



WOLTURNUS

User's Manual

E-Hockey



English



MD

Wolturnus A/S - It is recommended reading this manual before the use of this wheelchair.

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1 Introduction

1.1 Foreword

This user guide gives the user and his/her assistants the necessary knowledge about the design, function, use and maintenance of the E-Hockey electric wheelchair from Wolturnus A/S. It contains information that is necessary to use the electric wheelchair safely

E-Hockey is supplied as a sports chair, only for use in a sports hall.

Knowledge of the instructions in this manual are essential to ensure the safe operation of the electric wheelchair. Therefore, both the user and the user's assistants must read this manual carefully - this applies in particular to the section on "Safety instructions" - before using the electric wheelchair. This will also ensure the complete utilization of the electric wheelchair and its properties. If the personnel and the user are unable to read the manual, they should get someone who can, to read it for them.

This user manual is manufactured in accordance with DS EN 62079 "Preparation of instructions - Structuring, content and presentation". The instruction manual is divided into sections. The header of each page contains the title of the respective section. The footer on each page contains the model name for the electric wheelchair, version designation for the user manual and page number.

1.2. Intended Use

E-Hockey electric wheelchair is intended for use in Electric Wheelchair Floorball (EWF) The electric wheelchair may only be combined with equipment mentioned in this manual and vice versa. Wolturnus A / S makes no warranty for the product if it is used in combination with accessories or products from other manufacturers outside the modular system.

Using E-Hockey for purposes other than those described above will be considered inaccurate use. The user, and not the manufacturer, is solely responsible for damage to property and persons due to improper use. E-Hockey may only be used by people who are trained to use it. Training users and assistants in the use of the electric wheelchair is a requirement to protect people from danger and to ensure that E-Hockey is used safely and correctly. Safe use of E-Hockey can only be achieved if it is used correctly in accordance with the information contained in this manual. The user is ultimately responsible for accident-free use.

1.3 Usage

The E-Hockey electric wheelchair is especially designed for users who are able to move independently in an electric wheelchair and who want to play the EWF.

The following conditions should be considered when adapting to the user:

- Body height and weight (maximum load is 140 kg.)
- Physical and mental constitution
- The age of the user

1.4 Service

INFORMATION

Service and repairs to the electric wheelchair may only be carried out by authorized personnel trained by Wolturnus A/S. Should problems arise, please contact Wolturnus A/S.

In the event of questions or problems that cannot be resolved using this user 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 and thus to ensure total satisfaction with the wheelchair. Wolturnus A/S contact information and a list of service locations can be found in section 13.

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

Wolturnus provides a two-year warranty for manufacturing defects from date of purchase if the device is used in accordance with this user manual. The warranty does 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.

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 will be carried out by Wolturnus A/S.
- Incorrect use of the wheelchair (e.g. to play basketball or rugby), 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, safety notice, product recalls check www.wolturnus.com.

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 should be transported in its original packaging for optimum protection. Wolturnus A/S therefore recommends that the original packaging is retained throughout the lifetime of the wheelchair.

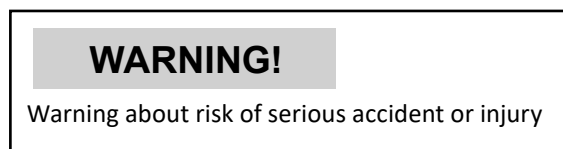
1.9 Serious Incidents

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



2.2 Standards and directives

All safety information in this user 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 manual, the user must be familiar with and must comply with applicable regulations from professional associations, on accident prevention and on environmental protection. All information contained in this user manual must be complied with at all times without limitation. The wheelchair is constructed in accordance with applicable regulations.

2.3 General safety instructions

- The E-Hockey chair may only be used correctly.
- The E-Hockey may only be used by its user, who also should have received training in the use of the chair.
- The E-Hockey chair may only be used to transport one person at any time.
- For safety reasons, it is recommended that the user always uses and tightens the lap belt, which can be supplied by Wolturnus A/S as an accessory.
- All safety instructions contained in this manual and all further relevant documents must be observed. The instruction manual must be accessible to the user at all times.
- The back and seat covers on the electric wheelchair are fire-retardant, but can be ignited. Therefore, extreme caution should be exercised in the vicinity of flammable objects and fire - especially lighted cigarettes and the like.
- When driving on hills and slopes it is advisable not to climb obstacles.
- The electric wheelchair must not be used on stairs.
- Do not get into or out of the electric wheelchair on hills or slopes.
- If the speed setting is changed while driving, the electric wheelchair will change speed.
- Always check that the brake is activated when E-Hockey is stopped. When the brake is deactivated, the wheelchair can roll unchecked.
- The lap belt (accessory) is intended to provide an additional stabilization of the person sitting in the electric wheelchair. The lap belt must never be used as part of the clamping for transporting the user in a vehicle for transporting disabled persons.

- Uncontrolled movements during use of the electric wheelchair may occur due to malfunction. If this happens, please contact your authorized dealer immediately.

2.4 Safety requirements for transport, assembly and storage

- Only suitable lifting gear must be used in connection with the transport the wheelchair.
- The electric wheelchair must be secured in accordance with the requirements for transport aids. Fastening must only be done with the attachment eyelets provided for this purpose.
- When transporting with lifting platforms, lifts, buses or trains and similar situations where the electric wheelchair must be stationary, the brake must be activated and all electrical equipment switched off.
- The electric wheelchair must, as far as possible, be placed in the middle of the platform and all components such as tip fuses or the like must be free of areas where there is a risk of crushing in connection with the transport.
- When adjustments are made all clamps such with screws and nuts must be tightened according to regulations.
- Wolturnus always recommend that the user, when transported in motor vehicles, is transferred to this queue's permanently installed seats, as the E-hockey wheelchair is not suited as a seat in a motor vehicle.

2.5 Safety requirements for use

- The user and the user's assistants are always obliged to make sure that the electric wheelchair and the safety functions are in good and safe condition before it is put into use. The electric wheelchair should only be used if all safety features such as the automatic brakes are fully functional. Faults on the brakes can lead to serious accidents and fatal injuries.
- The electric wheelchair must be inspected at least once a year for fault-free operation and driving safety by a specialist authorized by Wolturnus A/S
- If any malfunction, defect or other condition that could result in personal injury is observed, the electric wheelchair must be immediately shut down.
- Before using the electric wheelchair, all necessary mechanical adjustments (adjustment of seating position, accessories etc.) and software adjustments (setting of the electronic control parameters) must be carried out in accordance with the user's individual requirements and capabilities. These settings may only be made by specialists authorized by Wolturnus A/S.
- E-hockey can be used at temperatures between -25°C and + 50°C. Do not use the electric wheelchair at temperatures below -25°C or above + 50°C.
- Maximum load for E-Hockey is 140 kg. This load must not be exceeded.
- The electric wheelchair tire must be inspected visually before use to ensure that the tire depth of the tires is adequate and that the tires are properly tire pressure. Correct tire pressure can be read on the side of the tire.
- When used on public roads, the user is subject to the applicable traffic regulations.
- It is advisable not to use the electric wheelchair on slippery surfaces (as ice). Driving on very coarse surfaces (such as gravel and pebbles) is also not recommended.
- When entering and leaving the electric wheelchair, all electronic equipment must be switched off. Footrests and armrests are not able to carry full body weight and therefore should not be used for this.
- Do not climb edges with E-Hockey, as this may damage the forks and chair

- If the wheelchair falls over, there is a risk of injury! Before driving on slopes or passage of obstacles, a tilted seat must be returned to the base position and the backrest must be brought to the normal upright position.
- Driving over obstacles less than 5 cm, as steps and curbstones must only be done at low speed (maximum 3 km / h). Always fit obstacles perpendicular and avoid stopping during passage.
- Directional change must only be made at reduced speed.
- When lifting the wheelchair, only grip the frame parts. Never grasp the footrests, armrests or the seat to lift the wheelchair.

2.6 Safety requirements for maintenance, repair and disposal

- Only specialists authorized by Woltturnus A/S must carry out maintenance work on the electric wheelchair.

2.7 Requirements for the user

- The electric wheelchair may only be used by trained users. To ensure this, the user and possibly assist in receiving instructions in the use of the electric wheelchair from trained specialists authorized by Woltturnus A/S.

2.8 Safety functions

- In dangerous situations, E-Hockey can be interrupted with the on / off button. When the button is activated, the electric wheelchair will brake immediately.
- If malfunctions are missing current for the brakes or overheating of the motors occurs, the electronic parts will reduce the speed of the wheelchair or stop completely and activate the brakes and a sound signal will appear.
- In case of noise from the wheelchair, the wheelchair must be stopped and examined.

2.9 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)

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.



Image 1 Location of type label, anti-tip warning, and restraining points

3 Product Description

The electric vehicle is controlled by an R-net control panel. This system consists of a control console for entering driving commands and for displaying the current status and a controller which activates the drive motors based on the entered data. The data transfer is via a bus system.

The programmability of the R-net control panel makes it possible to customize the control to the user's personal needs, e.g. adaptation of speed, acceleration and delay values.

E-Hockey has the following features:

- Easily accessible service due to good and easily understandable access to all components.
- 100% individual adaptation through modular accessory program and personalized production of seat frame and seating system.

The modular design of the E-Hockey makes it possible to retrofit other modules and purchase optional equipment for the standard wheelchair.

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 electric wheelchairs manufactured by Wolturnus A/S, the Basic UDI-DI is 57138250027J.

The UDI-DI is the Global Trade Item Number (GTIN) identified by the prefix (01) on the type label, see Image 1.

The UDI-PI is ced 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, see lma

4 Delivery and Preparation

4.1 Delivery

- Delivery includes:
- E-Hockey electric wheelchair with main components (image 2)
- Charges the batteries.
- User Manual.
- Accessories (see section 7).

This electric wheelchair is ready to operate, when it is delivered by Wolturnus A/S. All adjustments related to the appointed chair will be made on the place of delivery by the dealer. This electric wheelchair is tailored to the users wishes and needs. The functions on the electric wheelchair can be tested by following section 6 in this manual. Any abnormal errors are written in section 8.

4.2 Preparations

Before using the E-Hockey, make sure that the wheelchair is complete (image. 2) and all the function works. E-Hockey is fully delivered ready-made by Wolturnus A/S. Check if necessary. that the plug connection to the control panel is correctly inserted on the motor part.

Main components: (image. 1)

1. Joystick and control panel
2. Armrests
3. Upper frame, backrest and seat
4. Brake levers
5. Lower frame with engine and wheels
6. Battery
7. Footrest

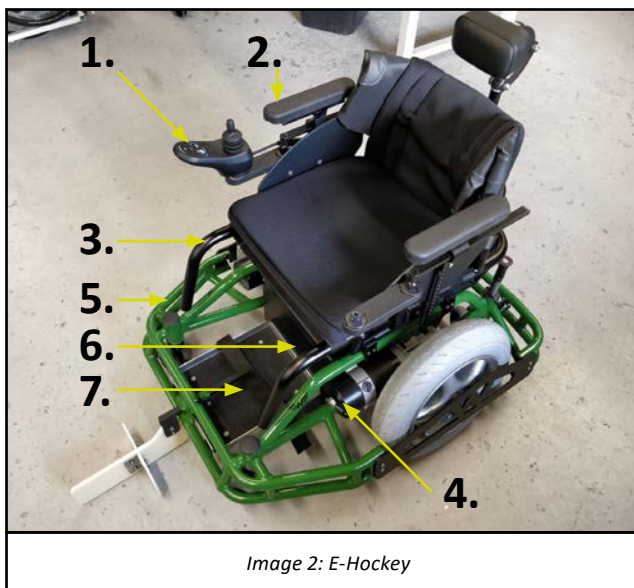


Image 2: E-Hockey

INFORMATION

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

5 Transport and Storage

The size of the wheelchair can be reduced for transport in different ways depending on the equipment.

- Folding the back down by loosening 2 pcs. screws in the top of the frame with 2 pcs. 4 mm Allen keys (Image 3) and remove the through bolt.
- Then both armrests and control panel are removed, the backrest folds forward and both armrests with control panel are placed on top of the folded back. (Image 4).



Image 3: Loosen two screws



Image 4: Folding backrest down

The electric wheelchair must be stored in a dry place. For transport and storage, the temperature should be kept between -40 ° C and + 65 ° C. Tires contain materials that can react with other materials such as detergent. Black tires contain dull particles. If your electric wheelchair does not move over a period of several days, permanent color changes may occur on the substrate on which the wheelchair is in contact. We therefore recommend that a suitable mat be placed under the wheelchair if the wheelchair is not to be used for a long period of time.

It is recommended to disconnect the control panel connector, for shipment and wheelchair recommendation for several days.

CAUTION!

There is a risk of injury if the fasteners are not properly locked. Attach the electric wheelchair during transport by tightening the attachment straps or locking the docking station with the wheelchair as directed.

6 Adjusting the Wheelchair

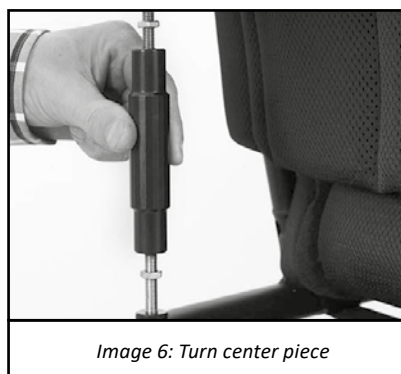
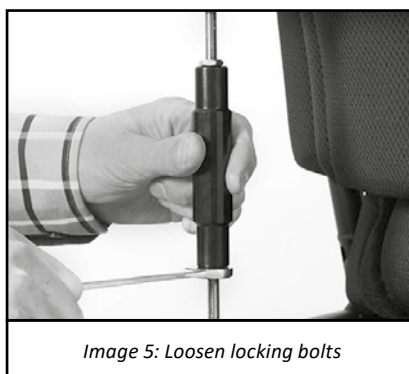
6.1 Adjustability

There are several options for setting the electric wheelchair. The height, width and angle of the seat and backrest are factory-made in accordance with the customer's order form.

The following parts can be set by the user:

6.2 Backrest Angle

The angle of the standard backrest is adjusted with a water screw. To adjust the backrest slope, loosen both lock nuts with a 13 mm spanner. (image 5) Note that counter nuts must be loosened in the right and left direction, respectively. The angle of the backrest can now be adjusted by turning the adjusting screw (image 5). After adjusting to the desired angle of the backrest, tighten the lock nuts.



6.3 Backrest Shape and Depth

The backrest shape is adapted to the individual user's need for support and balance and can be adjusted with the Velcro straps under the back cover. The back of the back cover is folded up so that the straps are visible (Image 6 and 7). By adjusting the various straps, the user can shape the back cover so that it is adapted to the individual needs. This adjustment is of great importance for the user's benefit of the wheelchair. We recommend that this option is initially carried out with the assistance of Wolturnus A / S consultants or the user's therapist.



6.4 Seat length and seat shape

The seat length is adjusted by removing the seat cushion and loosening the Velcro (Image 8) on the front part of the seat cushion from the rear part and pushing or pulling it to the desired position (Image 9). The front part of the seat week is then fixed again on the rear part.

The seat recess is adjusted by removing the seat cushion and removing the front seat cushion (Image 10).

Pull the seat backwards so that the velcro straps on the underside of the seat are available. Release the Velcro straps (Image 10 and 11) tighten them properly before re-attaching them (image 10). Note that for most users, the straps should be tighter against the front edge of the seat than towards the rear edge. This provides better resistance to the backrest's forward-facing pressure on the lower body and a better positioning of the hip. We recommend that this setting be initially performed with the assistance of Woltturnus A / S consultants or the user's therapist.



6.5 Sideguards with Armrests

The height of the armrests is adjusted by loosening and removing 2 pcs. screws with 4 mm Allen key, which attach the armrest fitting to the side piece (Image 12). Then the side piece is fastened again in another position so that the desired armrest height is achieved.



6.6 Control panel Position

The standard mounted control panel position can be set to the user's needs in several ways.

1. When loosening the two screws on the mounting bracket (Image 13), the control panel can be moved forward or back to the desired position, then the screws tightened again. The height of the control panel can change by disassembling 2 pcs. screws (Image 14) and move the bracket to another position.
2. By loosening the screw at the front of the joystick support arm (Image 14), the control panel can be moved up or down and rotated for precise optimization of the user's operating position.
3. If further adjustment of the control panel position is needed in the longitudinal direction, the two screws on the underside of the control panel can be removed (Image 17) and the control panel can be moved to another position.

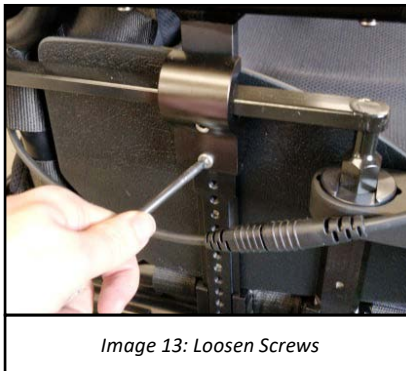


Image 13: Loosen Screws



Image 14: Change position, up/down & back/fourth

6.7 Footrest Height Adjustment

The height of the footrest is adjusted by loosening and removing and/or replacing the distance bushings. (Image 15 & 16). Hold with 4 mm allen key and loosen with another 4 mm allen key. Re-insert distance bushing with the desired height. Mount the nuts and tighten them with an Allen key. Tightening the nuts too hard can deform the frame.



Image 15: Loosen Screws



Image 16: Replace Bushings

6.8 Anti-tip

The anti-tip comes with bracket for securing the anti-tip wheels during play. These can easily be removed by pulling them off. To make the proces easier it is suggested to use a hook and have an assistens to press down the anti/tip (image 17 and 18).



Image 17: Pull bracket off



Image 18: Press down

7 Operating The Wheelchair

WARNING!

Danger to life if the brake fails to function! The brake release lever must be in the locked position when the electric wheelchair is in use. The automatic brake must be ready for use and operational.

WARNING!

There is a risk of injury if the electric wheelchair falls over! Be aware of the following safety rules when driving in the wheelchair:

- Do not drive on slopes of more than 17%.
- When driving downhill, the speed should be reduced
- Do not exceed the height difference of 5 cm
- Do not run over steps or edges without slowing down first

CAUTION!

There is a risk of an accident if the tire pressure is too low or too high. The electric wheelchair must be inspected visually every time it is used to ensure that the tread depth is adequate and that the tires have the correct tire pressure. Incorrect tire pressure reduces tire life and reduces wheelchair performance.

CAUTION!

There is a risk of injury if the electric wheelchair comes out of control! Always switch off the control unit when the wheelchair is not in use. This will prevent accidental activation of the joystick.

NOTICE

Affecting the driving characteristics of the electric wheelchair. The driving characteristics of the electric wheelchair can be influenced by electromagnetic fields (mobile phones or other equipment that emits radiation). During driving, all mobile equipment must therefore be switched off.

NOTICE

There is a risk of damage to other appliances! The electric wheelchair can generate electric magnetic fields that can cause interference with other devices. Therefore, the control panel should always be turned off when not needed.

INFORMATION

Each time the controller is turned on, the setting will be at the speed level that was last turned on by the controller.

7.1 Control Panel (standard)

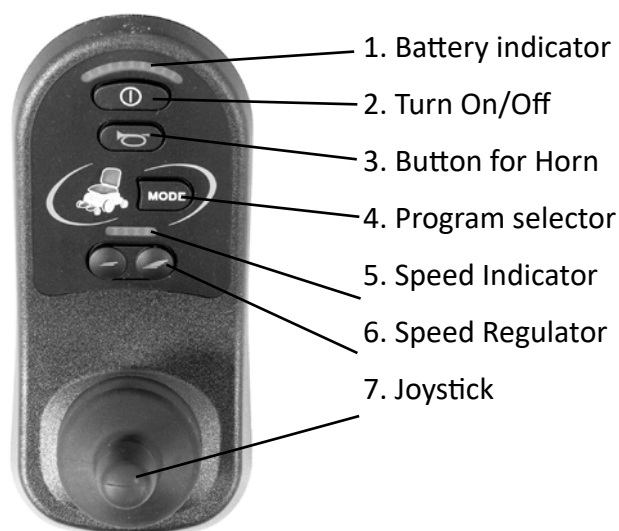


Image 19:
Control Panel

The control panel is used to control the electric wheelchair. The control panel includes push buttons, a joystick and light indicators whose function is described below. The control panel is used to turn the electric wheelchair on and off, to control the movement of the wheelchair and to operate the built-in electrical functions.

1. **The battery indicator** is always on when the electric wheelchair is turned on. The battery indicator shows in 10 steps how much power is left on the battery compared to full charge. In addition, it also shows different signals if there is a fault in the electrical system.
2. **Turn on/off** the wheelchair by pressing the on/off button. The battery indicator lights up when the chair is on. Do not use this button to stop the wheelchair except in emergency situations.
3. **The button for horn** is activated to give warning for the wheelchair's surroundings.
4. **Program selector.** When this button is pressed repeatedly, the user can switch between the control system modes - typically one can choose between actuator control of seat, back or lift. The actuator indicator shows which actuator is selected. If modes other than actuator control are selected, both the speed indicator and the actuator display turn off.
5. **The speed indicator** shows in 5 steps the maximum speed selected.
6. **The speed regulator** is used to switch between the 5 speed programs.
7. **The joystick** controls the driving direction. You move the stick in the direction you want the wheelchair to drive. The more the joystick is moved, the faster the wheelchair runs. When the joystick is released, the wheelchair stops and the brake is activated.

7.2 Turning the Wheelchair On/Off

The electronic control unit is switched on and off by pressing the on / off button (Image 19). If the controller is not used for more than approx. 10 minutes, it is automatically interrupted. It is also possible to switch off the wheelchair with the on / off button while driving. In this case, the wheelchair will brake immediately until it stops.

7.3 Driving Functions

The electric wheelchair can force up to a maximum of 17%. To achieve safe downhill travel, the travel speed must be reduced to a level appropriate to the slope. If the hill is steep, the speed is reduced to the lowest level. The critical height for obstacles is 5 cm. Edges, doorsteps or other marked height differences greater than 5 cm must not be crossed. Always lower the speed safely before crossing obstacles, and try to avoid obstacles on uneven surfaces where you can lose control of the wheelchair. The speed must always be adapted to the surface.

Be aware of the condition of the battery both before and during driving.

The joystick on the control panel, see (Image 19) is used to control the electric wheelchair. The longer the joystick moves away from the center position in one direction, the faster the chair moves. The highest speed that can be achieved is with the joystick furthest away from the center position. The speed of the speed controller is set at the factory. Slow movement of the joystick will result in calmer and more smooth shifts in speed and direction, while rapid movements will cause violent shift in direction and speed. Release the joystick, activate the brake function and the wheelchair will stop. When it is stationary, the mechanical brake is automatically activated so that the wheelchair cannot be moved.

The electric wheelchair has 5 speed steps. By pressing the buttons on the speed controller (Image 19), the wheelchair's speeds can be changed and the current speed step can be read on the speed indicator (Image 19).

7.4 Battery Indicator

The battery indicator (Image 19) is always on when the wheelchair is activated with the on / off button. The battery meter displays the remaining battery capacity with 10 LEDs (three green, four yellow and three red). 100% charging is shown by all 10 diodes lighting up. Each time an element is turned off, this means that the capacity is reduced by approx. 10%. The maximum distance of the wheelchair, with a fully charge battery on a flat surface is approximately of 30 km at a constant speed. When more than 30% of the battery capacity is used, indicated by all the green lights being off, the batteries should be recharged.

During charging, the process can be followed by the LEDs being switched on one by one. During charging of the batteries, the driving function is blocked. The batteries should always be fully charged at each charge.

7.5 Activating and Deactivating The Brakes

If the controller is defective or there is no battery power, the electromagnetic safety brakes will be locked to prevent the wheelchair from rolling uncontrolled. In order to be able to move the wheelchair, it is necessary to release the brakes by means of the mechanical release levers located externally on the motors.

Disconnecting motor brakes. When it is necessary to push the wheelchair manually, the electromechanical brakes must be disconnected. Before disconnecting the brakes, switch off the control panel by pressing the on/off button (Image 19). If the control panel is not disconnected before the brakes are switched off, the LEDs flash as a warning. Similarly, the LEDs flash as a warning if the control panel is turned on without the engine brakes being engaged.

The electromechanical brakes are disengaged by pushing the handles on the front of each motor down to the

lever stop (Image 20). The wheelchair can now be pushed around while observing the safety precautions mentioned.

As soon as the electric wheelchair has moved to the desired position, both motor brakes must be restarted by pushing the levers on both motors upwards. Push back and forth with the wheelchair to check that the brakes are engaged.

If there is power to the wheelchair, turn on the control panel and check the brakes on and off. A "click" sound can be heard when they switch on or off, which happens when the joystick is moved out of the center.

7.6 Protection against overload

To protect against overloading of batteries and motors, the electric wheelchair is equipped with an automatic main switch and an electronic safety system.

In the event of overloading such as light terrain driving or driving up a long hill, the motors can become hot. To protect against damage, there are built-in sensors in the motors and the electronics will automatically reduce the speed to cool the electrical components to avoid damage. You will then notice that the wheelchair loses speed and power. Although the wheelchair will resume its normal speed when the temperature has returned to a safe level, we recommend stopping the drive and waiting for 5 minutes before running again.

When overloading motors or batteries when driving on heavy terrain or uphill, which exceeds the intended use of the electric wheelchair, the automatic main switch will be activated and interrupt the power so that the wheelchair stops and the brakes are activated.

If this happens, wait at least one minute before reactivating the switch.

If the auto-fuse switches off again, wait for 5 minutes before reactivation and driving should be interrupted under the circumstances so that motors and batteries are not overloaded.

If the automatic circuit breaker continues to turn off during normal use, contact Wolturnus A/S for technical support.

Reactivating the automatic circuit breaker:

The automatic circuit breaker sits on the back of the electric wheelchair, to the left of the battery cover (see image 20) and is activated by pressing the button at the bottom.

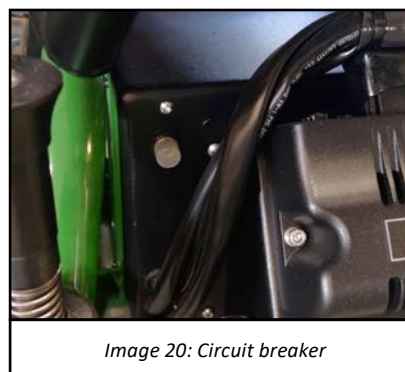


Image 20: Circuit breaker

7.7 Transfers

The modular design of the electric wheelchair and its components such as armrests and possibly footrests (depending on the equipment and model) can be removed, to make it easy for the user to move in and out of the wheelchair from the side or front. The way in which the user moves is an individual choice where the user utilizes the most suitable method. Always have appropriate assistance when transferring.

Lift-off sideguards can be removed to enter from the side. Drive the electric wheelchair as close as possible to the seat surface. Remove the armrest on the side where the transfer is to take place by lifting it off. If the control panel is mounted on the side where the transfer is to take place, it is recommended to disconnect the connector from the engine part to the control panel.

7.8 Charging batteries

E-Hockey is standard equipped with two maintenance-free 12V gel batteries. Battery capacity determines the wheelchair's reach and several factors have an impact on the battery capacity. The age of the batteries, the driving behavior, storage of the batteries and the charging method are of great importance. To get the maximum benefit from the batteries, we recommend the following.

- The batteries should be charged at every opportunity regardless of their remaining capacity.
- It takes about 10 hours to charge a fully discharged battery (only one lamp lights up on the battery meter).

When charging is complete, the battery charger can remain connected without the risk of overcharging or damage to the battery. The battery charger has a programmed charging phase, which at full charge will go to maintain the battery's capacity at the maximum level.

- If the electric wheelchair is used daily, we recommend that the battery charger is plugged in daily for full capacity to be available every day.
- When the electric wheelchair is not used for more than one week, the batteries will discharge. It is therefore necessary to charge the batteries at least once a week to maintain full capacity.
- Complete discharge of the batteries should be avoided.
- When the batteries are charging, the control panel on the wheelchair should be disconnected so that all charging current is put into the batteries.

When charging batteries, the following should be observed:

- Only use the battery charger supplied by Woltturnus A / S. Failure to comply will void the warranty.
- The mains voltage of the battery charger must be 230V 50Hz.

The battery charger is designed for Woltturnus A/S maintenance-free batteries and must not be used for other types of batteries.

When using the battery charger, the following safety considerations should be taken:

- Always make sure the battery charger is on a flat surface.
- Protect the battery charger from direct sunlight to prevent it from getting hot.
- The battery charger must be placed in a dry and ventilated area. Avoid dust and dirt from entering and affecting the function.
- Clean the battery charger with a dry and clean cloth.

Using the Battery Charger:

1. Disconnect the control unit from the electric wheelchair.
2. Connect the plug from the battery charger to the charging socket on the wheelchair

Operating the Wheelchair

3. Connect the battery charger to 230V 50 Hz mains voltage. The charging of the batteries will start automatically and the charge status will be displayed on an LED lamp on the battery charger (Image 21 & 22). The LED flashes when charging the battery.
4. When the LED light is constantly lit, the charging process is complete. Disconnect from mains voltage and then unplug the control unit.
5. Turn on the controller and the wheelchair's batteries are charged.

The following signals appear on the battery charger when connected to the wall socket and battery:

1. The light is on: The charger is powered.
2. The lamp flashes: The battery is charging. The lamp lights constantly: The battery is charged.
3. Lamp lights: Fault in charging stand, disconnect mains voltage.

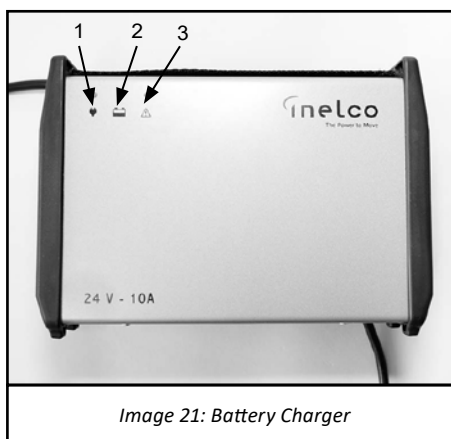


Image 21: Battery Charger

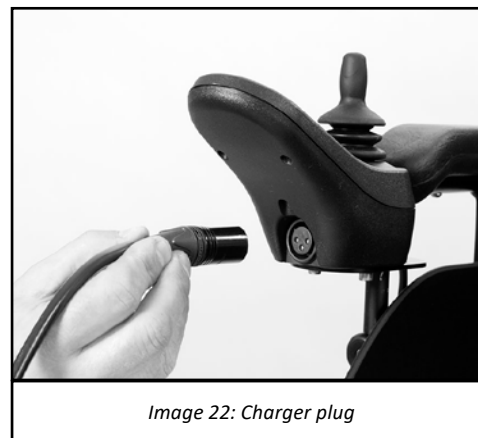


Image 22: Charger plug

If no LED lights up, mains voltage is not connected to the charger.

WARNING!

Danger to life if the brake fails to function!

An incorrectly adjusted brake can lead to brake failure and thereby cause injury or death. Repairs and adjustments to the brakes may only be carried out by authorized personnel.

WARNING!

Risk of accident and injury due to incorrect configuration settings. Changing the parameter settings during configuration causes a change in driving characteristics. In particular, changes in speed, acceleration, brake or joystick settings can result in unforeseen and therefore uncontrollable driving behavior with accidents.

Always test the electric wheelchair's driving behavior after completing the configuration / programming.

Programming may only be carried out by Wolturnus A/S.

Wolturnus A/S accepts no responsibility for damages caused by the programming not being adapted to the wheelchair user.

WARNING!

Risk of accidents and injuries if the brake function is inoperative.

When the brakes are disengaged with the mechanical release levers, there is no brake device available. If the electric wheelchair is manually activated on a sloping, the person or persons affected by the wheelchair should be able to provide the necessary power to brake the wheelchair.

WARNING!

Entrapment Hazard! When the battery drawer is pulled out, fingers and hands can be pinched.

WARNING!

Explosion!

When charging batteries, explosive gases may form. Follow safety instructions:

- There must be good ventilation when the batteries are charged.
- Smoking and open fire are not allowed.
- Avoid sparks.
- Do not cover the batteries / battery case.
- A battery can explode when short-circuiting.

CAUTION!

Risk of breakage due to overload. Upon entry and exit, the user must not rely on full weight on the footrests or armrests.

CAUTION!

There is a risk of injury if the electric wheelchair rolls! The electric wheelchair control panel must be switched off when entering or leaving the wheelchair. The motor brake is automatically blocked when the control panel is off.

Note: that the brakes are not manually deactivated.

NOTICE

Plan your drive to avoid terrain or climbs that overload motors and batteries. Despite the safety systems, there is a risk of malfunction.

NOTICE

Risk of Battery Damage!

Longer driving with only the lower parts of the battery indicator on, will discharge the batteries completely and damage them, with the risk that the batteries cannot be recharged.

NOTICE

Disengaging the brakes can cause uncontrolled rolling of the electric wheelchair. Therefore, it must always be ensured that the brakes are activated when recommending / parking the wheelchair.

After switching on the motor brakes, their function must always be checked.

INFORMATION

The batteries are damaged by being completely discharged. Therefore, you should charge the batteries as often as possible and avoid discharging them so much that only the red LEDs illuminate.

When the batteries are completely discharged, the red LEDs flash to remind you to immediately connect a charger to avoid damage to the batteries.

Batteries should only be replaced by authorized personnel.

INFORMATION

After disengaging the brake levers, all types of brake systems are out of order.

8 Accessories

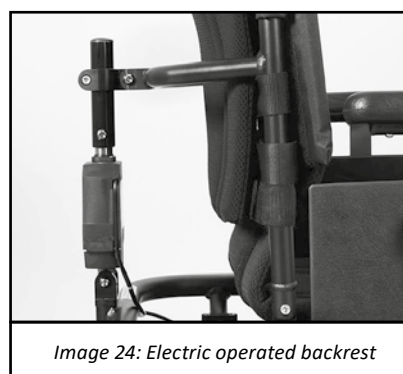
E-hockey electric wheelchair is designed as a modular system. Some types of accessories can be changed and other types of accessories can be added to the wheelchair. The complete accessory program is described in the order form and in the accessory catalog.

8.1 Gas Cylinder Operated Backrest

E-hockey can be supplied with manually operated gas cylinder for setting the backrest tilt.

Backrest tilting backwards:

- Gently move the release lever upwards (Image 23) so that the gas cylinder is released while the upper body is leaning back against the backrest.
- Let the backrest move back to the desired position.
- Release the release lever to lock the gas cylinder again.
- Tilting the backrest forward:
- Gently move the release lever upwards (Image 24) so that the gas cylinder is released while the upper body is leaning forward.
- Let the backrest move slowly to the desired position.
- Release the release lever to lock the gas cylinder again.



8.2 Electric Operated Backrest

E-hockey can be supplied with electrically operated adjustment of the backrest slope. The backrest angle control is done using the control panel and joystick as described later in this section.

Adjusting the backrest angle:

- On the electronic control panel, press the program selector (button 4, image 19) until the back lights on the actuator indicator turn on.
- The angle of the back can now be adjusted by moving the joystick forward or backward.
- When the setting is complete, press the program selector one or more times until the actuator indicator turns off and the joystick returns to normal.

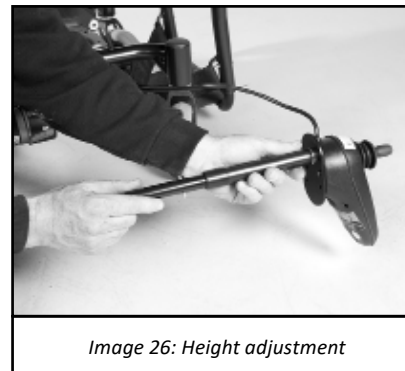
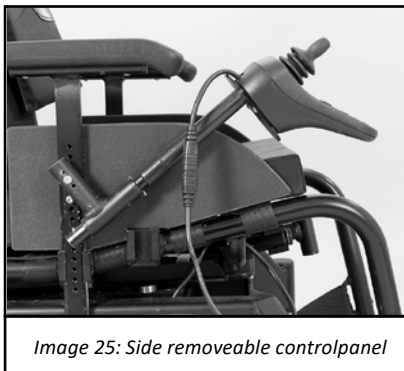
8.3 Bracket for Control Panel

E-hockey can only be obtained with two types of control panel controls:

1. Length and height adjustable fittings where the operating height and distance from the armrests can be adjusted (standard)
2. Center mounted joystick

The height and length adjustable control panel control holder is the standard mount solution. See guidance on adjustment in section 6.6.

Center mounted and removable control panel control is especially developed by Wolturnus to allow a central positioning of the control panel at the front to achieve an ergonomic operating position that relieves shoulders and arms as much as possible over extended periods of time. Center-mounted and removable holder consists of side fittings on armrest fittings (Image 25) and center fittings (Image 26), placed in front of the center under the front edge of the seat. The control panel can be freely moved between the brackets when sitting in the wheelchair.



The position of the bracket on the armrest is adjusted as follows:

1. To adjust the angle of the arm length, loosen the two Allen bolts holding the bracket (image 27) with a 5mm Allen key and the bracket angle can be changed.
2. To move the bracket up or down, screw the bolts out and move to other holes in the armrest bracket.
3. The length of the telescopic rod on which the control panel is mounted can be changed as follows: Turn the outer part of the rod to which the control panel is attached, counterclockwise until the rod becomes loose and can be moved out or in (Image 26). Now turn the control panel clockwise until the two parts of the rod lock together again.

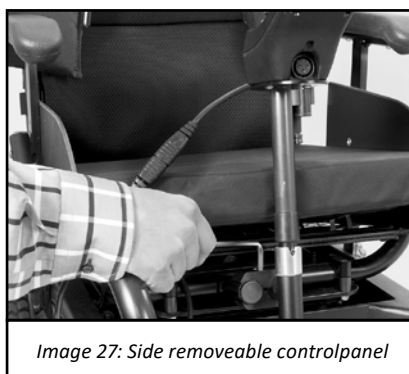


Image 27: Side removeable controlpanel



Image 28: R-net JSM + R-net CJSM

R-Net is a multifunction modular system, which consists of an advanced, programmable steering box and a selection of control panels. R-Net can control up to 15 connected modules and offers great flexibility and expandability opportunities. The individual system is built up in connection with the users needs and the instructions happen individual. Wolturnus A/S stock two types of R-Net control panels (Image 28)

8.4 ILSA multi-adjustable ergonomic back and side support

ILSA developed by Wolturnus A/S and patent pending. ILSA is a combined ergonomically optimized back and side support that can be used to solve a wide range of individual positioning needs. ILSA is distinguished by the fact that the upper part of the backrest can be adjusted in depth, width and height and at the same time act as side support. The brackets can be adjusted differently on the right and left sides and a stepless asymmetric fit is therefore possible.

By loosening a screw on each side, the height of the backrest can be changed and the width adjusted asymmetrically if desired. At the same time, the depth can be further adjusted with the integrated belt system.

Thereby, in a simple way, a high degree of individual adaptation to particular needs can be achieved without the use of custom-made accessories. It is also easy to continuously adjust the setting to changes in the user's needs or variable conditions as a change in the user's attire due to the seasons changes. ILSA can be ordered with handles so setting can be done without tools.

ILSA back and side support is adjusted by loosening the screw shown on both sides with a 3 mm Allen key (or handles, if equipped) and turning / lifting to the desired position (Image 29).

The belts are adjusted according to the same principles as standard back as described in section 6.1

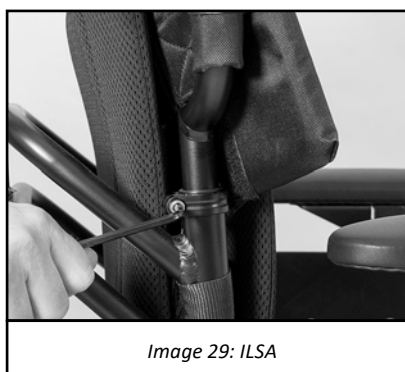


Image 29: ILSA

8.5 Headrest / Neck Support

The headrest is adjusted using a 10 mm spanner and adjusted by loosening the bolts that make up the pivot points of the joints (Image 30). After adjustment, the joints are tightened again.

Adjusting the neck pillow is done by loosening the 3 screws on the ball bracket with 3 mm Allen key (Image 31) and then turning the neck pad to the correct position. Tighten the screws again when the setting is as desired.

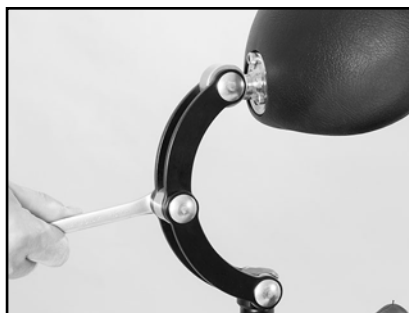


Image 30: Adjusting Headrest Joints



Image 31: Adjustrest Headrest Support

8.6 Body Supports

The swivel body support supports the user's upper body and can be adjusted to a desired position. The body support can be rotated away from the user by lifting and turning the bracket connecting the support pad and the spring housing (Image 32). The body support is normally rotated to position pointing rearward, where it locks in the position (Image 33). Swivel body support can be adjusted in height and angle by loosening 2 screws with 5 mm Allen key (Image 34).



Image 32: Body Support



Image 33: Swing Away Body Support



Image 34: Adjusting Body Support

8.7 Belts, straps and buckles

Wolturnus has a large selection of belts, straps and buckles - request a special brochure. The best-selling harness is the lap belt, which is recommended to use while driving to ensure the user does not fall out of the chair.

WARNING!

Only original accessories supplied by Wolturnus A / S may be used. The equipment offered may only be installed as described here. Failure to comply with these instructions will void the warranty.

WARNING!

Risk of injury if the electric wheelchair falls over. Before driving on slopes or over obstacles, a tilted seat must be lowered back to its normal position and the backrest raised upright.

WARNING!

Risk of damaging your fingers! Avoid tilting the seat between the frame and the seat when tilting the seat. Avoid any disturbing objects within the range of motion when operating the seat / back or lift.

WARNING!

Overloading of the actuators can cause breakdown of the spindle mechanism and cause the seat or backrest to fall backwards.

NOTICE

Electric actuators are not intended for continuous use, but only for short-term activation with intermittent pauses. General recommendation: With maximum permissible load maximum 10 seconds operation at a time with at least 90 seconds break between. Electric seat operation is not to be considered as part of the driving function.

NOTICE

All original equipment is available in the wheelchair's order form and accessory catalog.

NOTICE

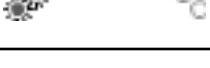
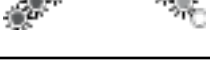
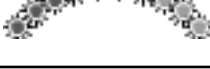
When moving in or out of the wheelchair, the joystick must always be placed in the bracket on the armrest.

9 Troubleshooting

The fault display is via the flashing LED indicator "Battery indicator" on the control panel (image 28). Table 1 explains the individual codes with associated error sources as well as possible causes and measures.

If the errors cannot be completely remedied by the measures described, the authorized dealer is able to read the exact error code and perform a more detailed system analysis with the hand-held programmer.

All faults that have occurred are stored in a list and can be read out by a main inspection of the electric wheel-chair. On the basis of the stored data, additional service and maintenance intervals can be planned.

Flashing LED	Error / Warning	Cause	Possible Solution
	Battery undervoltage	Battery Deep discharge Battery cable shows error / Faulty connection to battery	Charge the battery Check the connection to the battery.
	Wrong wiring on the left motor Defective engine	E.g faulty connector	Check connections to the left engine Check the engine
	Short circuit on battery connection to the left motor	E.g cable break	Check the battery connection to the left engine
	Incorrect wiring on the right motor Defective engine	E.g faulty connector	Check connections to the right engine Check the engine
	Short circuit on battery connection to the right motor	E.g cable break	Check the battery connection to the right motor
	Driving function blocked due to outside influences	Possibly the charger is connected	Remove charger
	Joystick error	Joystick are not in zero position when switching it on	Bring the joystick to zero before switching it on
	Error in control box	Control box defective	Check all connections
	Solving the brake	The brake lock is open	Check engine brakes / Check the connection to the controller
	Battery Overvoltage	Voltage is too high Loose battery contacts	Drive slowly Check the electrical outlets
	Communication error between control panel (joystick) and control box	Defective cable, loose connector	Check the connections

NOTICE

If problems occur during troubleshooting or failing to correct a problem completely by following the methods described below, please contact Wolturnus A/S.

CAUTION!

Risk of injury due to abrupt stop of the electric wheelchair.

In case of communication problems in the control bus system, the system triggers an emergency stop to avoid uncontrolled functions. The wheelchair can be driven out of a danger zone, for example by means of the control again.

CAUTION!

Risk of accidents due to uncontrolled driving behavior.

When operating the electric wheelchair, uncontrolled movements may occur due to interference. In this case, contact Wolturnus A / S immediately.

CAUTION!

Malfunction of the steering.

The control shows a fault signal on the control panel when the brake is released and the joystick is operated. If not, there is a malfunction which must be remedied immediately by an authorized dealer.

An error can affect one or more of the electric wheelchair's functions. Until the fault is rectified, the system is not fully operational.

10 Cleaning and Maintenance

The checkpoints on the opposite side of Table 2 include all the controls that the user must perform at different intervals and must be carefully observed. The stated check points under "Daily" should be performed each time the wheelchair is put into service.

The circuit breaker is described in section 7.7.

Component	Function and Control	Daily	Weekly	Monthly
Tire	Make sure the tires look full	X		
	Check that the tires are not damaged	X		
	Dimensions/adjust tire pressure			X
	Check the depth of the pattern (min. 1mm)			X
Rearwheels	Directional stability when driving	X		
	The wheels must rotate freely without any bias			X
	The central nut on the drive shaft must be tight			X
	Make sure wheel attachments are properly seated			X
Caster & anti-tip	The forks must not have a veil			X
	The wheels must rotate freely without any bias			X
	The shaft bolt tightened properly			X
Seat brackets	Check mounting screws / fittings			X
Gas cylinders Actuators	Check the attachment points for the veil			X
	Check that bolts and nuts are tight			X
	Checks for scratches on piston shafts and oil spills			X
Footrest	Check any locking mechanisms			X
	Check for veil and damage			X
Covers and belts	Inspect covers for damage and wear			X
	Inspect belts for damage and wear			X
	Check tension function			X
Batteries	Check that the battery is properly charged	X		
Electronics	Check for error messages	X		
	Check the battery charger for proper operation			X
	Check plugs for wear / loose			X
Brakes	Check that the brake is active at the stop	X		
	Check the manual brake release			X
Side panels and armrests	Control panel and armrests are stuck	X		
	Check bolts and nuts for armrests			X
	Check if the control panel is properly adjusted			X
	Check the connectors for the control panel			X

10.1 Replacing wheelguard

Replacing the wheelguard:

This is accomplished by loosening the 4 screws. The screws must be loosened using a 6 mm allen key. The wheelguard can be removed and replaced when all the screws have been loosened (Image, 35, 36).



Image 35: Wheelguard

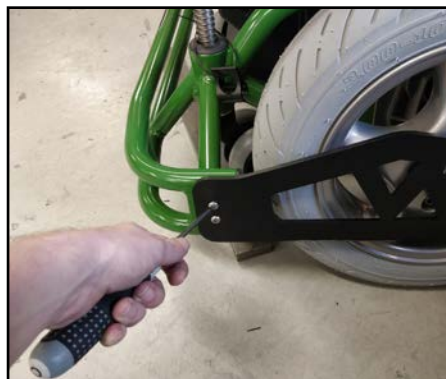


Image 36: Remove wheelguard screws

10.2 Replacing Wheels, Tires and Forks

Replacing the drive wheels:

This is accomplished by raising one side of the rear of the wheelchair so that the tire/ wheel is free from the ground (Image 37)

The drive wheel is removed by removing 4 screws using a 6 mm Allen key (Image 38).

When replacing the drive wheel tire or hose, the rim must be separated by removing 5 Allen screws using a 6 mm Allen key on the inside of the wheel. (Image 39) after which the two-part rim can be separated. The defective tire or hose can now be replaced.



Image 37: Elevating Wheels



Image 38: Remove Drive Wheels



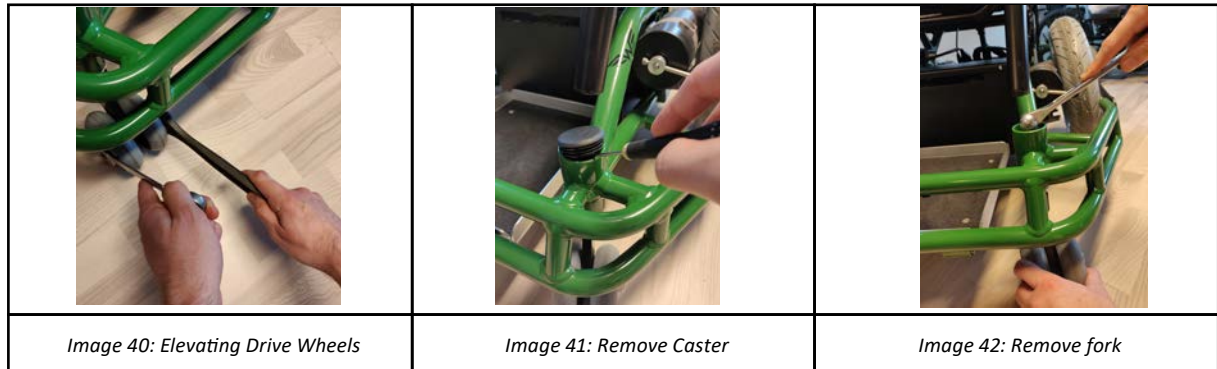
Image 39: Change Drive Tire

Replacement of front wheels:

Replacing the front wheel is done by raising the wheelchair so that the tire is free of ground. The front wheel is dismantled by removing a bolt and nut with 2 wrench.

Front wheel fork replacement:

To access the nut, remove the cover plug using a suitable tool such as a screwdriver. The front wheel fork is then dismantled using a 17 mm wrench.



10.3 Cleaning

The electric wheelchair should be cleaned regularly depending on how much it is used and degree of soiling.

Use a dry cloth to clean the control panel and battery charger.

Use a damp cloth for armrests and surfaces.

Use a dry brush for cleaning seat, back cover and cushion.

Use a damp plastic brush to clean wheels and frame.

WARNING!

Risk of damage to the electronic control!

Risk of malfunction!

When cleaning the electric wheelchair, the electronic controls, the engine and the batteries must not come into contact with water.

WARNING!

Risk of damage to sub-components of the electric wheelchair!

Do not use strong cleansers, solvents or hard brushes to clean the electric wheelchair. Never use water jet or high pressure cleaner to clean the electric wheelchair.

NOTICE

A spare part catalog for use when ordering spare parts can be obtained from Wolturnus A/S. Only spare parts and replacement parts from Wolturnus must be used. Otherwise, the warranty will lapse.

NOTICE

If you find any errors in performing maintenance, contact Wolturnus A/S. The electric wheelchair should be checked and serviced once a year by an authorized technician. Tire changes and repairs must be carried out by the authorized technician or Wolturnus A/S

NOTICE

The wheelchair control panel must be switched off and the brakes must be engaged within the wheel or tire change.

NOTICE

Before disinfection, clean the seat and back cover as well as the pillow, control panel and armrest. Use a standard disinfectant such as Sagrotan for disinfection.

INFORMATION

Each time the controller is turned on, the setting will be at the speed level that was last turned on by the controller.

INFORMATION

Unnecessary outdoor recommendation must be avoided. Regardless of the wear, the tires should be replaced in an interval of 2 years. For longer standstills or heavy heating of the tires (e.g. near radiators or by sunlight through windows), the tires are deformed permanently. Therefore, keep sufficient distance from heat sources, move the chair in between or be sure to check the wheelchair for prolonged storage.

11 Technical data

Measurement and Weight	
Seat Width	36 / 38 / 40 / 42 / 45 cm
Seat Depth	39 - 44 cm
Seat Height (standard)	37 - 42cm
Armrest Height	20 - 35 cm
Armrest Length	23,5 cm
Lower Leg Length	39 - 44 cm
Backrest Height	32 - 38 cm
Backrest Angle	90°
Width	78 cm
Height	75 - 85 cm
Length	90 - 102 cm
Wheel Size Front (solid)	4" (100x32) grey
Wheel Size Rear (solid)	4" / 3" grey
Drive wheel Size (air)	3,00x10" Highway for Hockey
Tire Pressure max. at 140 kg.	50 P.S.I (350 LBS = 50 P.S.I)
Weight	90 kg
Max. Userweight	140 kg
Power Supply	
Operating Voltage	24V.
60 Ah / H5 gelbatteries	60 Ah (standard)
55 Ah / Optima Yellow Top Batteries	55 Ah.
Charging time	from 6 hours
R-net JSM LED	24V.
R-Net CJSM.	24V.
Driving Data	
Speed	15 km/h
Range 60 Ah gel batteries	??
Range 55 Ah Optima Yellow Top batteries	??
Operating Temp.	-25 C til +50 C
Turning radius	100 cm (may vary)
Passing Slopes	Not recommend
Passing Obstacles	Not recommend
Free Height	9 cm.
Transport and Storage Temp.	-40 C til + 65 C
Charger	
Type	IMC 24V-10A
Supply Voltage	230V 50Hz
Charge Voltage	10A
Battery Size	40 Ah til 120 Ah
Maximal Supply	325 W
Dimension	22 x 8 x 16,8 cm
Weight	1,9 kg.

12 Cooling fan

The e-hockey wheelchair is equipped with a fan to cool down the power module and the batteries.

It is recommended that the fan is switched on when the wheelchair is in use and during matches.

The switch for the fan sits on the back of the electric wheelchair, to the right of the battery cover (see image 43) and is activated by pressing the switch to left or right.



Image 43: Switch for the fan



Image 44: Localizing of the fan

NOTICE

Remember to turn off the fan or it will drain the batteries, possibility of damage if drained very low.

Be sure there are no things sticking into the fan, as this can damage the blades of the fan.

13 T-Stick

NOTICE

The t-stick user is responsible for ensuring that the T-stick complies with the rules of use of the T-stick.

Make sure it is not bent or cracked

14 Disposal and Reuse

E-Hockey electric wheelchair is suitable for recycling. After use, the wheelchair can be used for a new user. However, due to the wheelchair's individually tailored character, it is of the utmost importance that the current wheelchair's dimensions and equipment fit the new user.

Products that are reused have, like used machines or vehicles, been subjected to wear. It is therefore of utmost importance to check that properties and services have not been altered so as to endanger the safety of the user and any other persons during the life of the product.

Through market surveillance and its knowledge of up-to-date technology, Wolturnus A / S has calculated that the electric wheelchair E-Hockey, while observing the intended use of the original user and the instructions on service and maintenance, can be expected to last 5 years. Storage times at the authorized dealer or owner are not included. However, it must be argued that an E-Hockey electric wheelchair can be usable well beyond the defined period by careful care and considerate use.

Before re-use, the wheelchair must be cleaned and disinfected carefully. The product must then be checked by an authorized specialist for condition, wear and damage. All worn and damaged parts and components that do not fit or are suitable for the new user must be replaced.

NOTICE

When disposing of a wheelchair, all components and materials must be recycled or destroyed properly.

There is a risk of polluting the surroundings with battery acid. The batteries of the electric wheelchair contain an acid.

Do not dispose of as normal household waste and battery acid must not enter the sewage system or into the ground. Observe the instructions of the battery manufacturer indicated on the batteries.

If the electric wheelchair is no longer in use, it must be disposed of responsibly in accordance with national regulations.

Defective batteries are returned to the dealer or at the recycling center.

15 Responsibility

Wolturnus A/S warranty only applies if the product has been used under the stated conditions, purposes and instructions. Wolturnus A/S is not responsible for damages caused by components and spare parts that have not been approved by Wolturnus A/S. Repairs may only be made by authorized dealers or Wolturnus A/S. Wolturnus A/S does not assume responsibility for the damage that may occur when using the chair. It is the user's responsibility to ensure that the chair complies with the relevant rules in the sport. This applies to the supplied T-stick if one is ordered.

16 Manufacturer 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.

Manufacturer

Wolturnus A/S

Skalhuse 31

DK-9240 Nibe

Denmark

Tel: +45 9671 7170

Fax: +45 9671 7180

E-mail: info@wolturnus.dk

Website: <http://www.wolturnus.com>

Kundeservice/Customer Service

Wolturnus A/S
Skalhuse 31
9240 Nibe

Telefon: +45 96 71 71 70

www.wolturnus.dk

Mail: info@wolturnus.dk

Produktion/Production

Wolturnus A/S
Halkjærvej 24B
9240 Nibe



WOLTURNUS