



WOLTURNUS

User's Manual

A-Run



English



MD

Wolturnus A/S recommends that you read this manual before using the wheelchair.

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1 Introduction

1.1 Foreword

This user guide gives the user and his assistants necessary knowledge about the design, function, use and maintenance of A-Run comfort wheelchair for children and adults from Wolturnus A/S. The guide contains information necessary for using the wheelchair safely, as well as finding possible causes of malfunction and, if possible, remedying these.

A-Run comfort wheelchair is a lightweight wheelchair in high-strength aluminum. The design is based on Wolturnus A / S active fixed-frame wheelchairs, and aims to make it easier for the user to operate the wheelchair himself. As the rear wheels and pushrims are located close to the user, the A-Run comfort wheelchair is easy to drive. With a total width of 50 cm, the A-Run comfort wheelchair is easy to maneuver through narrow doors and in small spaces. A-Run comfort wheelchair is suitable for children with a need for tip and comfort, and at the same time wish to drive the wheelchair manually.

The instructions in this manual are essential for safe and correct use of the wheelchair. Before starting to use it, it is important that both the user and helper read these instructions carefully - paying special attention to the safety instructions. Furthermore, The information provided ensures that the user gets the optimum advantage of the wheelchair's features and functions. Keep this user's manual throughout the lifetime of the wheelchair: it contains information to future questions and it contains guidelines for adjusting and adapting the chair.

This user's manual has been produced in accordance with DS EN82079-1 'Preparation of instructions for use - Structuring, content and presentation'. It is divided into sections. The heading on each page contains the title of the overall section. The footer of each page displays the page number, year, and site of origin of the user's manual. It also includes the wheelchair's model.

1.2 Term of use

The manual wheelchair is intended to provide mobility to persons who are unable to walk or who have a mobility problem. It is designed for individual use, and it can be operated either by the patient or by another person. The manual wheelchair can be used both indoors and outdoors.

Wolturnus A/S does not guarantee this product if it is used with accessories or products from manufacturers other than those specified as part of the modular system.

Use of the wheelchair for any purpose other than the aforementioned will be considered incorrect. In the event of incorrect use, the user - i.e. not the manufacturer - is liable for resulting damage to persons or property.

The wheelchair may only be used by experienced users. For personal protection and in order to ensure that the wheelchair is used safely and correctly, it is a requirement that the user and helpers receive training and instructions prior to use of the wheelchair.

To ensure that the wheelchair is used correctly it has to be operated exclusively as described in this user's manual. The user bears final responsibility for accident-free use.

1.3 Usage

This wheelchair's design makes it suitable for users who have difficulties walking or who have a mobility handicap as a result of:

- Paralysis
- Loss of limbs (leg amputation)
- Limb defects or deformities
- Damaged or defective limbs
- Other illnesses

When adapting the wheelchair for the user, the following should be taken into account:

- Body, height and weight (max. load 120 kg.)
- Physical and mental constitution
- Age
- Residential circumstances
- Surroundings

WARNING!

Risk of injury with incorrect use

To avoid the risk of getting fingers caught in the rear wheel spokes or wheel locks, and to avoid the risk of the chair tipping, children should not play with the wheelchair.

INFORMATION

The wheelchair service and repairs may only be carried out by authorised personnel trained by Wolturnus A/S. In the event of problems, please contact Wolturnus A/S

1.4 Service

In the event of questions or problems that cannot be solved using this user's manual, please contact Wolturnus A/S customer service at (+45) 9671 7170.

Wolturnus A/S strives to provide full assistance to its customers in every respect. For Wolturnus A/S contact information and a list of service locations - go to section 13 in this manual.

If the wheelchair has to be returned for repairs we can offer a temporary wheelchair for loan. For further information, please contact Wolturnus A/S.

1.5 CE compliance

This product is a medical device with CE marking in accordance with the Medical Device Regulation (MDR), EU 2017/745. This product has been classified as a class I medical device according to the classification criteria outlined in Annex VIII of the MDR. It follows that Wolturnus A/S has therefore, as manufacturer with sole liability, made a declaration of conformity in accordance with appendix IV.

1.6 Warranty and Guarantee

Wolturnus provides a two-year warranty for manufacturing defects from date of purchase. Additional, Wolturnus provides a five-year guarantee for manufacturing defects from date of purchase of the frame. Both if the device is used in accordance with this user manual.

The warranty and guarantee do not apply to normal wear and tear, nor to defects, malfunctions or failures that

result from the abuse, neglect, shocks or crashes, improper maintenance, alteration, modification, accident, or misuse, nor damage occurring during shipment, improper assembly, or assembly with non-compatible products. This include, but is not limited to, overload of the product (check product label for maximum user weight), lack of maintenance and/or service as described in the instructions of use, use of unoriginal accessories and parts, changes to the product which deviate from Wolturnus' specifications, and repairs that have been carried out before our Customer Service has been informed.

Reperation do not prolong the warranty period of the product.

1.7 Liability

Wolturnus A/S is not liable for injury or damage caused by:

- Components and parts that are not authorised by Wolturnus A/S.
- Alteration to the original surface treatment.
- Repairs or alterations to the wheelchair that are not carried out by Wolturnus A/S. All warranty repairs has to be carried out by Wolturnus A/S.
- Incorrect use of the wheelchair, or loads that exceed the construction or specified maximum for the wheelchair (in accordance with MDR).
- Circumstances in which the wheelchair is used by any party other than the original owner/user.
- Circumstances involving bad weather or dangerous situations, or in general all types of predictable negligence.
- Lack of maintenance.
- Cleaning with agents that contain acid or alkaline products, with high-pressure equipment or similar.

To keep updated about this product e.g. regarding new features, satefy notice, product recalls check www.wolturnus.dk. Contact information and overview concerning all of Wolturnus's products are available at the website - or by contacting Wolturnus A/S customer service at (+45) 9671 7170.

1.8 Returns

Before a product is returned, a warranty claim must be submitted to Wolturnus A/S using the form available here: www.wolturnus.dk/en/complaints/

In the event that the wheelchair has to be returned to the supplier or to Wolturnus A/S, e.g. for repairs, it must be transported in its original packaging for optimum protection. It follows that Wolturnus A/S recommends that the original packaging is retained throughout the lifetime of the wheelchair.

1.9 Serious incidents

Wolturnus shall be informed (see contact details on the last page) of all serious incidents which are defined as any incident that directly or indirectly led, might have led or might lead to any of the following:

- the death of a patient, user or other person
- the temporary or permanent serious deterioration of a patient's, user's or other person's state of health
- a serious public health threat

2 Safety

2.1 Symbols

WARNING!

Warning about risk of serious accident or injury

CAUTION!

Warning about risk of accident or injury

NOTICE

Warning about risk of technical damage

INFORMATION

Operational and service information

2.2 Standards and Directives

All safety information in this user's manual is based on applicable national laws and regulations in the EU. For other countries, a declaration of conformity with applicable laws and national regulations is required.

In addition to the safety instructions contained in this user's manual, the user must be familiar with and must comply with applicable regulations from professional associations, concerning accident prevention and regarding environmental protection. All information contained in this user's manual must be complied at all times without limitations. The wheelchair is constructed in accordance with applicable regulations. The wheelchair safety level is approved by CE certification and a declaration of conformity.

2.3 General Safety Instructions

- A-Run comfort wheelchair must only be used as described in this manual.
- A-Run comfort wheelchair may only be used by people instructed in the use of the wheelchair, and must not be used by anyone other than the user.
- A-Run comfort wheelchair may only be used for transporting one person.
- For safety reasons, it is recommended that the user always wears a tightened hip belt, which may be supplied by Wolturnus A/S as an accessory.
- All safety instructions contained in this manual and all additional relevant documents must be kept throughout the lifetime of the chair and complied with. The user manual must be accessible to the user at all times.
- The seat and seat covers on the wheelchair are flame retardant, but can be ignited. Therefore, extreme caution should be exercised in the vicinity of flammable objects and fire - including ignited cigarettes and the like.
- When driving on hills and slopes, it is advised to avoid all obstacles.
- A-Run comfort wheelchair must not be used on stairs.
- Avoid getting into or out of the wheelchair on slopes or hills.
- The hip belt (accessory) is intended to provide additional stabilization of the user. The hip belt part must never be used as part of the clamp when transporting the user in a vehicle.

2.4 Safety Requirements for Transport, Assembly and Storage

- Only suitable lifting gear may be used when transporting the wheelchair.
- The A-Run comfort wheelchair must be secured in accordance with the required requirements for transporting aids. Attachment must only be done with the attached fixing eyes (see section 5). Only in special

cases and only when using safety and fastening systems provided by Woltornus, may the A-Run comfort wheelchair be used as a seat in motor vehicles meant for the disabled.

- Always activate the brakes when being transported by lifting platforms in buses, trains or other similar situations where the wheelchair must be stationary.
- As far as possible, the wheelchair must be placed in the middle of the platform and all components such as tip fuses or the like must be free from areas where there is a risk of squeezing during transport.
- When adjustments or modifications are made, tighten all moveable parts such as screws and nuts according to the regulations.
- We recommend that, when transported by the vehicle, the user is transferred to the vehicle's fully-installed seats as far as possible and tightened with the vehicle's own safety devices. If this is not possible and the A-Run comfort wheelchair must be used as a seat by the user during transport, approved attachment anchors must be fitted in the vehicle.
- The seat position must not be changed during transport, as this may cause the wheelchair to fall over.

2.5 Safety Requirements in Usage

- The user and his assistants are always obliged to make sure that the wheelchair and its safety features are in good and safe condition before being used.
- A-Run comfort wheelchair must be inspected at least once a year for malfunction and driving safety by a specialist authorized by Woltornus A/S.
- If any malfunctions, defects or other conditions that can lead to personal injury are observed, the wheelchair must be taken out of service immediately.
- Before using the A-Run comfort wheelchair, all necessary mechanical adjustments (setting of seat, accessories, etc.) must be performed in accordance with the user's individual requirements and abilities. These settings may only be made by specialists authorized by Woltornus A/S.
- The maximum load for the A-Run comfort wheelchair is 120 kg. This load must not be exceeded.
- The tire must be checked visually before use to ensure that the tire thickness is sufficient and that the tires are fitted with the correct tire pressure. Correct tire pressure can be read on the side of the tire.
- When the wheelchair is used on public roads, the user is subject to the applicable traffic rules.
- It is advised not to use the wheelchair on slippery surfaces (such as ice) and on very rough surfaces (like gravel and pebble).
- When getting in and out of the wheelchair, the user's full weight should not be placed on the footrest or armrests. These cannot bear full body weight.
- If the wheelchair overturns, there is a risk of personal injury! Before driving on slopes or crossing obstacles, a tilted seat should be returned to the basic position and the backrest should be brought to normal upright position.
- Directional shift must only be done at reduced speed.
- When lifting the wheelchair do only grasp the frame. Never the footrest or armrest to lift the wheelchair.
- The wheelchair must not be exposed to extreme temperatures or high or chlorine-based humidity (eg sauna or swimming pool).
- The surface temperature of the wheelchair may rise if it is exposed to high heat, such as strong sunlight for an extended period of time. Likewise, there is a risk of undercooling in extreme cold.

2.6 User requirements

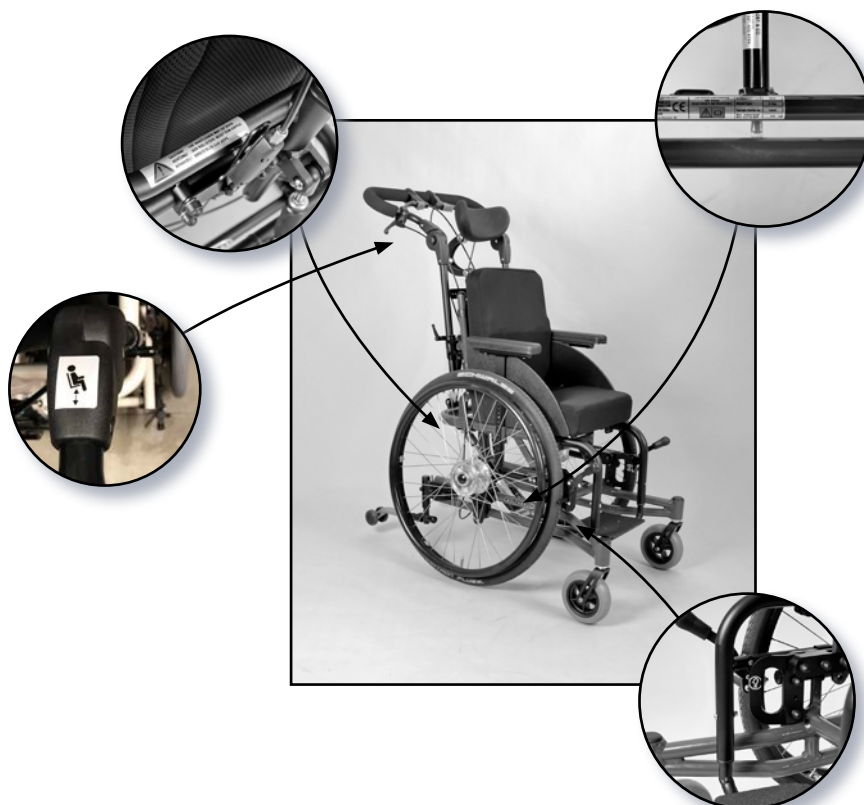
- Before starting to use the wheelchair, the user and any helpers must read the user's manual thoroughly and be familiar with its contents.
- The wheelchair must only be used by trained users. To ensure this, the user and any helpers has to receive instruction in use of the chair from Woltornus-authorized specialists.

2.7 Type Labels

A type label is attached to the wheelchair. The type label includes the following information:

	Manufacturer
	Serial number
	Year and month of manufacture
	Read the user's manual before using the wheelchair
	Caution
	Medical Device
	Declaration of conformity, Medical Device Regulation (MDR), EU 2017/745
	Unique Device Identifier (UDI)
	Handle to adjust backrest angle
	Handle to adjust seat tilt

The type label is placed on the cross tube under the seat facing forward. See the manual for fixation of wheelchair in motorvehicles for information about car fixation and safety.



3 Product description

A-Run comfort wheelchair is ideal for users who need seat with tilt and high seat comfort, while simultaneously driving the wheelchair manually. The narrow design, with a total width of 50 cm, makes it possible to maneuver through narrow doors and small spaces. A-Run comfort wheelchair can be used both indoors and outdoors.

With the many adjustment, combination and feature options, it is easy to customize the A-Run comfort wheelchair for the individual user and its changing needs. These are described in section 6. A-Run comfort wheelchair can also be used with custom made cushions and back features, and the frame is also compatible with cushions and backfeatures from other brands. The modular design of the A-Run comfort wheelchair makes it possible to retrofit and purchase accessories and features, such as body supports, spoke protection with special prints and different armrests. A number of the various options are described in section 7. A-Run comfort wheelchair is approved for fastening in vehicles and is easy to transport. Read more about fastening in vehicles and transporting A-Run comfort wheelchair in section 5. It is possible to retrofit the auxiliary engine on the A-Run comfort wheelchair. For more information, contact Wolturnus A/S Customer Service on phone (+45) 9671 7170.

Wolturnus design and produce the devices in Wolturnus' facilities in Nibe, Denmark. The devices are made by hand, and therefore minor differences in shape, size, or color can occur. This is a result of the handmade process, which is what makes Wolturnus unique and possible to produce devices that fit the user's needs and wishes, and it will not affect the overall aesthetic of the device or its ability to be used as intended. Welds are not removed.

3.1 Unique Device Identifier (UDI)

For manual wheelchairs manufactured by Wolturnus A/S, the Basic UDI-DI is 57138250017G The UDI-DI is the Global Trade Item Number (GTIN) identified by the prefix (01) on the type label. The UDI-PI is composed of date of manufacture, identified by the prefix (11), and the serial number which is identified by the prefix (21), both on the type label.



4 Delivery and preparation for use

4.1 Delivery

Delivery covers:

- A-Run comfort wheelchair with main components
- User's guide
- Selected accessories (see section 7)

INFORMATION

The supplied accessories depend on the product configuration selected for the wheelchair delivered.

CAUTION!

The wheelchair may tip over. Wolturnus recommends to use the anti-tip device at all times.

A-Run comfort wheelchair is ready for use when supplied by Wolturnus A/S. All settings refer to the submitted order or will be adjusted at the location of the dealer. A-Run comfort wheelchair is tailored to the user's personal wishes and needs.

The wheelchair functions can be tested by following the instructions in section 6.

Any malfunctions are described in section 9.

4.2 Preparation for use

Before using the A-Run comfort wheelchair make sure that the chair is complete (Fig. 3) and that all functions work. A-Run comfort wheelchair is supplied by Wolturnus A / S.

Main components (Fig.3):

1. Frame with backrest and seat
2. Rear wheel
3. Casters
4. Sideguards with or without armlæn
5. Brakes
6. Footrest
7. Necksupport
8. Pushing handles

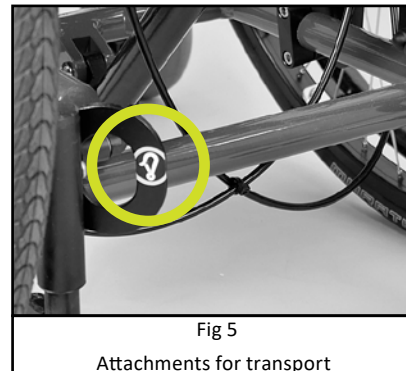
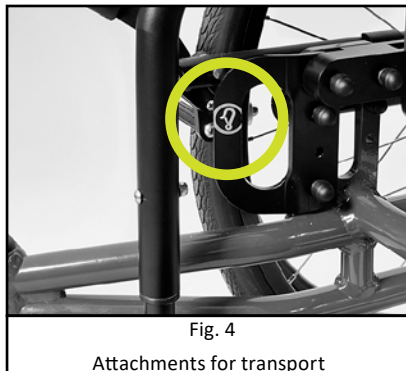


Fig. 3 Main components

5 Transport and storage

5.1 Transport

When transporting A-Run comfort wheelchair, tighten it onto the four eyelets (Fig. 4-5) with fastening straps. When transporting the A-Run comfort wheelchair without the user, remove the wheel drive wheel (see section 6.12) and the pushbutton can be adjusted at both height and angle (see section 6.6). During storage, keep the A-Run comfort wheelchair in a dry place and do not expose it to moisture.



WARNING!

There is a risk of personal injury in the event of incorrect use in vehicles.

The seats in motor vehicles combined with the associated fastening systems (seat belts) provide passengers with ideal protection in case of an accident. Only in special cases and only when using safety and fastening systems provided by Wolturnus A/S, may the A-Run comfort wheelchair be used as a seat in a motorvehicle for the disabled. Headrest approved by Wolturnus A/S must be used safely by the user when the clamping system is used in conjunction with passenger transport.

CAUTION!

There is a risk of injury if the fixing mechanisms are not locked properly. Secure the wheelchair during transport by tightening the fastening straps as directed.

INFORMATION

Read the user manual car-fixation, for information about safety and labels for fixation in vehicles, before using the chair in a motor vehicle.

5.2 Transfers

Method of transfer to and from the chair is individual as best suits the user. The most common method is transfer from the side or front.

The following description is based on transfer without third-party help and from one wheelchair to another.

Forward transfer is best suited if double-folding footrest is mounted on the chair (Dalton footrest). Pulling up the footrests allows the user to step in or out.

CAUTION!

Risk of damage due to overload.

When getting in and out of the chair, the user must not place full body weight on the footrest or armrests.

CAUTION!

The wheel locks must be applied during transfer.

CAUTION!

Vulnerability (Dalton model). Make sure your fingers do not get into the danger area when the footrests are popped out or in. The footrests must only be taken out of their hold when the wheelchair is to be transported.

6 Adjustment and set-up

6.1 Adjustable features

CAUTION!

Risk of accident due to loose screws

After loosening threaded screws, they must be replaced with new screws or secured again with a medium-strength thread paste (e.g. EuroLock A24.20). After making adjustments to the wheelchair, screws and nuts must be tightened correctly.

The A-Run wheelchair can be adjusted in various ways.

When delivered, the height, width and angle of the seat and the back have been positioned in accordance with the customer's order as received by Wolturnus A/S.

The Following is Adjustable By the User:

- Back angle and angle
- Placement of necksupport
- Push handles
- Seat height, depth and angle
- Armrest height
- Placement of balancepoint
- Footrest height and angle
- Anti-tip device height

NOTICE

Damaged tools or incorrect use of tools can result in injury or in damage to the chair.

6.2 Tools

The following tools necessary for making adjustments in this chapter(Fig. 6):

1. 3 mm Allen key
2. 4 mm Allen key
3. 5 mm Allen key
4. 8 mm single-head wrench
5. 10 mm single-head wrench
6. 13 mm single-head wrench
7. A bubble level Torque wrench
8. Measuring tape
9. Loctite or similar

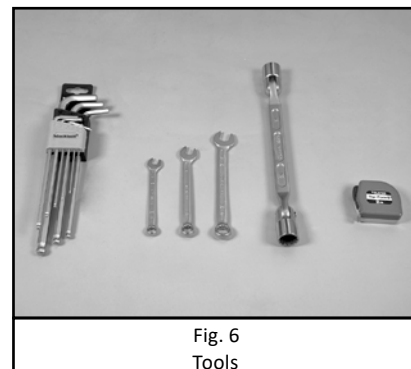
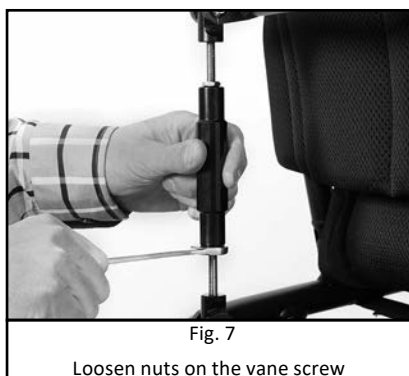


Fig. 6
Tools

6.3 Back angle adjustment, standard

The angle of the standard back is adjusted with a threaded screw. When adjusting the slope of the back:

- Extend the anti-tip device. This will ensure that the wheelchair does not tip over if the back is angled too far backwards.
- Loosen and remove the bottom bolt that secures the back and the locking bracket (Fig. 17).
- The angle can now be adjusted by using and rotating the wrench one way or another as shown on figure 7.
- After adjusting the angle, make sure to retighten both top and bottom bolts.



WARNING!

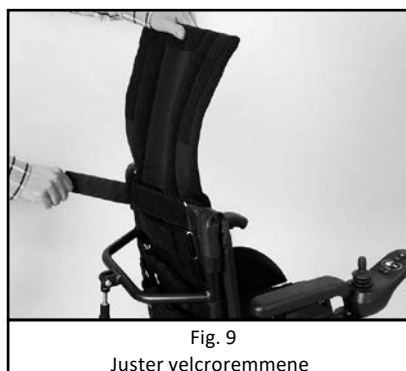
When adjusting the back angle, the center of gravity of the wheelchair can be displaced and the risk of tilting backwards may increase. After adjusting the back angle, check the center of gravity and adjust if necessary before using the wheelchair (see section 6.12).

6.4 Adjustment of back depth and shape

The shape of the back is adapted to the individual needs of support and balance and can be adjusted with velcro straps behind the backrest.

- Fold the back of the back cover up so the velcro straps are visible.
- Loosen or tighten the individual straps so that the shape of the back is adjusted to the needs of the user (Fig. 9).
- Fold the backrest back and fasten it on the straps.

Adjustment of the shape and depth of the backrest is of major importance to the users, to get the optimal benefits from the wheelchair. Wolturnus A/S recommends that this option be initially performed with the assistance of a Wolturnus A/S consultant or the user's therapist.



WARNING!

When adjusting the straps in the seat and / or backrests, the center of gravity of the wheelchair can be displaced and the risk of tilting backwards may increase. After adjusting the seat and / or seat cover, check the center of gravity and adjust if necessary before using the wheelchair (see section 6.12).

6.5 Adjustment of neck support

The headrest position is adjusted using a 10 mm wrench. Loosen the bolts that make up the pivot points of the joints (Fig. 10). After adjustment, tighten the bolts again.

Adjusting the actual neck itself is done by loosening the three bolts on the ball bracket with a 3 mm Allen key (Fig. 11). Then turn the neck pillow to the desired position. Tighten the screws again when the setting is as desired.



Fig. 10
Adjustment of neck position



Fig 11
Adjustment of headrest

6.6 Adjustment of push handles

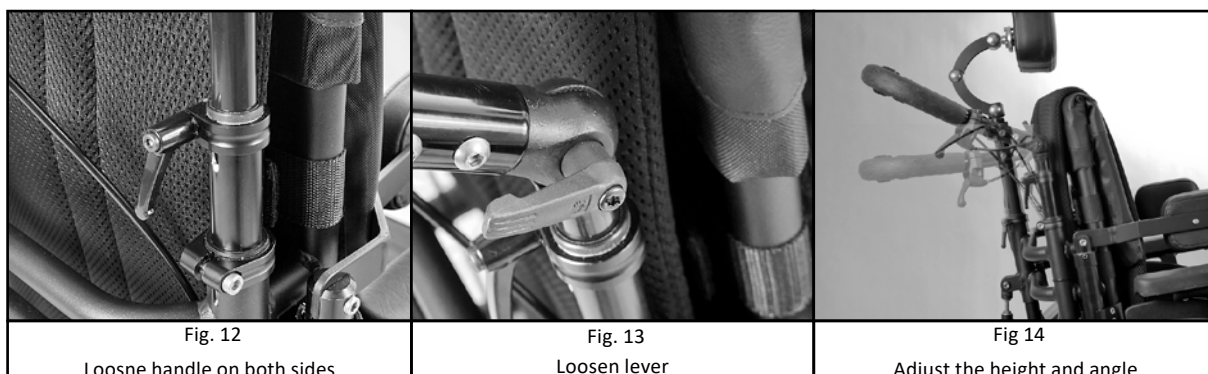
To achieve an ergonomic and comfortable position for the companion, the push handles can be adjusted at both the height and the angle.

Height adjustment of push handles:

- Loosen the handle on both sides (Fig. 12).
- Adjust the push handles to the desired height (Fig. 14).
- While holding the push handles in position, tighten the handle on both sides.

Adjust the angle of the push handles:

- Loosen the handle on both sides (Fig. 13).
- Adjust the push handles to the desired angle (Fig. 14).
- While holding the push handles in position, tighten the handle to both sides.



6.7 Adjustment of seat height

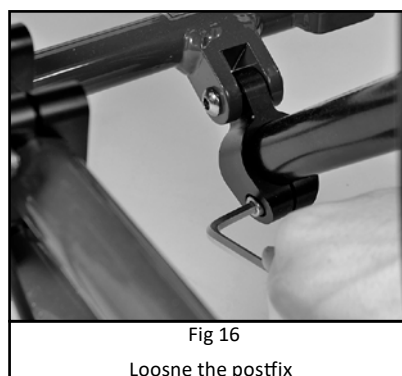
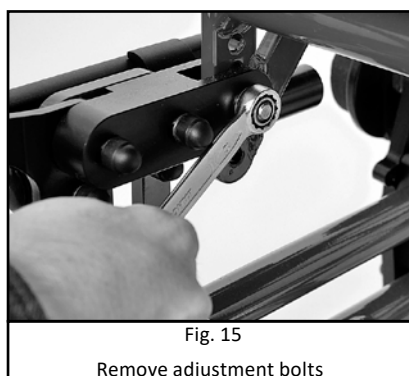
The seat height can be adjusted in 5 different heights with a 15 mm gap between each. The seat height adjustment is done by two turns; First adjust the front part of the seat, and then adjust the rear part.

Seat height adjustment - front part:

- The adjustment bolt is removed on both sides with two 13 mm wrenches (Fig. 15).
- Adjust the seat up or down as needed.
- Once the desired height is found, fasten the adjustment bolts again.

After the height adjustment of the front part of the seat, the rear part must be adjusted.

- Loosen the postfix of one (or both, if fitted) gas damping with a 5 mm Allen key (Figure 16).
- Adjust the seat by lifting the push handle until the seat is horizontal or in the desired position.
- While holding the seat in the desired position, tighten the postfix to lock seat position.



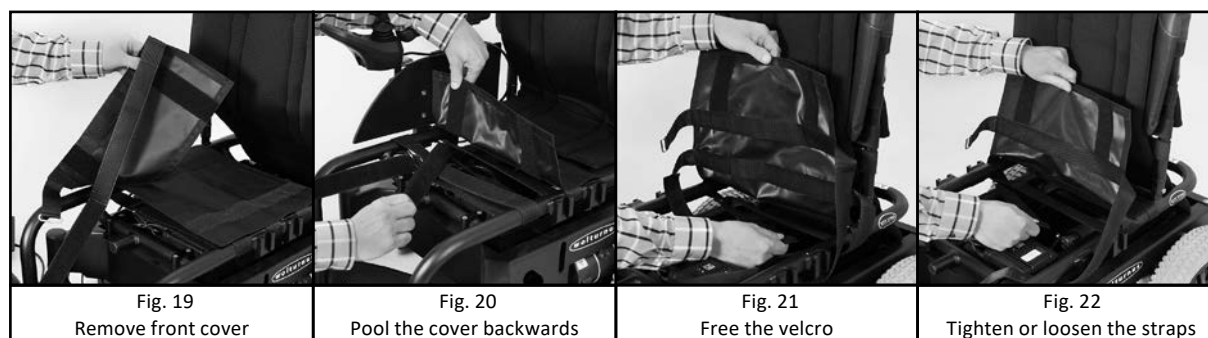
6.8 Adjusting seat length

- Remove the seat pad and loosen the Velcro, which holds the front and rear part of the seat bed together (Fig. 17).
- Slide or pull the front part to the desired position (Fig. 18).
- The front part of the seat pocket is fixed on the rear part, after which the pad can be mounted.



6.9 Adjustment of seat depth and shape

- Remove the seat cover and the front seat cover (Fig. 19).
- Pull the rear seat backwards so that the velcro straps on the underside of the seat are available (Fig. 20).
- Release the velcro straps (Fig. 21) and tighten or loosen them before reattaching (Fig. 22).
- Fit the front seat cover and seat cover.



NOTICE

Note that for some users it is advisable that the straps are tighter to the front edge of the seat, rather than to the rear edge. This relieves the backrest's forward pressure on the lower body and provides a better positioning of the hip. Wolturnus A/S recommends that this option be performed with the help of a Wolturnus A/S consultant or the user's therapist.

WARNING!

When adjusting the straps in the seat and/or backrests, the center of gravity of the wheelchair can be displaced and the risk of tilting backwards may increase. After adjusting the seat and/or seat cover, check the center of gravity and adjust if necessary before using the wheelchair (see section 6.12).

6.10 Seat angle adjustment, standard

The seat can be angled from 0 to 30 degrees using one or two gas dampers.

- Turn off antitip. This ensures that the chair does not tip backwards if the seat is angled too much.
- The angle of the seat can now be adjusted by holding the release lever (Fig. 23) at the bottom while lifting up or pushing down on the push handle (Fig. 24).
- When the desired angle has been found, release the lever to lock its position.

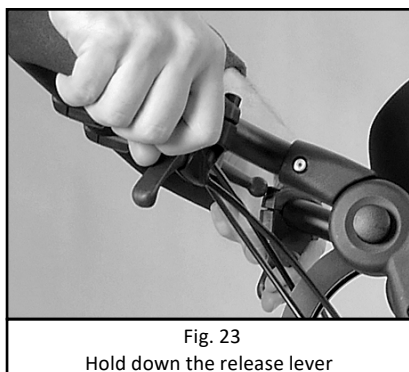


Fig. 23
Hold down the release lever



Fig. 24
Adjust seat angles

WARNING!

When adjusting the seat angle, the center of gravity of the wheelchair can be displaced and the risk of tilting backwards can be increased. After adjusting the seat angle, check the center of gravity and adjust if necessary before using the wheelchair (see section 6.12).

WARNING!

Risk of crushing hazard. Avoid holding the gas damper while adjusting the seat angle. This may cause your fingers to clamp.

6.11 Height adjustment of armrest

- Remove the armrest (Fig. 25).
- Unscrew the sideguard from the balustrade with a 4 mm Allen key (Fig. 26).
- Fit the sideguard on the balustrade so that the armrest reaches the desired height.
- Fit the armrest to the chair.

Repeat the procedure if the desired armrest height is not achieved.



Fig. 25
Remove armrest

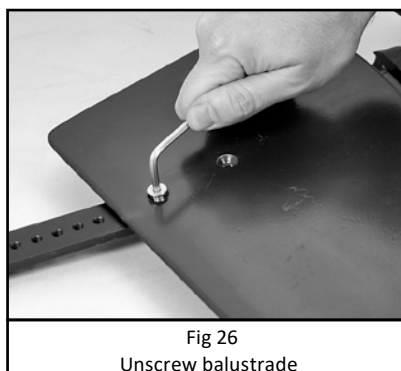


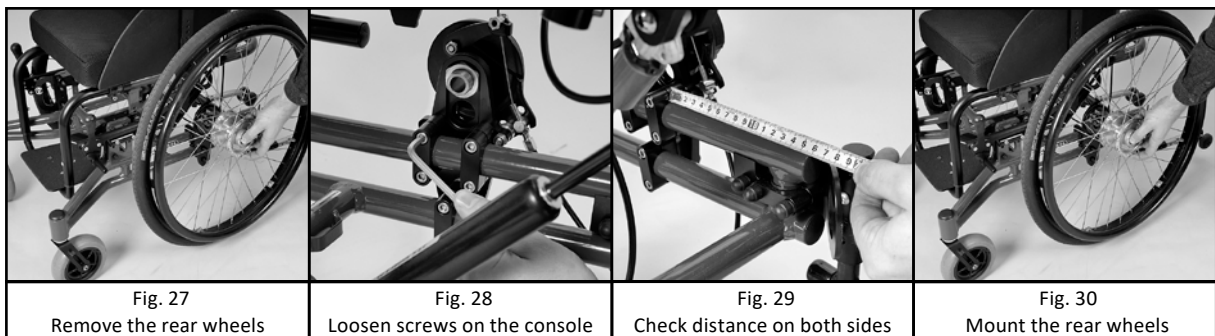
Fig. 26
Unscrew balustrade

6.12 Adjustment of balancepoint

To change the wheelchair balancepoint and stability, the rear axle can be adjusted back and forth. When moving the rear axle and hence the rear wheels, the casters are relieved and it is easier to tilt the wheelchair. This do make the wheelchair easier to maneuver for the advanced user. When moving backwards, the wheelchair becomes more difficult to tip up onto the drive wheels. The distance between casters and rear wheels does increase the driving stability.

Adjusting the rear axle:

- Remove the rear wheel with Quick-release (Fig. 27).
- Move the brakes forward so that they do not get in the way when the rear wheel is to be reinstalled. After adjusting the rear axle, the brakes must be adjusted to fit properly before use (see section 6.15.1).
- Loosen the six screws on both rear axle brackets with a 5 mm Allen key sufficient to allow the rear axle with bracket to move smoothly back and forth on the frame (Fig. 28).
- When the desired position is found, make sure the distance is the same on both sides (Fig. 29).
- Tighten the screws again with a torque wrench with 5 mm unbraco (Tightening torque 10 Nm / 7.4 ft.lbf / 88 in.lbf).
- Fit the rear wheels and adjust the brakes as described under 6.15.1 (Fig. 30). Please note that the Quick Release is locked correctly. Quick release will give a 'click' when it is locked correctly.



CAUTION!

For safety reasons, the wheelchair is delivered as a starting point with the rear axle located far back. Unauthorized users should not change this before they are familiar with using the wheelchair.

CAUTION!

To prevent the wheelchair from accidentally tipping backwards, it is recommended that the user always have another person to stand behind the wheelchair when a new setting of the balance point is being tested.

6.13 Adjusting the footrest

A-Run comfort wheelchair can be provided with either foot support (model Tukan) or double-folding footrest (model Dalton). Both models can be angularly adjusted and height adjustable in jumps of 15 mm.

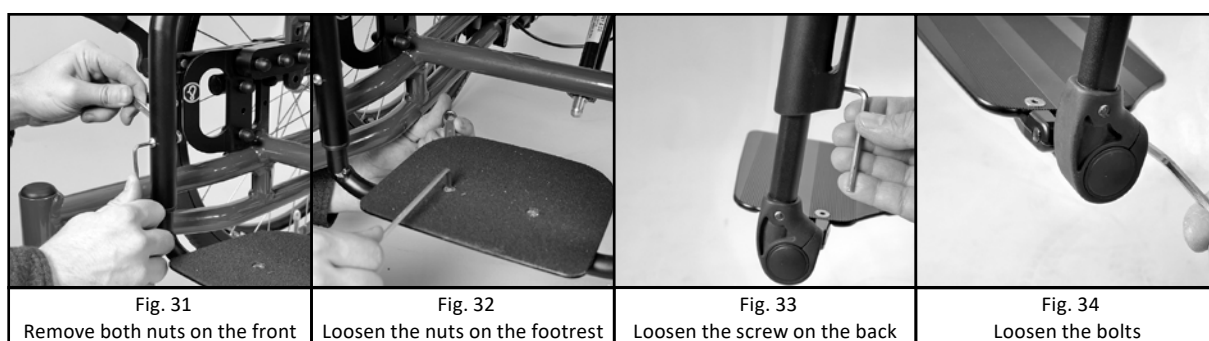
Height adjustment of footrest and Angle adjustment of footrest

Model Tukan:

- Loosen and remove both nuts on the back of the frame using a 3 mm Allen key and an 8 mm wrench (Fig. 31).
- Remove the cranes so that the footrest can slide freely in the front windows.
- Raise or lower the footrest to the desired height so that the holes in the footrest and front frame fit together. Make sure that the footrest is not crooked.
- Fit the brackets and nuts and tighten them (Tightening torque 4 Nm / 3.0 ft.lbf / 35 in.lbf). If the nuts are tightened so much, the frame may bend.
- Loosen the nuts on the mounting bracket on the underside of the footplate with a 4 mm Allen key and 10 mm wrench (Figure 32).
- Turn the footplate to the desired angle.
- Tighten the nuts.

Model Dalton:

- Loosen the screw on the back with a 5 mm Allen key (Fig. 33).
- Raise or lower the footrests to the desired height. Be aware that the footrests are in the same or suiting positions
- Fit the brackets and tighten them (Tightening torque 4 Nm / 3.0 ft.lbf / 35 in.lbf).
- Loosen unbracobolten on the round part on the back of the footrest with a 5 mm Allen key (Fig. 34).
- Turn the footrest to the desired angle.
- Tighten the bolts



6.14 Adjustment of tip protection

The anti-tip system prevents the wheelchair from tipping backwards. When making adjustments that may affect the balance point and weight distribution of the wheelchair, make sure that the anti-tip system is active. The anti-tip system can be adjusted in length and has two options for adjusting the angle. Adjustment of the system must always be done, when the wheelchair is on a flat and horizontal surface.

With the default setting of the anti-tip system, measure vertically from the surface of which the chair is placed and up to the underside of the anti-tip wheel (Fig. 35). This target must be 60 mm by default.

To achieve the desired position of the anti-tip, one or more of the following settings can be made:

Adjusting the length:

- Loosen and remove the bolt and disc with a 4 mm Allen key (Fig. 36).
- Select one of the two length positions (Fig. 37).
- Place two drops of Loctite on the bolt thread.
- Insert the bolt and tighten it.

Adjusting angle 1, of tip guard arm:

- Loosen and remove the bolt using a 4 mm Allen key (Fig. 38).
- Adjust the tip protection angle in one of three possible positions (Fig. 39).
- Insert the bolt and tighten it.

Adjusting angle 2, at rear fork:

- Loosen and remove the three bolts with a 5 mm Allen key (Fig. 40).
- Choose one of the three positions
- Reapply the bolt and tighten them

CAUTION!

When the wheelchair is equipped with two anti-tip wheels, it is important that they have the same length and angle. Unless both anti-tip wheels are the same, the wheelchair will come out of balance with any backwards directed tipping.



Fig. 35
measuring from floor to anti-tip

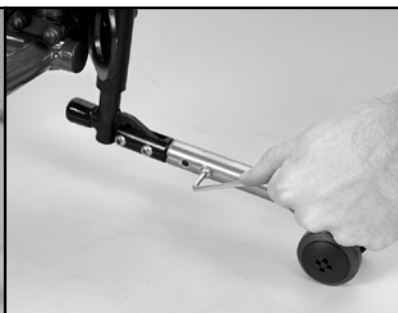


Fig. 36
Remove bolts



Fig. 37
Choose position



Fig. 38
Loosen bolt



Fig. 39
Adjust guard arm



Fig. 40
Remove the three bolts

6.15 Adjusting the brakes

A-Run comfort wheelchair comes with two sets of brakes; Accompanying brakes, which are activated by using the lever on the push handle. The push brakes are activated by applying a forward pressure and can be operated by the user himself. Both brake kits can be adjusted as needed.

6.15.1 Adjusting the pushbrake

If the balance point and thus the position of the rear wheels change or if the wheel size is changed, the brakes must be moved to insure efficient braking. The brakes must be moved forward before changing to the balance point or rear wheels. After adjusting the balance point or performing wheel shift, adjust the brakes correctly.

Before adjusting the balancepoint or wheelchange:

- Loosen the two nuts in the bracket that secure the brake to the front frame with a 5 mm Allen key (Fig. 41).
- Move the brake forward so that they are not in the way.

After adjusting the balancepoint or wheelchange:

- Loosen brakes.
- Move them back the brakes so that the brake pad, when activated, brakes the tire sufficiently so that the seat is safely securely. As a rule, the brake pad must push down on the cover at least 5 mm (Fig. 42).
- Tighten the bolts.

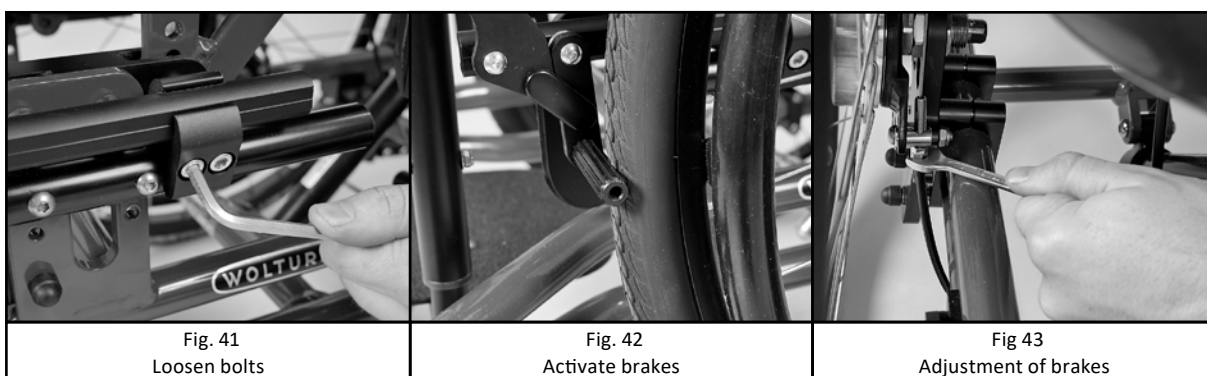
It is important that the right and left brake are the same. Make sure the brakes apply the same amount of force, to ensure an equal and safe braking system.

6.15.2 Adjusting the pushbrake

Accompaniment brakes are activated by a trigger on the push handle, ensure that an attendant can brake the wheelchair. The push handle brakes is adjusted at the rear wheel.

With a 10 mm wrench the brake can be loosened or strained as needed.

- Loosen the nut by the brake on the drive wheel and adjust in or out. (Fig. 43).
- Tighten the nut again after adjustment.



WARNING!

Make sure that the tires used have the correct air pressure before re-use the wheelchair. The maximum permissible air pressure is indicated on the deck, but should always be at least 3.5 bar (350 kPa) on the rear wheels. Knee brakes, like push brakes, are only effective at a sufficiently high air pressure and the correct setting (in locked position, the brake pad should push the tire 5 mm in).

7 Accessories and equipment

A wide range of accessories and equipment is available for Wolturnus active wheelchairs. The most popular accessories are described in this section.

7.1 Plated back

As an alternative, A-Run comfort wheelchair can be obtained with metal plates instead of standard strap hook back with Velcro straps. The plate back consists of two plates, where it is possible to adjust the height of the back by moving one of the plates.

7.2 Backrest with gas damper

The gas-operated back is controlled by a release handle and allows the backrest to be easily changed.

Adjusting the back angle with gas damper:

- Turn on anti-tip. This ensures that the wheelchair doesn't tip backwards if the back is angled too far back.
- The backrest can now be adjusted up or down by holding the release lever (Fig. 44) at the bottom while lifting or pushing down the pushhandle (Fig. 45).
- When the desired setting is reached release the lever to lock the position of the back.



Fig. 44
Release lever



Fig 45
Adjust back angle

WARNING!

When adjusting the back angle, the center of gravity of the wheelchair can be displaced and the risk of tilting backwards may increase. After adjusting the back angle, check the center of gravity and adjust if necessary before using the wheelchair (see section 6.12).

7.3 ILSA variable body support

ILSA is developed by Wolturnus A/S and is a combined ergonomically optimized back and body support. It can be used to solve a wide range of individual positioning needs.

ILSA is distinguished by the fact that the upper part of the back can be adjusted in depth, width and height, and at the same time acts as side / body support. The right and left sides can be adjusted steplessly independently of each other, and an asymmetric adaptation is therefore possible.

Adaptation of ILSA back and body support:

- Loosen the console with a 3 mm Allen key (or hand grip if equipped) until the ILSA tube can move freely (Fig. 46).
- Adjust the height and angle of the ILSA until the desired setting is reached.
- Secure the postfix
- Then adjust the velcro straps according to the same principle as with a standard backrest, as described in section 6.4.

**7.4 Plated seat**

A-Run comfort wheelchair can be supplied with a plate seat instead of the standard strap seat with Velcro straps. You can choose between single sheet or double plate for extra length adjustment

Single-seat seat adjustment:

- Remove the seat cushion.
- Loosen the four straps with a 4 mm Allen key and a 10 mm wrench
- Push or pull the seat plate to the desired position.
- Tighten the straps.
- Fit the seat cushion.

Adjusting doubled plated seat:

With the extra plate, the possibility of length adjustment increases beyond the adjustment given by the single plate.

- Remove the seat cushion.
- Loosen the screws that fix the seat plate, with a 4 mm Allen key and 10 mm wrench.
- Push or pull the seat plate to the desired position.
- Tighten the screws.
- Fit the seat cushion.

7.5 Seat flip with electric actuator

The seat angle can be selected by an electric actuator instead of the standard gas damper.

When adjusting the seat angle:

- Turn on the anti-tip. This ensures that the chair does not tip backwards if the seat is angled too much.
- The seat is adjusted up and down with the remote control.

7.6 Push handles

A-Run comfort wheelchair is delivered as standard with angle adjustable push handle. In addition, you can choose between:

- Straight push handle with either an adjustable or non adjustable angle feature
- Drop-shaped fixed-angle push handle

7.7 Tipping pedal

Tipping pedal makes it easier for a companions to tilt the wheelchair when driving over obstacles like steps and curb. Tighten the pedal while tilting the chair backwards using the push handles.

7.8 Sideguards

Sideguards ensure that the wearer's clothes are kept clear of the rear wheels and prevent the clothes from being soiled by splashes and dirt from the wheels. Sideguards are available in several varieties, including ABS, Dibond and Aluminum, and can be fastened in different ways as needed. Wolturnus A/S archives a template for specially crafted page pieces, which can subsequently be ordered.

7.9 Sideguards with height adjustable armrests

Sideguards are also available with height adjustable armrests with different pillow variants. For instructions on adjusting the armrest height see section 6.11.

7.10 Insulation against thermal bridge to sideguards

Sideguards can be covered with neoprene to insulate against the cold. Especially suitable for aluminum sideguards, as aluminum is heat conductive. Neoprene can either be glued or fastened with Velcro. Templates for specially crafted page pieces are filed at Wolturnus A/S, which can subsequently be delivered properly adapted to neoprene covers.

7.11 Body supports

Body supports helps to support the user's upper body and is available in different variants, which allows for personal adaptation. Exceptional pivotable body support that can turned to the back when the user walks in or out of the wheelchair, or height adjustable body supports that can be adapted to the user's changing needs (Figure 47-48). The different body supports and pillow cases each have their advantages and features.

The choice of body supports is of great importance to the user's comfort and ergonomics. Wolturnus A/S recommends that the choice of body support be performed with the help of a Wolturnus A/S consultant or the user's therapist.



Fig. 47
Body support - foldable

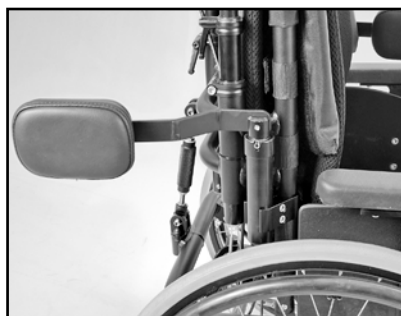


Fig 48
Body support - foldable

7.12 Frame protection

Frame protectors are designed to protect the front and top of the frame from bumps and scratches. The frames are folded tight around the frame and secured using the sealed Velcro strap (Fig. 49).



Fig. 49
Frame protection

7.13 Cushions

Seat cushions are available in different models and can be ordered in different sizes and thickness. For more information, see Wolturnus A/S seepage <http://wolturnus.dk/en/products/accessories/seat-cushions/>

7.14 Head restraints

Headrest pillows are available in different sizes and designs. For adjusting the headrest and neck pillow see section 6.5.

7.15 Special back covers

Backpacks can be ordered in various special versions, including leather reinforcements on the corners, for better resistance to wear and tear. For more information, contact Wolturnus A/S Customer Service on phone (+45) 9671 7170.

7.16 Single-handed operation

Single-handed operation makes it possible to operate the rear wheels with only one hand. For more information, contact Wolturnus A/S Customer Service on phone (+45) 9671 7170.

7.17 Brakes

There is a selection of different types of user and companion brakes. For more information, contact Woltturnus A/S Customer Service on phone (+45) 9671 7170.

7.18 Spoke protectors

Spoke protectors prevent fingers from getting caught in the spokes during propulsion. A wide range of spoke protectors is available with a choice of neutral or patterned designs.

7.19 Upgrading rear wheels, push rims and tyres

The rear wheels and rim can be upgraded to stronger, technically more advanced models; e.g. a Spinergy rear wheel and titanium push rim or Schwalbe Marathon or MTB puncture-proof tyres.

7.20 Quick Release axle with tetra-grip for rear wheels

The Quick Release mechanism with tetra-grip makes it easier for, for example, tetraplegics to release the Quick Release and remove the rear wheels.

7.21 Quick Release axle for castors

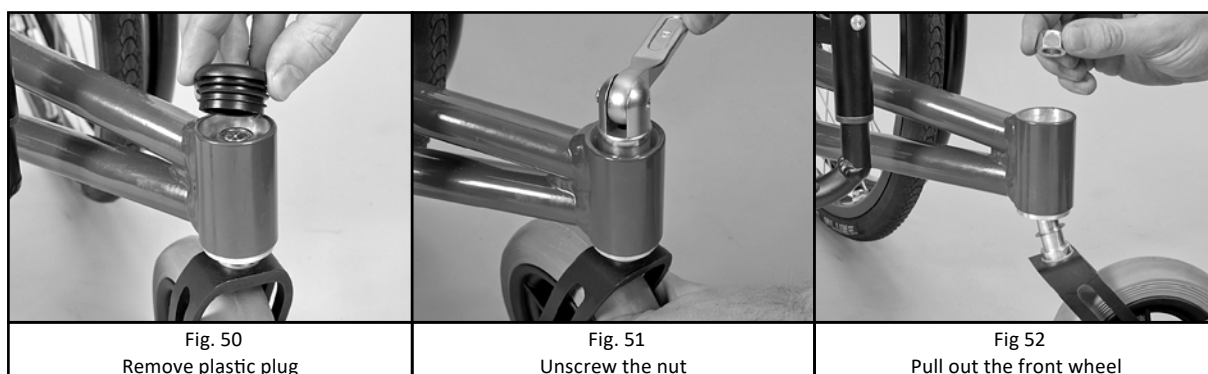
If quick castor changes are required, a Quick Release axle can be mounted in the front fork.

7.22 Aluminum front wheel and replacement of front wheels

Aluminum wheels can be selected with either black or silver fork instead of standard front wheels. Depending on the existing type of wheel, it may be necessary to replace casters and front fork.

Assembly of front fork with casters:

- Carefully loosen the plastic plug in the bearing housing with a straight screwdriver (Fig. 50).
- Unscrew the nut with a 19 mm wrench (Fig. 51).
- Pull out wheel with together with the wheel, and push in the new one (Fig. 52).
- Tighten the nut. Do not tighten the nut to much, so that the fork can still rotate easily in the caster housing.
- Reattach the plastic plug.



7.23 Straps, belts and restraints

A range of different straps and belts are available for different purposes. The hip strap is one of the most commonly used. It is recommended for use during transport in order to prevent the user falling out of the wheelchair (image 60). The full range of straps and belts can be seen at the Wolturnus A/S webpage www.http://wolturnus.dk/produkter/wolturnus/

7.24 Calf-support straps for footrests (Tukan)

Calf-support straps prevent the feet from sliding off the footrest (image 58). The straps can be adjusted to ensure that the user's feet are correctly placed on the footrest. To adjust depth, loosen or tighten the Velcro on the calf-support strap.

7.25 Velcro strap for double folding footrests (Dalton)

The heel strap supports the foot so that it doesn't slip while on the footrest. For Dalton footrests there are special heel straps. For more information, see to Wolturnus A/S webpage www.http://wolturnus.dk/produkter/wolturnus/

7.26 Bags

Bags are available in three different models, all in leather:

- Bag for mounting on the back (Fig. 53).
- Small bag to be mounted underneath the seat.
- Large bag to be mounted underneath the seat.



Fig. 53
Bag

7.27 Table

As an option, A-Run comfort wheelchair can be fitted with a table.

8 Cleaning and maintenance

8.1 Maintenance

Each time the wheelchair is used, operational parts, and particularly wheel locks, should be checked to ensure they are in proper working order. After being loosened 2-3 times when making adjustments or changing parts, self-locking nuts should be replaced. The following table gives an overview of how to maintain the chair and how often.

Component	Function and inspection	day	month	1/4 year
Tyres	Tyres visibly pumped	X		
	Tyres are not damaged	X		
	Test/adjust tyre pressure (see side of tyre)		X	
	Check tread depth (min. 1 mm)		X	
Rear wheel	Directional stability during use	X		
	Wheels rotate freely without misalignment		X	
	Nuts on rear wheel mounting bracket are tight		X	
Castor	No front fork obstruction		X	
	Wheels rotate freely without misalignment		X	
	Axle bolts correctly tightened		X	
	Cap bolts correctly tightened		X	
Seat mount	Secure mounts and bolt		X	
Wear and tear off seat and back	Check fuse points for wear and tear		X	
	Make sure bolts and nuts are tighten		X	
	Check for scratches and oil spill on piston shafts		X	
Footrest	Any locking mechanisms are in working order		X	
	No obstructions or damage		X	
Upholstery and belts	Check covers and belts for wear and tear		X	
	Kontroller spænders funktion		X	
	Kontroller indstilling af sæde- og rygbetræk		X	
Push handles	Check height adjustment	X		
	Check angular adjustment	X		
Wheel locks	Check the brake function	X		
	Check pushbrake pressure on tires (5 mm in)		X	
Sideguards and armrests	Check the armrest cushion (may not move)	X		
	Check bolts and nuts for armrests		X	
Screws	All nuts and screws are tightened			X

In case of malfunctions, contact the supplier or Wolturnus A/S. Contact information can be found under section 14. Wolturnus A/S recommends inspection of A-Run comfort wheelchair at least once a year at the supplier or Wolturnus A/S.

NOTICE

The wheelchair must not be used in salt water. Avoid getting salt, sand and other dirt that can cause damage in the wheel bearings, castor mounting bracket or rear wheels. If this happens, the bearings should be replaced.

INFORMATION

Wolturnus A / S recommends either 22 "tires (489 mm) or 24" tires (540 mm) to the A-Run comfort wheelchair.

8.2 Cleaning and disinfection

The wheelchair should be cleaned regularly according to how often it is used and how dirty it is.

Clean the frame, plastic parts and wheels with a mild cleaning agent. After cleaning, dry all parts with a dry cloth.

Clean cushions and upholstery with warm water and washing liquid. Remove stains with a sponge or soft brush. Rinse afterwards with clean water and allow the parts to dry before mounting and using.

To disinfect, use water-based agents and follow the manufacturer's instructions.

NOTICE

Do not use corrosive cleaning agents, solvents or hard brushes.

NOTICE

Do not wet-wash. Do not use high-pressure equipment or a water jet. The wheelchair components must not be put in a washing machine.

NOTICE

Clean the seat and back upholstery, cushions, handles and armrest before disinfecting.

8.3 Changing a Tyre

If a tyre is punctured, the user or a helper may be able to change it themselves. It requires some hand strength, practical ability and suitable tools. It is advisable to always have a puncture repair kit and an air pump for emergencies (excluding situations with puncture-proof tyres). Suitable air pumps, puncture repair kits or puncture sprays that fill the tyre with expanding foam can be purchased at bicycle shops.

Removing tyres and tubes

- Gently pull the tyre edge over the rim edge with a lever (or two, if it is sitting very tightly). Take care not to damage the rim or tube (image 54).
- Screw off the valve nut and pull the valve out from the rim and rim strap.
- Pull the tube out from between the tyre and rim (image 55).

Repair and check-ups

- Repair the tube according to the instructions on the repair kit or replace it with a new tube.
- Before remounting the tyre and tube, make sure no foreign objects that may have caused the puncture are caught in the rim or tyre.
- Ensure that the tyre band is intact. It protects the tube from spoke damage.
- Push the tube into place between the tyre and rim.

Mounting tyres

- Gently pull the clear tyre edge over the edge of the rim. Start with the valve.
- Check that there are no twists at all in the tube, otherwise air can get out.
- Work the whole way around until the last section of the tyre edge is taut and can be edged into place with one or two levers.

Pumping

- Check on both sides that the tube is not caught between the tyre edge and rim.
- Push the valve lightly in and pull out again to make sure that it is not caught on the tyre edge.
- Fill the tyre with air to the point that it can still be pressed in with a thumb. If the control line on both sides of the tyre indicates the same distance to the rim edge, the tyre is centred. If the tyre is not centred, let some air out and adjust the tyre until it is centred. Now pump the tyre up to the maximum working pressure (see side of tyre) or at least 3.5 bars (350 kPa) and screw the dust cap on tightly.



Fig. 54
Pull the tyre edge over the rim



Fig 55
Pull out tyre

CAUTION!

Ensure the tyres have the correct pressure before using the chair again. The maximum air pressure limit is marked on the side of the tyre. It must always be minimum 3.5 bars (350 kPa) on rear wheels. locks, knee-lever wheel locks are only effective when air pressure is sufficiently high and when they are correctly positioned. (When locked, the brake pad should push the tyre in 5mm (allowing for technical alterations)).

9 Troubleshooting

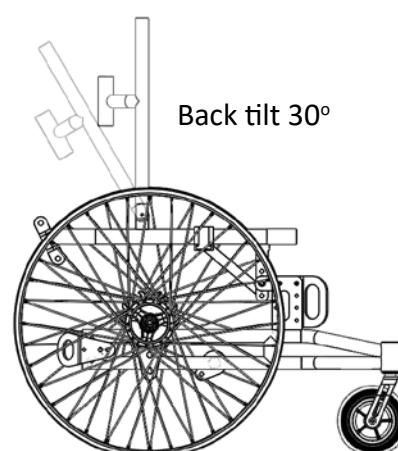
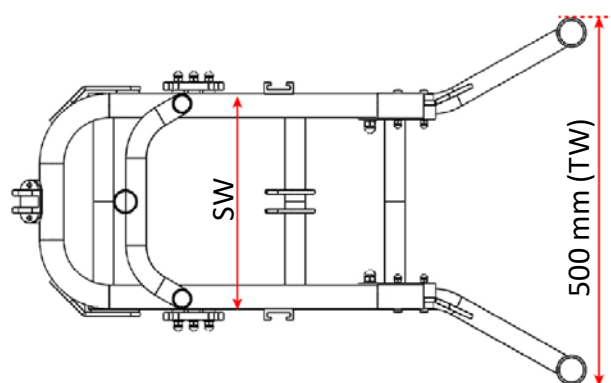
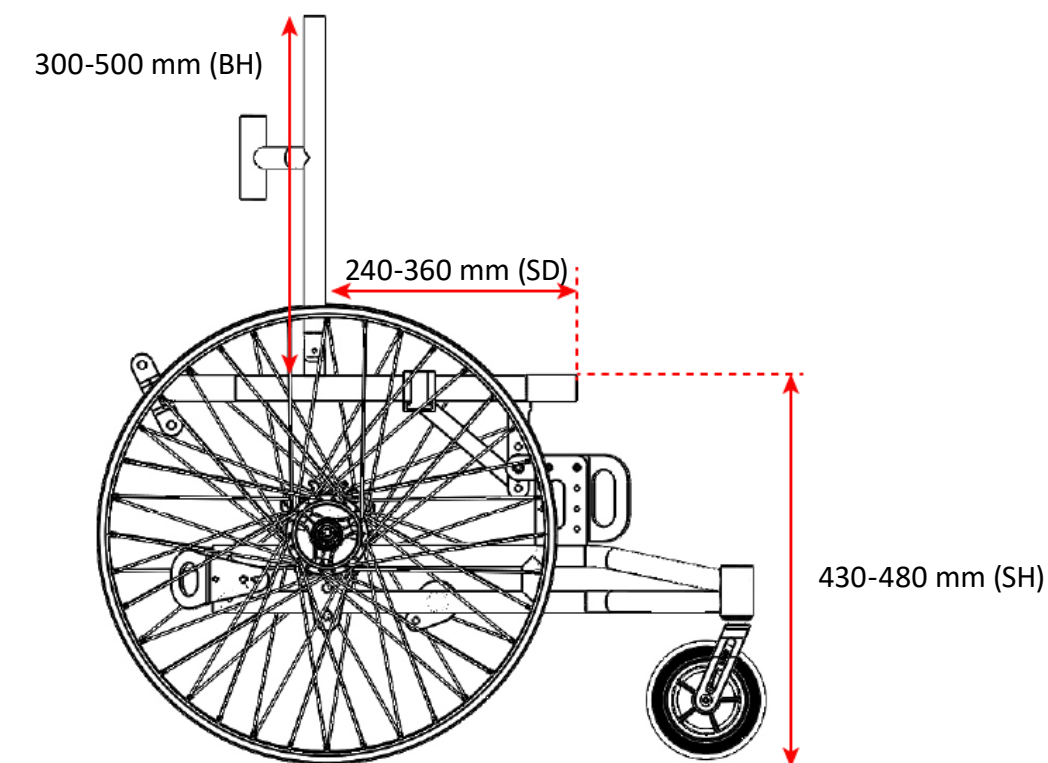
In connection with ongoing maintenance, adjustments, corrections may occur. In most cases, the problem can be solved by following this short troubleshooting list:

Error	Correction	Reference
Castor makes noise or is resistant	- Check if there is dirt between the fork and castor or dirt in the fork ball-bearings. - Clean off the dirt and tighten the screws. If they do not roll freely, change the ball-bearings.	Section 7.22
Front fork shakes	- Loosen and remove the bearing housing cap and tighten the nut to a degree where the front fork with wheel can still easily rotate. - Make sure the castor is vertical.	Section 7.22
Rear wheel makes a loud clicking noise	- Check and tighten the spokes and the push rim mounting screws. - Check that nothing is pushing against the rear wheel or spokes.	
Loud clicking noise	Check and tighten the screws in the rear wheel and castor mounting brackets	Section 6.12
Footrest is lopsided	Check that the foot plate is horizontal and adjust the footrest height.	Section 6.13
Wheel locks do not work properly	- Check that both wheel locks are correctly positioned. - Inspect the rear wheel tyres for wear and tear and for incorrect tyre pressure.	Section 6.15 Section 8.3

If the problem can not be solved using this troubleshooting guide, contact supplier or Wolturnus A/S. See contact information under section 14.

10 Technical data

Measurements and Weight	SB 26	SB 30	SB 34	SB 38
Seat width (SW) (mm)	260	300	340	380
Seat width adjustable	yes	yes	yes	yes
Seat depth (SD) (mm)	240-360	240-360	280-420	280-420
Seat depth adjustable	yes	yes	yes	yes
Seat height (SH) (mm)	430-480	430-480	430-480	430-480
Back height (BH) (mm)	300-500	300-500	450-700	450-700
Back height adjustable	yes	yes	yes	yes
User weight (Kg)	Max. 120	Max. 120	Max. 120	Max. 120
Total Width (TW) (mm)	500	540	580	620
Total length (TL) (mm)	900	900	900	900
Chair weight (Kg)	12 kg	12 kg	12 kg	12 kg
Adjustable push handle	yes	yes	yes	yes
Rear wheel camber	0° - 6°	0° - 6°	0° - 6°	0° - 6°
Auxiliary engine as retrofit	yes	yes	yes	yes
Suitable for securing in car	yes	yes	yes	yes
Suitable for kids	yes	yes	yes	yes
Seat tilt	0° - 30°	0° - 30°	0° - 30°	0° - 30°
Back tilt max.	30°	30°	30°	30°
Neck support	yes	yes	yes	yes
Option for foldable footrest	yes	yes	yes	yes
Adjustable balancepoint	yes	yes	yes	yes



11 Instructions for reuse

11.1 Instructions for reuse

The A-Run wheelchair is suitable for reuse by a subsequent new owner. As the wheelchair is individual and custom-made, it is essential that the chair measurements and equipment are tailored to suit the new user. As with machinery and vehicles, there will be wear and tear. It is therefore important to ensure that the chair's functions and features have not been altered to a degree that could create a safety risk for the new user or any third parties during the lifetime of the chair.

Based on market studies and on its knowledge of contemporary technology, Wolturnus A/S has calculated that the A-Run wheelchair, when used, serviced and maintained in accordance with the original instructions, has a five-year lifetime (excluding time kept in storage by an authorised dealership or the user). Note that with careful care and proper use, the A-Run wheelchair can be used for a longer period than the defined lifetime.

Prior to reuse, the wheelchair must be carefully cleaned and disinfected. The product must then be inspected by an authorised specialist to assess its condition, wear and tear and damage. All worn or damaged parts and components that do not suit or are not designed for the new user must be replaced. This user manual includes a service plan (see maintenance chart section 8) and detailed information about the A-Run wheelchair.

11.2 Disposal

The A-Run wheelchair is delivered in a brown cardboard box that can be delivered to recycling centres or cardboard collection points. The protective bubble wrap on the frame must be disposed of as combustible waste. The aluminium frame must be disposed of as metal. The upholstery and side panels must be disposed of as combustible waste.

12 Environment

Wolturnus A/S strives to respect the environment to the greatest degree possible. An assessment has been done to determine the A-Run wheelchair's effect on the environment during its life cycle. During development, materials and forms are chosen that minimise waste of energy and material during production.

Wolturnus A/S has a unique approach to individual user measurement and to subsequent tailoring of the chair to meet the user's needs. Combined with the wheelchair's high mechanical quality, this ensures that the user can use the wheelchair for many years. The A-Run wheelchair lifetime is calculated to be approximately five years if it is maintained according to the instructions in this user manual. The long lifetime limits its effect on the environment.

Furthermore, meticulous quality control throughout the production process ensures that faults are rare, which limits the need to use superfluous resources on repairs or replacement products.

Generally, all work at Wolturnus A/S is carried out with respect for the environment. Aluminium residue after the production process is collected in containers and delivered for recycling. During the mounting process, use of hazardous agents is kept to a minimum and the work processes meet occupational safety requirements (APV). Use of material is continually optimized to ensure minimum waste.

13 Standards

Wolturnus A/S active wheelchairs are CE approved in accordance with the Medical Device Regulation (MDR), EU 2017/745 as a class I medical device. Furthermore, variants of the active wheelchairs conform to the standards:

- 'Manual wheelchairs - Requirements and test methods' (EN 12183:2014)
- 'Furniture – Assessment of the ignitability of upholstered furniture – Part 1: Ignition source smouldering cigarette' (EN 1021-1)
- 'Furniture – Assessment of the ignitability of upholstered furniture – Part 2: Ignition source match flame equivalent' (EN 1021-2)
- 'Wheelchairs — Part 8: Requirements and test methods for static, impact and fatigue strengths' (ISO 7176-8)
- 'Wheelchairs — Part 19: Wheeled mobility devices for use as seats in motor vehicles' (ISO 7176-19)

14 Supplier and service locations

Service locations

Visit the following webpage to find authorized distributors representing Wolturnus A/S in other countries:
<http://wolturnus.dk/en/partners/>

After-sales spare parts are available for all Wolturnus products.

Please contact the respective distributor in your country.

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