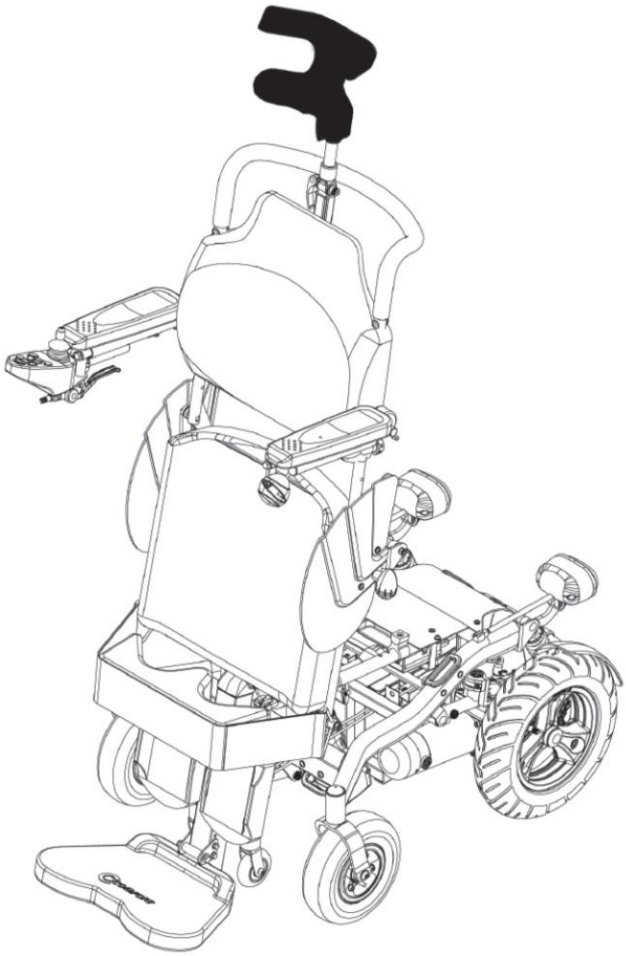
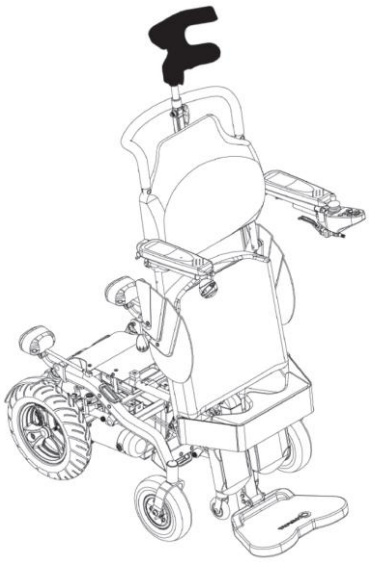


User manual
Edition 08.2014
HERO STAND UP model

Electric-powered wheelchair with verticalization

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Before using the wheelchair for the first time, please read the whole manual thoroughly and carefully. If anything seems unclear or you have any doubts and questions concerning the use of the wheelchair, do not hesitate to contact your distributor.

Hero Stand Up is a wheelchair manufactured according to the latest technology. Construction of this wheelchair enables to ensure its maximal adjustment to the requirements of the user. The wheelchair combines solid and durable construction, latest solutions as far as electronic control is concerned, and appropriate safety systems.

In order to follow safety principles and to maintain the capability of being fully operational, remember to regularly control your wheelchair in the service centre (once a year).

In case of any doubts or any damages, please contact your service centre, as this is the entity having all competences required to solve your problem.

Make sure that you have filled the attached warranty form and that you have submitted it to the distributor, as this will enable us to ensure the best possible service.

FAILURE TO COMPLY WITH THE REGULATIONS INCLUDED IN THE USER MANUAL MAY RESULT IN PRODUCT DAMAGE OR SERIOUS PERSONAL INJURIES.
The producer and the manufacturer shall not be held liable for product damage or injuries resulting from using the wheelchair in a manner not compliant with safety regulations stated in the user manual.

Batteries will be disconnected during transport in order to ensure their long lifetime. Remember to connect the red cord with input marked with "+" symbol before using the wheelchair for the first time.

Remember that the user manual constitutes an integral part of the wheelchair. When you decide to sell the wheelchair, do not forget to give the user manual to the subsequent user (this is required by law). Always carry the user manual with you, as it will help you solve possible problems with the wheelchair. In case of any problems that cannot be solved with the help of the user manual, immediately contact the customer service.

ATTENTION

It is not allowed to make any modifications in the construction of the wheelchair, as this may cause serious damage to the wheelchair and/or personal injury.

SAFETY

You can find the following symbols on the wheelchair:



symbol indicating that the battery is connected



symbol warning about the risk of pinching, it is essential to make sure that when changing the position no elements of garment or of the body can be pinched by mobile elements of the wheelchair

Brake release lever

	the brake is activated
	the brake is deactivated

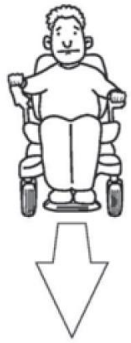


elements that can be used to attach the wheelchair during transport

Practical information concerning the usage

- Before you start freely using the wheelchair, find an open space, where you will be able to practice all manoeuvres and to practice the system of driving an electric-powered wheelchair.
- It is recommended to ask someone for assistance and help until you reach complete certainty and freedom when operating the wheelchair.
- Before you get on the wheelchair, make sure that the wheelchair is turned off and that the speed is programmed according to your skills.
- When you are using the wheelchair for the first time, set the minimum speed in order to safely practice operating the wheelchair and learn more about the possibilities it offers.

WHEELCHAIR OPERATING TRAINING



Master operating of the wheelchair and making all manoeuvres in order to safely move in the wheelchair.
At first learn how to move forward. Make sure that the minimum speed has been set.



When you will master moving straight forward, try to move in the shape of the letter S.



Then you can begin training how to move backwards. Regardless of the programmed speed when moving forward, when moving backwards, the wheelchairs will always move slower.

NOTES

- When in supine position, move only inside the room, on short distances. When the seat is lifted, the maximal speed will automatically be reduced by half.
- Do not move perpendicularly to the steep slopes.
- Do not take passengers.
- Do not use trailers.
- Do not allow children operate the wheelchair without supervision.
- Never deactivate the control panel when driving, as this will make the wheelchair stop suddenly, and this can cause an injury.
- Do not move the wheelchair when intoxicated or under the influence of psychoactive substances.
- Consult your doctor and ask if medicines you are taking don't pose an influence on your ability to operate mechanical vehicles.

- Do not use your mobile phone or any other personal communication devices (f. ex. CB radio) when operating the wheelchair.
- The wheelchair is not adjusted to be used in road traffic.
- Do not use the wheelchair outside when it's raining or snowing, when the temperature is too high (it exceeds 30°C) or too low (below 0°C).
- Do not drive the wheelchair on quaysides, on river banks of lake shores, which have not been secured.
- The wheelchair is not adjusted to be used off-road (dirt roads).
- It is not recommended to use the wheelchair outside at night.
- When moving backwards, make sure that there are no obstacles or objects behind you. For safety reasons, the reverse speed should be limited to minimal value.
- Avoid sudden stops, turns and making U-turns, as they can lead to fall and injury.
- When operating the wheelchair, keep your forearms on arm-rests, and keep your feet on foot-rests.
- Do not stand up when operating the wheelchair. Do not lean out to the sides, do not lift any objects from the ground.
- Do not approach any elevations (steps, curbs) with height exceeding 4.5 cm.
- The wheelchair is not adjusted to move on stairs. Always use wheelchair ramps or lifts.
- The wheelchair is not adjusted to overcome any cracks in the ground that are wider than 10 cm.

SAFETY MEASURES

INFLUENCE OF ELECTROMAGNETIC WAVES

Electric-powered wheelchair may be susceptible to the activity of electromagnetic interference (EMI), which occurs as a result of overlaying electromagnetic waves emitted by various sources, such as radio stations and TV stations, CB radio, short-wave radios and mobile phones. The impact of electromagnetic waves may cause damage or impaired functioning of brakes in the wheelchair, its spontaneous movement or movement in an unintentional direction. This may also lead to damage of the electronic control system.

The force of the electromagnetic influence (EM) is measured in V/m. Each wheelchair has a determined level of EM tolerance known as the LEVEL OF RESISTANCE. Higher level of resistance equals higher safety level. Current technologies enable to ensure resistance on the level reaching 20 V/m, which guarantees protection against the influence of electromagnetic waves.
By following several simple principles stated below, the user may avoid all the situations described above (damage of the wheelchair, its spontaneous movement), which could lead to serious personal injury.

1. Do not activate any personal communication systems (CB radio, mobile phone) when the wheelchair is turned on.
2. Avoid moving the wheelchair near transmitting stations (both radio and TV transmitters), transmission towers.
3. In case when the wheelchair should move spontaneously or move towards an unintentional direction, turn off the power supply as fast as possible, only if this operation does not pose a threat to your life.
4. Do not add any new equipment to the wheelchair and do not try to modify the wheelchair individually, without consulting the distributor, as this may affect the level of electromagnetic resistance of the wheelchair.
5. All of the above-mentioned incidents related with the influence of electromagnetic waves should be reported directly to the distributor, and it is important to give the location of the nearest source emitting electromagnetic waves.

MOVING ON THE WHEELCHAIR

Moving on rough terrain

Moving on an undulating terrain creates more risk. It is important to follow the safety principles stated below. Failure to comply with these principles may lead to serious injuries.

- It is not recommended to move the wheelchair on slopes with inclination exceeding 10°. It is essential to remember that wet surface will additionally reduce the grip of the wheelchair and will impair the functioning of brakes when ascending and descending a slope.
- When in vertical position, it is not allowed to ascend on a slope with inclination greater than 3°. The speed is automatically reduced, according to the inclination angle and the selected position. In extreme conditions, the system shall make it impossible to move any further.
- It is not recommended to move backwards when descending slopes.
- It is not recommended to move on uneven, dirt roads (sand, gravel, grass).
- When descending a slope, it is recommended to move with minimum speed.
- Do not get off the wheelchair and do not get on a standing wheelchair on an inclined surface (always place the wheelchair in an even, flat surface first).
- When conquering a slope, always ascend following a straight line, according to the inclination of the slope.

Moving to an upright position

- Consult your physician and ask whether an upright standing position is safe in your case.
- When you are moving to an upright position for the first time, the whole process should be supervised by a qualified medical personnel, since many various impairments can occur in such situations.
- Use the verticalization function only when the wheelchair is in the drive mode (the electric power supply is on) - only when the braking system is activated.
- Move to an upright position only when the wheelchair stands on a stable, even and dry surface, otherwise moving to an upright position may result in fall and injury.
- It is not recommended to move in an upright position outside and on long distances. Moving in an upright position is allowed only in small, enclosed spaces (kitchen, office, etc.)

Pay special attention and check that no parts of garments or parts of the body can be pinched when lowering the seat (when moving to a sitting position). Be particularly careful.

Verticalization allows:

- Prevent muscle spasms in lower limbs.
- Regulate functioning of the respiratory, circulatory and excretory system, as well as gastrointestinal tract.
- Regulate muscle tension (prevent spasticity).
- Reduce the risk of osteoporosis (minimise calcium extraction from bones).
- Reduce the risk of decubitus ulcers.
- Increase the feeling of independence when performing activities of daily living (positive psychological aspect).

PREPARING THE WHEELCHAIR

SYSTEM OF STABILISATION STRAPS

Remember to properly fasten knee, chest and hip stabilisation straps before moving to the upright standing position.

Stabilisation straps are used to stabilise the body and limbs when moving forwards and when moving to an upright position. They do not stand as protection in case of possible collision. Before initialising the verticalization process, it is crucial to check if all straps are properly tightened.

MAINTENANCE

Hero Stand Up is an electric-powered device with complicated structure, and therefore it is not allowed to repair or modify the wheelchair independently. In case of any problems with functioning of the wheelchair, contact the authorized service.

Individual modifications, repairs and part replacement will void the warranty.

Programming the parameters of the wheelchair should be performed in the presence of a qualified medical personnel, in order to ensure that selected parameters meet functional capacities of the patient. Failure to properly adjust the parameters may cause improper use of the wheelchair and may lead to fall or to injury.

In case of any doubts concerning the functioning and the use of your wheelchair, contact customer service, where you will be able to obtain all crucial explanations and instructions.

PREPARING THE WHEELCHAIR

The wheelchair is delivered in a cardboard package, and its delicate parts are additionally secured against damage during transport. Unpack the wheelchair very carefully, to avoid any damage.

TRANSPORTING THE WHEELCHAIR

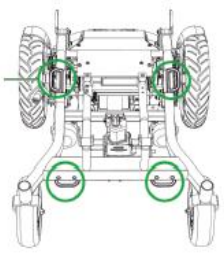
The wheelchair should be transported only with the use of appropriate means of transport. When transported, the wheelchair should be secured with the help of straps attached in placed indicated with a blue label (the illustration aside shows places where abutments should be attached, marked with circles). Wheels should be blocked.

It is forbidden to sit on the wheelchair during transport, as it can lead to a fall and serious injuries.

The wheelchair cannot be transported by means of transport that are not adjusted to transporting wheelchairs - means that do not have a special locking system, since this can cause damage to the wheelchair.

Always make sure that the wheelchair is properly fixed in the means of transport, as otherwise it may not only cause injuries among people travelling in the same means of transport, but it may also cause serious damage of the means of transport.

When entering a ramp leading to the means of transport the wheelchair should be secured at the back, to prevent it from falling.



PREPARING THE WHEELCHAIR

All additional elements of the wheelchair should be removed from the wheelchair for the duration of transport or they should be securely attached to the wheelchair, making sure that these elements do not cause injury or damage during sudden braking.



In order to reduce the size of the wheelchair during transport, you can do two following actions:

- lift the foot-rest,
- fold the back-rest as shown on the illustration.

Before the first use of the wheelchair

- Check if batteries are fully charged.
- Check if the drive mode is turned on (clutch lever).
- Always plan your route ensuring that you will omit dangerous areas (boggy, difficult areas) and obstacles, which you won't be able to overcome on a wheelchair.
- Check if the seat is properly adjusted.
- Check if the speed is adjusted to your skills and capacity.
- Check if the horn is functioning properly.

ATTENTION

- When sitting on the wheelchair do not lean your body weight on arm-rests, as this may lead to personal injuries and the wheelchair may fall.
- Do not stand on foot-rests as the wheelchair may fall (except for the upright position).
- Remember to check whether the wheelchair is deactivated, since inexpedient touching the control shifter when changing seats may make the wheelchair move, and this can lead to fall and personal injury.
- During transfer try to stay as close to the wheelchair as possible, to avoid slip and fall.

HAND BRAKE

When you stop the wheelchair, especially on an uneven ground, remember to pull the hand brake, to increase safety.

Pull the hand brake whenever you are sitting on the wheelchair or you are getting off the wheelchair onto another type of seat.

Remember that improper pressure in tyres, worn tyre tread or wet tyres can reduce the effectiveness of the hand brake.

PREPARING THE WHEELCHAIR

FUSE

When your wheelchair will be overheated press the fuse to break the circuit and ensure protection against damage.



CLUTCH

The wheelchair has a clutch lever enabling to disconnect the electric drive and push the wheelchair manually.
If you want the electric drive to be activated, push the clutch lever forward.
If you want the electric drive to be deactivated, pull the clutch lever.



ATTENTION

Do not deactivate the electric drive, if there is no one who could push your wheelchair.
Do not deactivate the electric drive when the wheelchair is on an inclined surface, as it could roll down and this could lead to serious injuries.

REMEMBER THAT WHEN THE ELECTRIC DRIVE IS DEACTIVATED, THE ELECTROMAGNETIC BRAKING SYSTEM IS ALSO DEACTIVATED.

Always stand behind the wheelchair when you are deactivating the electric drive. Do not deactivate the electric drive when sitting on the wheelchair. When you place your wheelchair in the desired location, remember to activate the electric drive again.

CONSTRUCTION OF THE WHEELCHAIR

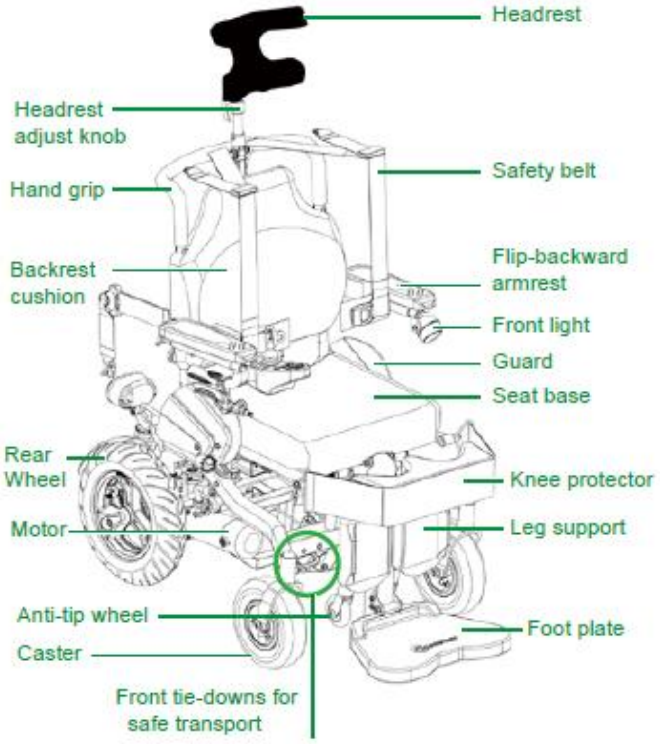
The wheelchair consists of the following parts:

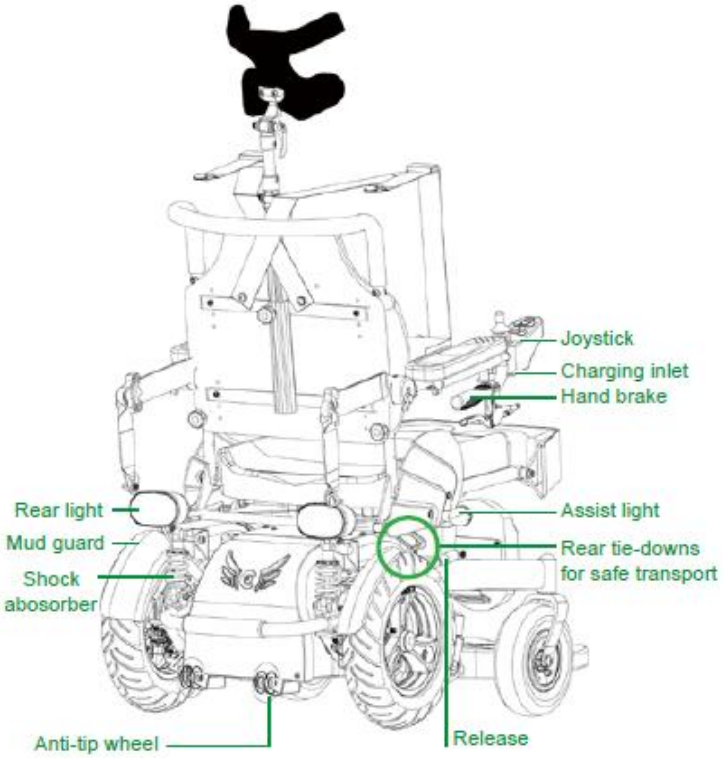
- frame
- seat
- backrest
- knee stabilizer
- straps stabilizing the chest and legs
- control panel
- control shifter
- batteries
- battery charger
- set of tools

Parameters	Hero Stand Up	
Length	113.5 cm	
Width	62 cm	
Width of the seat	42 cm	46 cm
Height	120.5 - 147.5 cm	
Wheels	Front 9'' Back 14''	
Tyre pressure	50 Psi (3.5 kg / cm2)	
Load bearing capacity	120 kg	135 kg
Maximum speed	9.5 km/h	
Maximum land inclination to ascend/descend forward	10°	
Range*	20 km	
Turn radius	90 cm	
Battery	2*50 Ah	
Charger	24V 5AMP	
Brakes	"Intelligent" electromagnetic brakes	
Fall prevention wheels	Four fall prevention wheels	
Motor	2*450 W	
Weight without batteries	63 kg	
Weight with battery	95 kg	

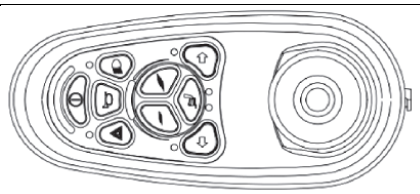
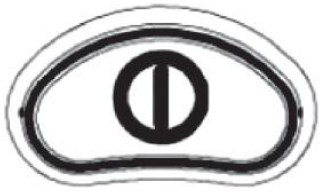
*The range of the wheelchair depends on the surface the wheelchair moves on and on operating conditions.

CONSTRUCTION OF THE WHEELCHAIR



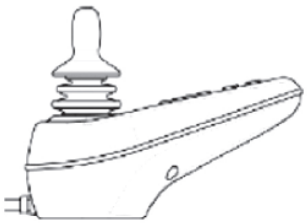


CONTROL PANEL

Control shifter is located on the control panel. Control shifter enables to move the wheelchair. It also has a set of keys to manage all functions of the wheelchair.	
Power switch is used to activate and deactivate the power supply of the wheelchair. Do not use this switch to stop the wheelchair.	
Battery charge indicator. It is located in the upper part of the control panel and it indicates the level of battery charge. It also acts as the system diagnosing any possible damages.	

ATTENTION

When the battery is low, the first red LED begins to flash. This means that it is essential to immediately charge the battery.

Control shifter enables to control the direction and speed of the wheelchair. When you move the shifter from the neutral position (location in the middle), the electromagnetic brake of the wheelchair is released, which enables the wheelchair to move. Bigger inclination of the shifter from the neutral position means greater speed of the wheelchair. When the control shifter returns to the middle position, the braking system is activated, which causes gradual slowing of the wheelchair, until the wheelchair comes to a full stop. Moving the shifter from the neutral position to the back, makes the wheelchair move backwards. Moving the shifter to the right will make the wheelchair turn right, whereas moving the shifter to the left will make the wheelchair turn left. The shifter can also be used to manage other functions, after changing the operation mode.	

ATTENTION

When the wheelchair begins to move in an undesired direction, release the control shifter and let it return to the neutral position. Despite the failure of the shifter, this action will activate the braking system and the wheelchair will stop.

CONTROL PANEL

Speed indicator Indicates speed - if one LED is on it indicates minimum speed, of 5 LEDs area on it indicates maximum speed. This indicator also shows when the speed is automatically limited (when the position is changed to upright position), and this is when LEDs begin to flash. When LEDs turn on in a wave pattern, this means that the control panel is locked.	
Horn Pressing this button turns the horn on.	
Hazard warning signal This button activates the hazard warning signal.	
Lights activator This button is used to turn on the road lights. After turning on the road lights, LED on the control panel indicating this particular function turns on.	
Function key Pressing this particular key enables to change into the upright position. Moving the control shifter forward will cause slow and gradual shift towards the upright position. Moving the shifter back will cause return to the sitting position. In order to enter the drive mode, press the function key once again.	
Turn indicators These are used to indicate that the wheelchair is turning right or left. After using these keys, signalling LED will light up on the panel. Press a proper key once again to turn off the turn indicator.	

CONTROL PANEL

LOCKING AND UNLOCKING THE CONTROL PANEL

To lock the control panel: 1. With activated control panel, press and hold the power switch. After a second you will hear a sound. 2. Release the power switch. 3. Move the control shifter maximally to the front until you hear a sound. 4. Move the control shifter maximally to the back until you hear a sound. 5. Release the control shifter (put it in neutral position) and then you will hear a long sound. This sound means that the control panel is locked.	

To unlock the control panel: 1. Press the power switch. LEDs on the speed indicator will light up in a wave pattern. 2. Release the power switch. 3. Move the control shifter maximally to the front until you hear a sound. 4. Move the control shifter maximally to the back until you hear a sound. 5. Release the control shifter (put it in neutral position) and then you will hear a long sound. This sound means that the control panel is unlocked.	

System preventing motor overheat

The wheelchair is equipped with a system preventing motor overheat. This system monitors the temperature of the control panel, which translates into the motor temperature. When the control panel reaches critical temperature (140°F / 60°C) the power of the motor is temporarily decreased. This limitation of power results in smaller speed of the wheelchair, which shall be maintained until the motor and control panel reach the normal temperature level again. In case of severe motor overheat, the safety system may turn off the motor to protect it from possible damage.

Fault detection system

The fault detection system was created to ensure user safety. It allows to quickly detect and diagnose faults within the control panel, as well as within the whole electric system. Short flashes of the battery charge indicator signify particular defects. The number of flashes reflects a separate fault, which is presented in table on page 15. If you detect any of the defects listed in the index of defects, contact your distributor immediately.

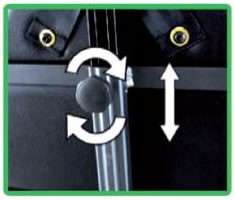
REPAIR

Number of flashes	Fault - repair
1	The battery needs to be charged or it has not been properly connected. Check the battery connection or charge the battery.
2	Left motor has not been properly connected. Check the motor connection.
3	There is a short circuit between the left motor and the battery. Contact your distributor.
4	Right motor has not been properly connected. Check the motor connection.
5	There is a short circuit between the right motor and the battery. Contact your distributor.
6	The wheelchair is stopped by the charger. Disconnect the charger.
7	Control shifter defect has been detected. Make sure that the shifter is in neutral position before you deactivate the control panel.
8	Control panel defect has been detected. Make sure that all connections have been secured.
9	Braking system has not been properly connected. Check the connection of the braking system and connection with the motor. Check other connections as well.
10	Too high voltage for the control panel. This is usually caused by faulty connection to the battery.

ADJUSTMENTS

Head-rest adjustment

Unscrew the screw regulating the head-rest clockwise. Set the desired height and tighten the screw. In order to adjust the angle of the head-rest, it is essential to lift the clamps indicated on illustrations A and B up, set the desired angle of the head-rest and let the clamps fall down. Illustrations below present the possibility to set various angles of the head-rest.





Folding the seat

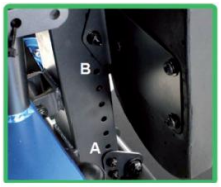
In order to fold the seat, loosen the two screws located on both sides of the seat, grab the handle at the top of the seat and push it forward.





Adjusting lower limb support

In order to adjust the position of the foot-rest and to ensure comfortable position of the feet, it is essential to unscrew screws indicates with the letter A on the illustration, choose the appropriate height to place the foot-rest (by choosing proper holes on the fixing arm) and tighten the screws.



In order to adjust the position of calf support, unscrew the screw indicated with the letter B on the illustration, choose the appropriate height to place the calf support (by choosing proper holes on the fixing arm) and tighten the screw.

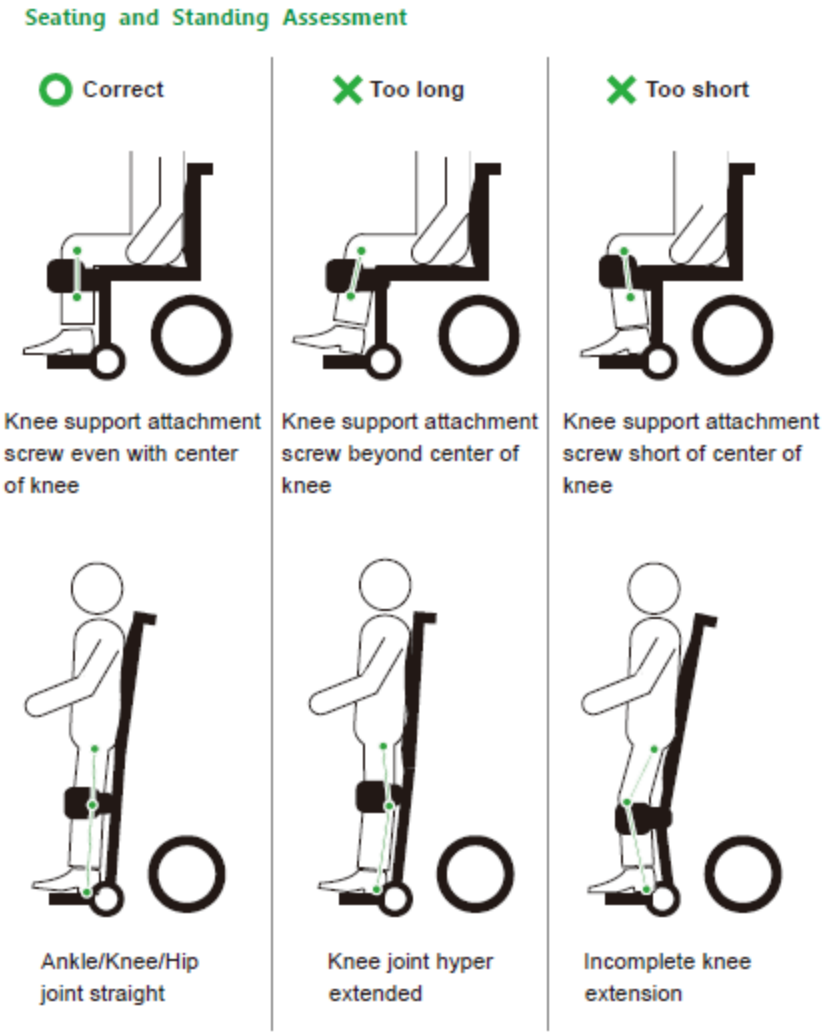
ADJUSTMENTS

Adjustment of the knee stabiliser



Adjustment is done by means of a velcro tape. It can be fastened more tightly or loosely, depending on requirements.

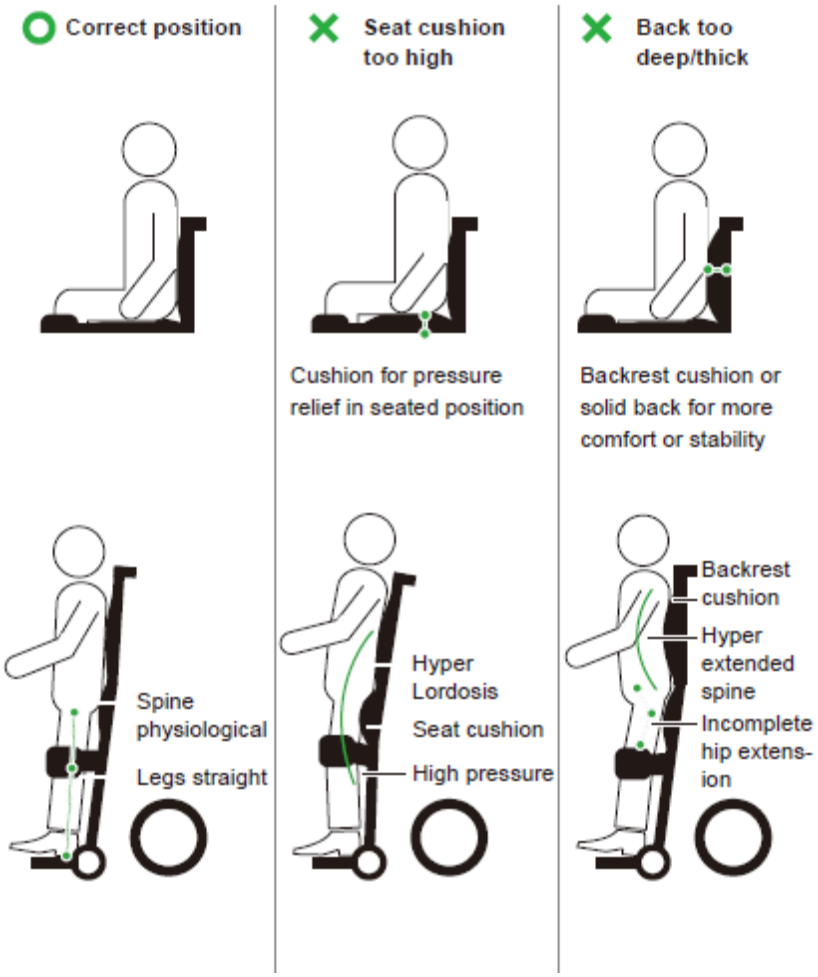
It is important to adjust all parameters in a manner ensuring proper and stable position, both when sitting and when standing upright.



The screw tightening the knee stabiliser should be located on the level of the middle poiint of the knee joint, to ensure its position in 90° flexion. Proper position of the knee stabiliser will ensure proper standing position (hip, knee, ankle joint in one line) and by the same, proper load bering of the whole limb.

ADJUSTMENTS

Properly adjusted pillow on the seat and the backrest is of considerable significance as far as proper standing position is concerned, and it is shown below.



Lifting the foot-rest and arm-rests

If necessary, it is possible to manually fold the foot-rest by lifting it up (as shown on the illustration).



In order to facilitate transfer, it is possible to lift arm-rests. Turn the lever marked with the symbol A on the illustration clockwise. This will make it possible to lift the arm-rest.

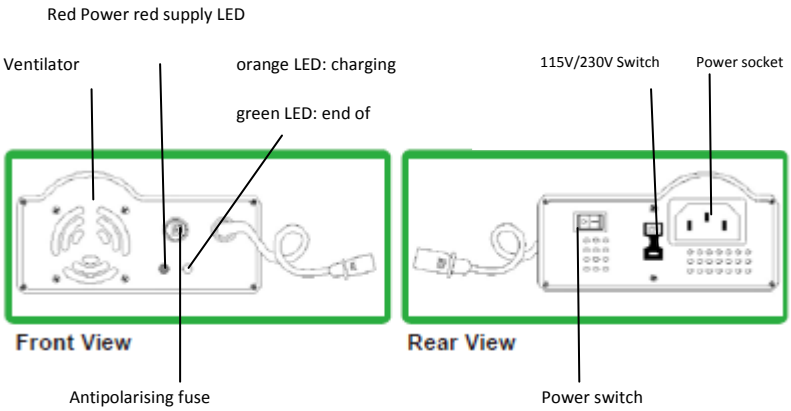


ATTENTION

Always remember to fasten and adjust stabilising straps. After adjusting all settings of the wheelchair and after sitting in the wheelchair in a comfortable position, fasten your chest stabilising belt. Make sure that this belt is properly adjusted and fastened.

BATTERY CHARGING

Charge the batteries with the battery charger supplied with the wheelchair.



ATTENTION

- Use a standard 3-prong grounded plug and grounded socket.
- Do not use an extension cord or adapters in order to avoid the risk of fire, electric shock or injury.
- Do not use the same socket for other activities when charging the battery.
- Use the default charger anticipated for this wheelchair in order to avoid damage of the wheelchair.
- Do not leave the charger plugged in, if the batteries are not charging.
- Keep the charger and batteries far from water and humidity, do not handle the charger with wet hands.
- Charge the wheelchair in properly aired room.
- Do not cover the ventilator of the charger, to ensure proper heat exchange.
- Leave the device in stand-by mode until the battery is fully charged. Do not sit in the wheelchair when the battery is charging.
- Do not break the battery charging cycle until the battery charge indicator shows that the battery is fully charged.
- Do not put the charger directly on the battery.
- Check whether all parameters of the charger correspond with the parameters of batteries and power supply voltage. Connecting a battery with different parameters may lead to battery damage and to serious injuries of the user.
- When charging the batteries, pay special attention not to expose the wheelchair to high temperatures and smoke, to avoid ignition and explosion.

BATTERIES

- In order to avoid electric shock, do not touch the charger or batteries with wet hands or other objects, and do not expose these elements to humidity.
- Check whether the charger switch is set to "O" position before connecting the charger to the mains and before charging the batteries.

- Do not expose the charger to rain, water and humidity.
- The charging process should take place in ambient temperature , ranging between 0°C and 40°C. Charging batteries in other conditions may be unsuccessful or may lead to damage of the batteries.
- If the charging indicator is not illuminated, disconnect cords for 10 minutes and after this period of time try reconnecting them. If this does not help, contact the service department.
- When the charge indicator remains yellow after charging for more than 12 hours, contact the service department.

In order to safely charge batteries, follow the recommendations below:

- Park your wheelchair as close to the grounded socket as possible.
- Turn off the wheelchair.
- Make sure that the electric power supply of the wheelchair is turned on (the clutch is in proper position - drive mode).
- Connect the charger to the charging socket.
- Connect the charger to grounded socket, remember to check whether the socket has proper voltage - 115V/230V.
- Turn on the charger (red - the battery is low, yellow - the battery is half charged, green - the battery is fully charged). In case when LEDs flesh in an irregular manner, turn the charger off. Check the connection of the charger and reconnect the charger. In case when the charging procedure will proceed without complications, diodes marking the battery charge level will light up (as described above).
- The optimal charging time takes 5-6 hours (in winter it lasts slightly longer).
- When charging is finished, disconnect the charger from the socket, and then take the plug out of the charging socket.



ATTENTION

- In case when the wheelchair will remain unused for a longer period of time, take the batteries out and store them in a dry and cold place.
- Avoid complete failure of the battery.
- If you are using the wheelchair every day, charge batteries every day.
- If you are using the wheelchair once a week, charge batteries once a week.
- **It is not allowed to partially charge batteries (f. ex. connect batteries for a shorter time than a full charging cycle), as this may damage the battery or limit its durability.**
- Only fully charged batteries can be stored.
- If you are not using your wheelchair on regular basis, in order to maintain durability of batteries, charge them at least once every two weeks, observing a full charging process.
- Always replace the batteries with the ones delivered with your wheelchair.
- In case when the battery is damaged or has to be changed, report to your distributor. Do not throw the battery into the recycle bin, instead, handle it to the distributor.
- In order to prevent short circuit and battery damage never touch battery contacts with metal objects.

BATTERIES

PROBLEMS RELATED WITH THE CHARGING PROCESS

1. Lack of voltage indication after connecting the charger.
   - Check the connection of power cords.
   - Check the connection socket of the charger.
   - Check the functioning of the ventilator.
2. Red and yellow LEDs on the battery charge indicator are lighten up, but the ventilator does not turn on, despite the fact that the power is on.
   - Check whether the charger is properly connected to the batteries.
3. Red LED on the battery charge indicator lights up permanently and the green LED flashes, lack of charging signal despite the fact that the power is on.
   - Check the antipolarising fuse.
   - Check the connection with batteries.
   - Check the polarisation of batteries.
   - Check whether the batteries are properly located.

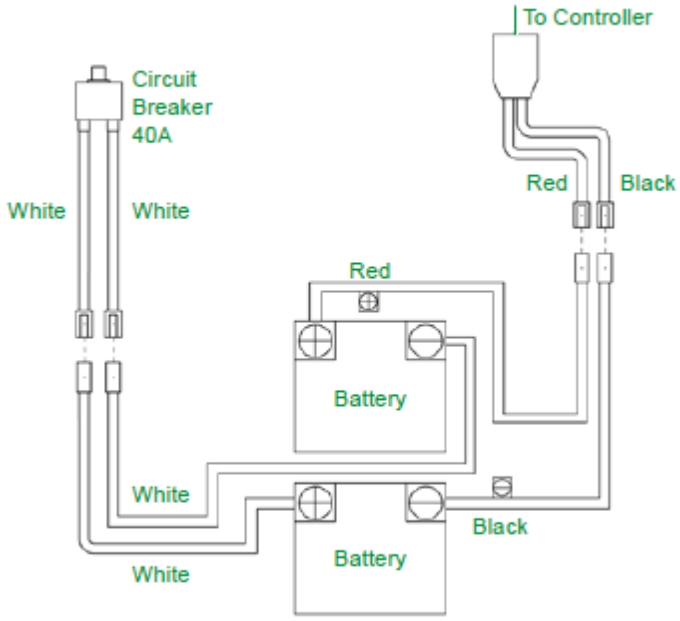
BATTERIES

1. The wheelchair is equipped with batteries with long lifespan. Batteries are sealed and they do not require maintenance (the so-called maintenance-free batteries).
2. The following situations can cause increased energy consumption and hence decrease the range of the wheelchair: ascending hills, overload, winter.
3. Observing the following principles will allow to prolong the lifespan of batteries:
   - Avoid complete discharge of batteries. Charge the battery after everyday use.
   - During first charging, disconnect the plug after 40 hours, when the battery is fully charged.
   - IF you are not using the wheelchair on regular basis, to maintain durability of batteries, charge them every three days, observing a full charging cycle.



ATTENTION

1. Do not take the cover out from maintenance-free batteries. It is not allowed to add water to the battery.
2. Leak of acid from the battery may cause burns or loss of vision. In case when the acid from the battery comes into touch with the skin, eyes, garments or any other object, rinse it thoroughly with running water and immediately report to undergo medical consultation.
3. Do not use other batteries than the original batteries attached to the wheelchair, as this may result in product damage.
4. Make sure that during transport, both the wheelchair and batteries are properly secured.
5. Batteries are subject to wearing and that is why the range of the wheelchair will decrease.
6. It is essential to exchange the battery when the range of the wheelchair decreased by half, despite complete charging of the battery.
7. It is essential to change both batteries at the same time, in order to ensure their long-lasting and effective functioning.



ATTENTION

1. Faulty connection of the battery may cause battery damage.
2. In case when the battery is exposed to low temperatures (it is frozen), do not try to recharge the battery.
3. In case when the battery freezes, it is essential to leave it for several days in room temperature in order to warm the battery and then charge it.

In case when you have any doubts concerning how to change the battery, contact the service department or the manufacturer.

MAINTENANCE

In order to ensure long-lasting and efficient activity of the wheelchair, it is essential to perform fundamental maintenance activities and reviews conducted by the service department. Reviews should be performed once a year.

In case of any doubts or damages, contact the service department, as the service centre has all competencies required to solve your problem.

Annual review

The review should be performed in the service centre. The review aims to confirm that the wheelchair functions without impairments, all its systems (electric, electronic, drive system) function without problems. It also enables to prevent possible complications resulting from impairments within any of the systems. The review should include:

1. Tyre control.
2. Control of batteries and their connections.
3. Control of the activity concerning the control panel (electronic system).
4. Frame control.
5. Control of the upholstery condition.

Utility remarks

1. Protect the control panel against severe shock and impacts.
2. Protect the wheelchair against long-lasting exposure to high and low temperatures and humidity.
3. Keep the control panel and control shifter clean.
4. Protect the wheelchair against direct contact with water.
5. Keep the frame and the upholstery clean. If the frame or the upholstery is dirty, clean it with a soft, dry cloth. Do not wash it with any abrasive materials. Do not use any washing agents directly on control panel, batteries or electric parts.
6. Apply oil on wheel axles every three months.
7. Use only the batteries supplied by the manufacturer with the wheelchair. In case when you want to change batteries, contact your distributor.
8. Load your batteries on regular basis. Always make sure that the charger is properly connected to the socket. Do not disconnect the charger by pulling the cord.
9. Control the activity of control shifter when the control panel is deactivated. Check whether the shifter is not damaged, and check if it returns to neutral position. Check the rubber covering the control shifter, making sure that it is not damaged. In case if you discover any damage, do not try to solve it individually, but contact the service centre.
10. Check all cords. If you discover any damages (chafing, tearing), contact the service centre.
11. Make sure that the control panel has been properly fixed.
12. Store the wheelchair in a dry place, long exposure to humidity may result in corrosion of frame elements and damage of the electronic system.



ATTENTION

If you observe any problems related with the motor, charger, control panel or damage of the wheelchair frame, immediately contact the service point.

In case of any problems or impairments related with the functioning of the wheelchair, contact the service point, which will help you to determine the future manner of proceedings.

Enjoy a safe and comfortable use of our wheelchair!



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