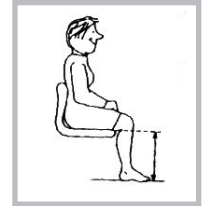
- Remove the cushion
- Loosen the screw in the adjustment bar for seat depth
- Adjust to the position wanted
- Tighten the screws and put the cushion back in the chair

⚡ 6 mm allen key.

6.4 FITTING THE HEIGHT OF THE CHAIR

Height of the chair can be changed by:

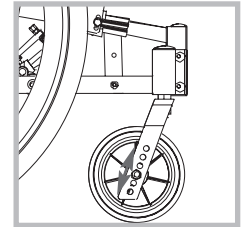
- Change size of wheels
- Change fixing points for the wheels



6.5 FRONT CASTORS

Seating height can also be changed by changing the size of the front castors or the position of the front castor in the front fork.

It is important to check the angle of the front fork. After adjusting the front castors in height. See chapter 6.7.



⚡ 2 pcs 13 mm open-end spanners.

6.6 CHANGING THE FRONT FORK

Front forks are delivered standard with quick release axis. To remove the fork, simply push the release button above the front castor.

👍 Also adjust the angle of the front fork adapter. Please refer to section 6.8 for detailed information.




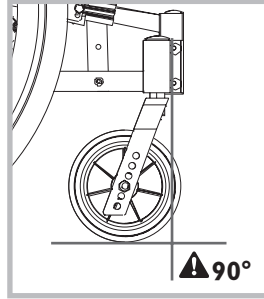
6. Adjustments

6.7 ADJUSTMENT OF ANGLE OF THE FRONT FORK ADAPTOR

Correct angle of the front fork is very important for the manoeuvring qualities of the chair.

Untighten the two screws on the inside of the frame just enough to be able to adjust the eccentric nut so that the front fork adaptor is 90° compared to the ground.

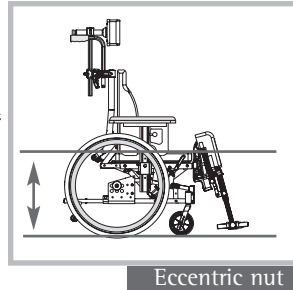
 1 pcs 5 mm Allen key, and if necessary a carpenter's level.



6.8 SEAT HEIGHT IN THE BACK

Seat height in the back can be adjusted according to table in chapter 12 depending on:

- The size of the main wheel.
Sizes available are 12", 20", 22" and 24"
- The positioning of the main wheel in the main wheel adaptor




 **WHEN THE MAIN WHEEL IS MOVED FORWARD IN THE MAIN WHEEL ADAPTER, THERE IS A HIGH RISK OF TIPPING!**


ALWAYS CHECK THE POSITION OF THE ANTI TIP.


6.9 CHANGE POSITION OF MAIN WHEEL

Release the hub bushing with centre and nuts and then adjust in wanted position.

Check the point of balance.

 2 pcs 24 mm wrench

 Normally, the main wheels should be as close as possible to the armrests. We recommend that the hub bushing sticks about 11 mm out from the nut on the inside.

 If position is moved forward or backwards, anti – tips have to be adjusted accordingly. Please see next section.

- The brakes need to be adjusted to the new position.
Please refer to section 6.11
- Adjust the angle of the front fork.
Please refer to section 6.7

6.10 ADJUSTING THE POSITION OF ANTI TIPS

Anti tips have to be adjusted if the position or size of main wheel is changed.

Change in main wheel position:

As a rule, the inner border of the black tube shall be in line with the back of the main wheel (Not on the outside).

- Unscrew the locking bracket making it move freely on the anti tip bar.
- Pull or push the anti tip to the wanted position.
- Tight the locking bracket.
- Repeat this on the other anti tip as well.

 Make sure that both anti tips are the same length.


6. Adjustments


6.1.1 ADJUSTING THE POSITION OF THE BRAKES


The brakes are freely adjustable.

- Untighten the two screws on the brake clamp and move the brake to a position about 10 mm away from the main wheel when the brakes are in an unlocked position. If available, use a brake adjuster.
- Control that the brake is positioned correct before fixing the brake clamp bolt.

 5 mm allen key.

 Be aware that some combinations of size of main wheel, brake handle and the position of the brake may lead to conflicts with the swing able foot support. Depending on the kind of tire (air filled or solid tire) used, the effect of the brakes will vary. The brakes are constructed as parking brakes and shall not be used as driving brakes.

 On some main wheel sizes, the brakes have to be moved to the lower frame tube when fixing main wheel in rear holes. Please contact your dealer to get the necessary parts.

 If the user is using the parking brakes themselves, but do not reach the handles, brake handle extenders exist as accessory. Please refer to chapter 4, accessories

6.1.2 ADJUSTING THE ARMRESTS

The armrests are height adjustable and removable.

Mounting/dismounting/adjusting the height
Place the armrest in the armrest adapter.

Find the wanted position and tighten the adjustment wheel. Dismounting the armrest, loosen the adjustment wheel and take the armrest off.



 **IF THE ARMREST WON'T GET INTO POSITION, CHECK IF THE ARMREST IS IN CONFLICT WITH THE MAIN WHEEL.**

 13 mm Allen Key. Screwdriver, slathered.

Adjusting the armrest pads.

The armrest pad can be moved up to 5 cm horizontal. For to do this loosen two screws under the armrest pad, find the wanted position and tighten the screws again.

 Cross screwdrivers

The armrest pads could be delivered in different length and widths.

6.1.3 ADJUSTING ANGLE OF RECLINE AND TILT

The angle of recline and tilt is changed by pulling the handles on the push bar. If required, it is possible to reduce the movement of the gas spring.

 **WHENEVER USING THE TILT AND RECLINE FUNCTIONS THE ANTI TIPS SHOULD BE ACTIVATED.**

7. Transportation of the wheelchair

7.1 TRANSPORTING IN CAR

Sedan size car/taxi:

The wheelchair should be placed in the trunk. If this is not possible, place the chair carefully in the back seat. Secure that the chair do not move while the car is moving. The seat belt in the back seat may be used to fasten the wheelchair.




Mini Bus:


The user of the wheelchair should sit in one of the car seats and not in the wheelchair. The wheelchair has to be fixed properly so it does not move while the car is moving. If the bus is equipped with space for wheelchairs in which the users are meant to sit, the following instruction are to be followed:



⚠ THE BUS SHOULD BE EQUIPPED WITH A POLE WITH A 3-POINT BELT AND HEADREST. (THE HEADREST ON THE WHEELCHAIR DOES NOT REPLACE THE HEADREST OF THE CAR!)

THE WHEELCHAIR SHALL BE FIXED IN THE FRAME AND NOT IN THE WHEELS. THE ANGLE ON THE FIXING BELTS SHOULD BE BETWEEN 0-30 DEGREES.

 Accessories are available for fixing the wheelchair to the car. See chapter 4 for more details.

 A symbol on the frame of the chair, shows where to attach the belts.



7.2 FOLDING FOR TRANSPORT

- Take off the headrest (look at page 15)
- Turn the anti-tippers (look at page 17)
- Turn the push handles (look at page 15)
- Take off the armrests (look at page 14)
- Take off the leg rest (look at page 14)
- Remove the back cushion (look at page 14)
- Remove the pin, which attaches the back rest to the gas spring under the chair, and push the back forward in the seat (look at page 14)
- Remove main wheels (look at page 13)
- Remove front castors (look at page 13)



8. Manoeuvring techniques, manoeuvring qualities

8.1 GENERAL

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

Companion: If the users are left alone in the wheelchair, always lock the brakes and secure that the anti tips are active.

When parking: Increase the underneath support of the wheelchair by moving the chair about 10 cm backwards making the front castors turn forward. Then lock the brakes.

8.2 MANOEUVRING TECHNIQUES - STEP UP

Users, drive up a step forwards:

This technique is only recommended for experienced wheelchair users.

- Check that the anti tip is turned up.
- Approach the step
- Move the body forward and push the push rims at the same time.

 Turn the anti tips down.

Companions, drive up a step forwards:

- Check that the anti tip is turned up.
- Angle the wheelchair backwards. This can be done by using the tip pedal. Put the front castors over the step.
- Lift in the driving handles while pushing the chair onto the step.

 Turn the anti tip down.

Users, drive up a step backwards:

This technique is only useful if the step is very low. It also depends on the height of the footplates above the ground.

- Check that the anti tip is turned up
- Maneuver the chair backwards towards the step.
- Take a hard grip at the push rims, move the body forwards at the same time and drive the chair backwards up the step.

 Turn the anti tip down.

Companions, drive up a step backwards:

- Check that the anti tip is turned up
- Drive the chair backwards towards the step
- Angle the wheelchair backwards. This can possible be done by using the tip pedal. Move the front castors slightly up in the air.
- Pull the wheelchair up the step and go backwards

 Turn the anti tip down

8. Manoeuvring techniques, manoeuvring qualities

8.3 MANOEUVRING TECHNIQUES – STEP DOWN

Companions, drive down a step forwards:

This technique is only recommended for experienced wheelchair users.

- Check that the anti tip is turned up
- Angle the wheelchair backwards. Using the tip can do this pedal.

Move 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.

Companions, drive down a step forwards:

- Check that the anti tip is turned off (turned upwards)
- Angle the wheelchair backwards. This can possibly be done by using tip pedal. Move 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 on (downwards).

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 as the body is moved forward to keep the balance of the chair.



THE RISK OF TIPPING BACKWARDS IS HIGH USING THIS METHOD. 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 wheels until the front castors have come away from the step.
- Put the front castors down to the ground.



Turn the anti tip down.

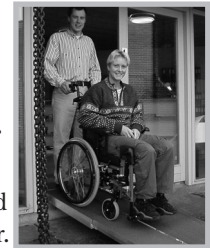
8.4 DRIVING TECHNIQUES – SLOPE

These are two important advises for driving down and up hill and avoid risk for tipping.

AVOID TURNING THE CHAIR 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 forward in order to secure the balance of the chair.



Driving downhill:


Move the upper part of the body backward to secure the balance of the chair. Control the speed of the chair by holding the push rims. Do not use the brakes.



Use gloves going downhill.

8. Manoeuvring techniques, manoeuvring qualities


8.5 DRIVING TECHNIQUES – UP STAIRS

 **ALWAYS ASK FOR ASSISTANCE. 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.
- Drive the wheelchair backwards to the first step of the stairs.
- Angle the wheelchair backwards on the main wheels. This can be done by using the tip pedal.
- Pull the wheelchair slowly up the stairs, one step at the time keeping the balance on the main wheels.
- Reaching the top of the stairs, pull the wheelchair backwards enough to 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.

 **DO NOT LIFT THE CHAIR IN THE FOOT SUPPORTS.**

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


8.6 DRIVING TECHNIQUES – DOWN STAIRS

 **ALWAYS ASK FOR ASSISTANCE. 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 stairs.
- Angle the wheelchair backwards on the main wheels. This can be done by using the tip pedal.
- Pull the wheelchair slowly up the stairs, one step at the time keeping the balance on the main wheels.
- Reaching the bottom of the stairs, 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.

 **DO NOT LIFT THE CHAIR IN THE FOOT SUPPORTS.**

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

Maintenance/Re-use

9.1 SEAT CUSHIONS

CHECK THE RECOMMENDATIONS PRINTED ON THE BACK OF THE SIT AND BACK CUSHION.

9.2 PAINT

For small damages to the surface, original surface colour can be ordered:

Silver Colour: RAL 9007 mix Item number 24202

Green Colour: NCS Blue green Item number 20510

Red Colour: Item number

Blue Colour: Item number

Yellow Colour: Item number

i A SPECIFIC RE-USE MANUAL IS AVAILABLE AT YOUR DEALER

Service intervals

What to do:	1 time/week	1 time/month	1 time/year	acc.to need	controlled	changed
Check damages/errors Ex. breakage/lacks	•					
Washing of the wheelchair	•		•			
Oil quick releases and bearing houses		•				
Washing of sit cushions and back cushion covers		•		•		
Functionality control of the anti tips		•				
Control of break adjustment		•		•		
Control of wear and tear of main wheels		•		•		
Control of spokes			•	•		

In addition the wheelchair should be washed and cleaned 1 once a week, or according to need. A service manual can be ordered from your local distributor.

10. Trouble shooting

Symptom*	Reason/Action	Reference in manual
The wheelchair is going slantwise.	• Adjust the angle of the front forks.	Ref 6.7 - page 19
	• Check that the front castors are fitted in the same height.	Ref 6.7 - page 19
	• The main wheel hubs are attached incorrectly	Ref 6.9 - page 19
	• The user is sitting very askew in the chair	
	• The power being used on the push rims are stronger on one side than the other	
The wheelchair is heavy to manoeuvre	• Clean the front forks for dirt	
	• Heavy weight over the front castors.	
	Adjust the point of balance.	Ref 6.9 - page 19
The wheelchair is hard to turn	• Control that the front castors are not tightened too hard.	
	• Adjust the angle of the front forks.	Ref 6.7 - page 19
	• Clean the front forks for dirt	
	• Heavy weight over the front castors.	
	Adjust the point of balance.	Ref 6.9 - page 19
The brakes are not functioning well	• Check the main wheels and if the distance to the brakes is correct.	
	• Adjust the brakes	Ref 6.11 - page 20
The main wheels are difficult to remove	• Clean and grease the quick release.	
	• Check that the brakes are not on.	
The front castors are vibrating	• The front forks are not fixed properly	
	• Check that the front forks are fitted in the same height.	
	• Adjust the angle of the front forks.	Ref 6.7 - page 19
	• Heavy weight over the front castors.	
	Adjust the point of balance.	Ref 6.9 - page 19
The wheelchair feels "shaky"	• Check that screws and adjustments are properly tightened.	

*The reason to some of these troubles could be wrong adjusted wheelchair and/or wrong use of the chair.

PLEASE CONTACT YOUR DEALER FOR INFORMATION ABOUT AUTHORIZED SERVICE FACILITIES THAT CAN GIVE SUPPORT IF SOLUTION IS NOT REACHED BY THIS FORM.

11. Tests and warranty

NETTI Mini The wheelchair is tested and has been approved for usage both indoors and outdoors. The chair is CE marked.

Maximum user weight: following maximum weight limit:
NETTI Mini 125 kg

TUV Product Service



The tests performed cover both functional and technical aspects of the chair. It is tested of TÜV Product Service GmbH according to EN 12183:1999

CE marking The CE mark is a proof that the chair meets the requirements of the EU 94/42 EEC directive for medical devices.



Warranty Frame:

Five years against material and/or mistakes/damages in production.
Backrest, armrest and foot support:
One year against material and/or mistakes/damages in production.
Cushions, tires and spokes: No guarantee

Damages **COVERED** by the warranty will be repaired/replaced. Please contact your dealer.

A damage **NOT COVERED** by warranty has to be covered by the user.

Extra parts/replacement of single parts

NETTI Mini is a module system. Alu Rehab carry stock of all parts and are ready to supply these. Necessary instruction for mounting will follow the parts.

Special adjustments/adaptations

Special adaptations/adjustments are defined as all adjustments that are not included in this manual.

Wheelchairs that are specially adjusted/adapted by the customer cannot keep the CE mark given by Alu Rehab A.S Norway. 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. Combinations of NETTI and other products not manufactured by Alu Rehab A.S

GENERALLY IN THESE CASES, THE CE MARK OF ALL THE PRODUCTS THAT ARE CONNECTED WILL NOT BE VALID.

However, Alu Rehab A.S has made agreements with some manufacturers about some combinations.

Assistive engines is one example. If combinations of these products are done, the CE mark will still be valid.

FOR FURTHER INFORMATION, PLEASE CONTACT YOUR DEALER OR ALU REHAB A.S NORWAY DIRECTLY.

12. Measure and weight – standard models

NETTI MINI

Seat with* Standard (adjustable)	Seat depth** standard (adjustable)	Seat height*** height (adjustable)	Back height****	Total width	Weight*****
25 cm	35 (32,5-37,5) cm	42 (39,5-47) cm	38 cm	47 cm	23,5 kg
30 cm	35 (32,5-37,5) cm	42 (39,5-47) cm	38 cm	52 cm	24,3 kg
35 cm	35 (32,5-37,5) cm	42 (39,5-47) cm	38 cm	57 cm	25,0 kg

* Seat width is the distance between the shirt guards.

** The seat depth is measured without back cushion from front of the seat plate to the backrest tubes set in standard position.

*** The seat height is measured from the ground up to the seat plate in front.

**** The back height is measured from the seat plate to the top of the velcro.

***** Total weight includes back cushion, foot support, headrest, anti tips, front castors, main wheels and push handles.

RECOMMENDED INFLATION PRESSURE ON AIR TIRES ARE: 60 – 65 PSI!

MAXIMUM USER WEIGHT, SEE TESTS AND WARRANTY, CHAPTER 11.

13. Authorised dealers:

NORWAY:

ALU REHAB A.S

Fabrikkveien 22
N-4323 SANDNES
Norway
Telephone + 47 51 68 18 88
Telefax + 47 51 68 18 89

DENMARK:

Neba A.S

Postboks 220.
2640 HEDEHUSENE
Denmark
Telephone + 45 46 59 01 77
Telefax +45 46 59 01 97

FINLAND:

Respecta Ltd

Tenholantie 12,
FI-00280 HELSINKI
Finland
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Telefax + 358 9 85 60 62 02

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Alu Rehab ApS

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Denmark
Telephone + 45 87 88 73 00
Telefax + 45 87 88 73 19

JAPAN:

LAC Healthcare Ltd

10-14 Minami-semba 2-chome
Chuo-ku OSAKA 542-0081
Japan
Telephone + 81 6 6244 0636
Telefax + 81 6 6244 0836

HONG KONG:

Licon Rehab Ltd.

Unit 11, 7th Floor
Siu Wai In, 29-33 Wing Hong Street
Cheung Sha Wan, Hong Kong
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