

User Manual

LEVO LCEV Kid & Junior



CE

Please read these User Instructions carefully before operating your wheelchair! Failure to follow these instructions can result in serious personal injury and/or damage to the wheelchair! This is a type-approved medical device. Alterations to the construction or electronics will void the warranty and the product liability.

In case of difficulty please contact:

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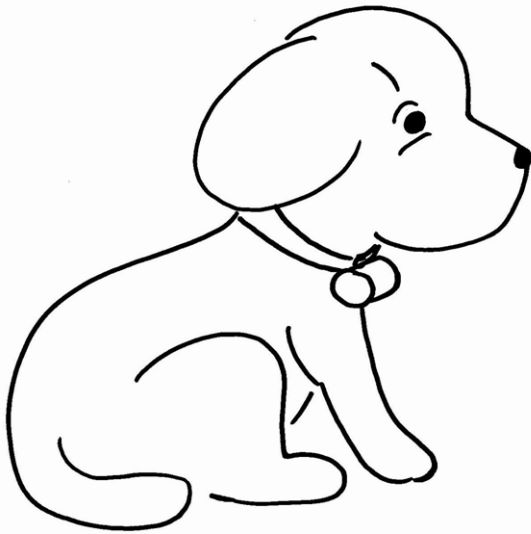
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Important!

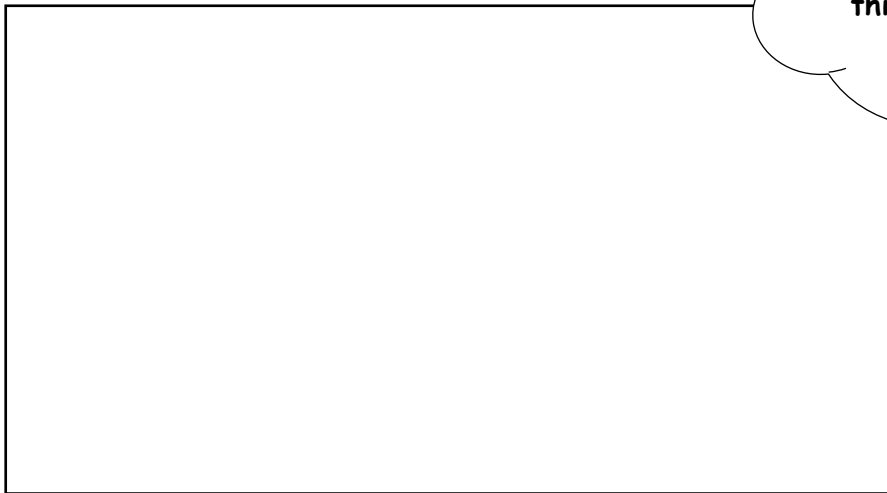
- **Contact your dealer, agent or LEVO AG if you have a visual impairment.**
- **LEVO strongly recommends that attendants or wheelchair users**
 - a) **fully acquaint themselves with the instructions for their device**
 - b) **always have access to 3rd-party assistance in case of emergency.**

Kids' page



My name is **BERNIE** and I'm your friend. I know many kids, who have a wheelchair. I gladly sit beside them and put my head in their lap. When you stand up in your wheelchair and hold up a goody, I jump up, to catch it. That's my favourite game. What games do you like to play

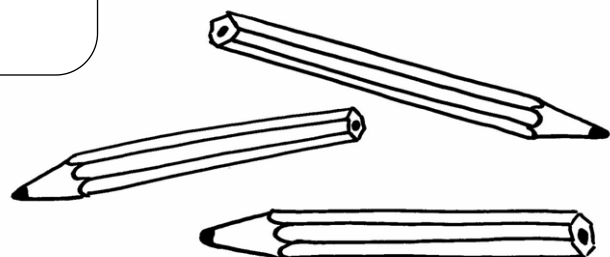
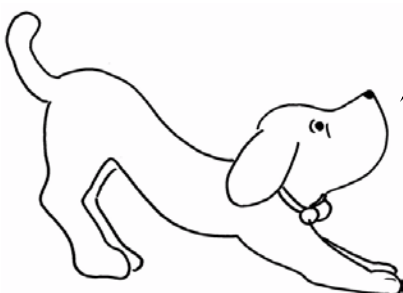
Paint or write:

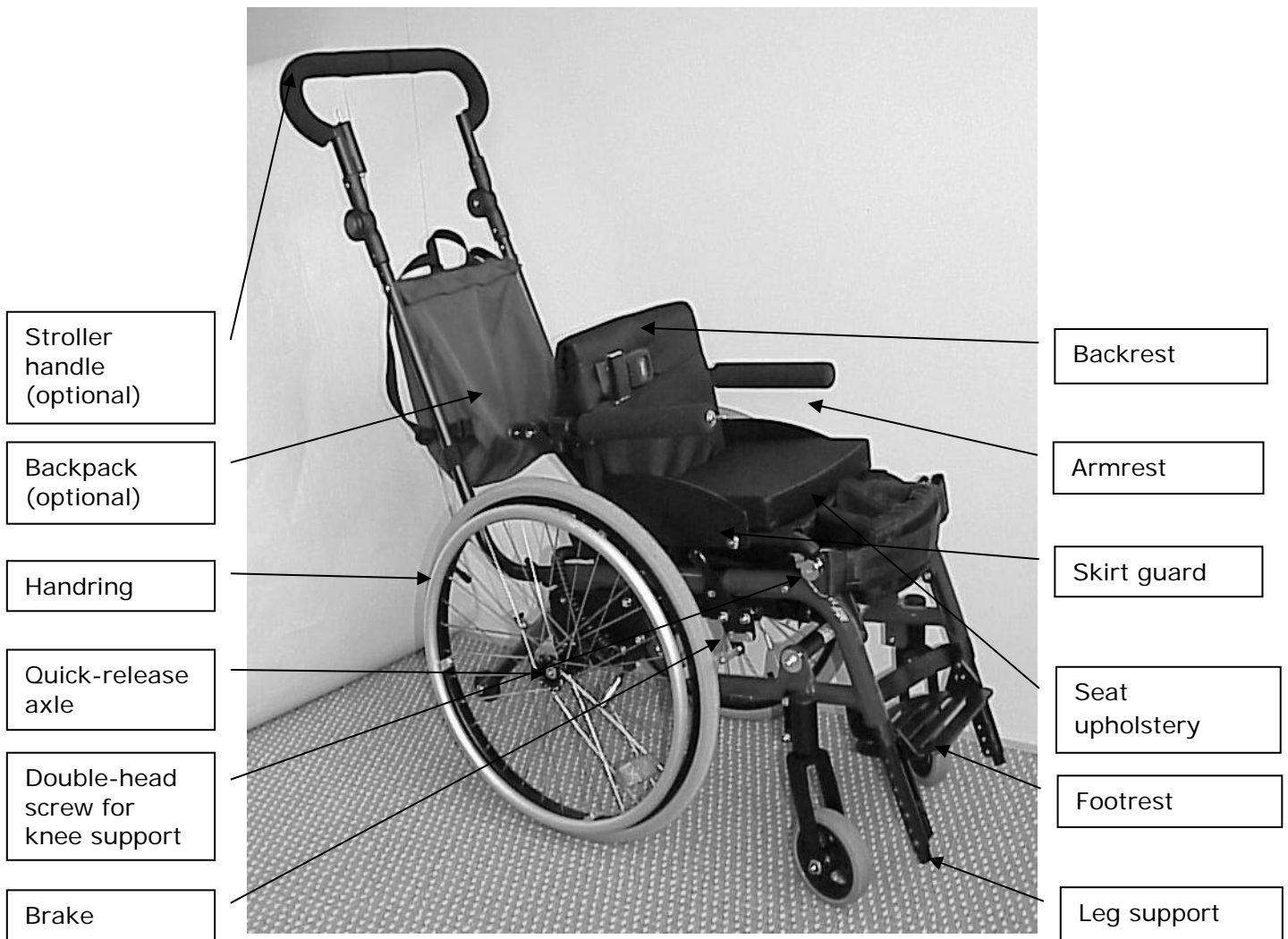


You'll find me on several different pages of the instruction manual. Look for me! **I have many interesting things to tell you!**

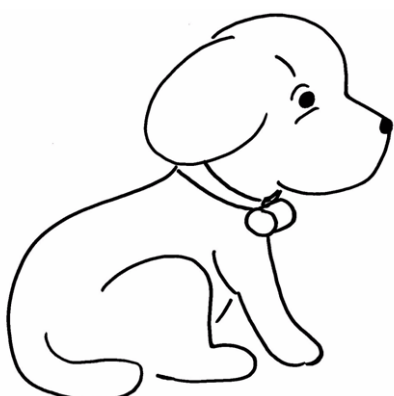


Paint my fur in many different colours!





LEVO KID & JUNIOR
Stand-up wheelchair
(In sitting-position)



That's what the parts of your wheelchair are called.



Stand-up operation for accompanying person (optional)

Plug & cable for stand-up mechanism

Battery and electronic unit

Double-head screw for knee support

Armrest

Chest strap

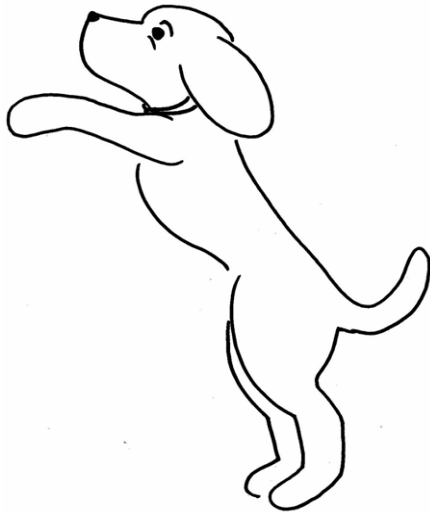
Control switch

Knee support

Calf strap

LEVO KID & JUNIOR
Stand-up wheelchair
(in standing-position)

With your wheelchair you can stand up and make yourself really tall.



1. General Information for Stand-up Wheelchairs

Dear Customer

We would like to thank you for putting your trust in **LEVO** stand-up wheelchairs.

The **LEVO** stand-up wheelchair is a unique aid for use by those facing difficulties walking and standing up. As well as performing all the functions of an active wheelchair, the **LEVO** enables you to stand up on your own.

Please read this Manual and the Instructions carefully before using your **LEVO**. They contain important information necessary for successful operation of the wheelchair.

Going into standing position may load the body in a way that the body is perhaps not used to.

Therefore ensure before using your stand-up wheelchair by your doctor or physical therapist that there are no contraindications such as strong contractures or osteoporosis present.

In the case of strong or sudden spasms, cramps or similar the user is allowed to stand under the supervision of an accompanying person.

Contact your LEVO dealer, agent or LEVO AG if you have a visual impairment.

Whether you use your **LEVO** as a stand-up aid in everyday life, or to help with standing exercises, it guarantees you optimum independence, mobility and health.

As a **LEVO** customer, you have a valuable contribution to make to the on-going further development of our products. We always appreciate your suggestions, which ensure that **LEVO** still offers the most comprehensive service available and provides for the widest possible range of needs.

Yours faithfully,

LEVO AG

2. User Profile - LEVO LCEV Kid & Junior

You are moving a lot and appreciate and need a compact manoeuvrable wheelchair with integrated electric stand-up function, which you optimal support in any situation at work or in your leisure time. The **LEVO LCEV Kid & Junior** is the ideal partner for people up to a maximum weight of 50kg.

The **LEVO LCEV Kid & Junior** combines all the qualities of a manual driven wheelchair with the convenience of safe standing using a fingertip. The stand-up mechanism will take you comfortably in different seat angle and standing positions up to 86 °, where it is needed to stand.

Depending on the user's condition the **LEVO LCEV Kid & Junior** is equipped with toggle switch or hand controller, which can also be operated by escort. The **LEVO LCEV Kid & Junior** allows users large and small to participate in life and enjoy maximum mobility.

A doctor, therapist or dealer must decide whether the **LEVO LCEV Kid & Junior** may be suitable for each individual user depending on visual and cognitive skills, environment and personal safety.

The following characteristics distinguish the LEVO LCEV Kid & Junior:

- Optimal biomechanics in all sitting and standing positions up to 86°
- Continuous rising in all positions between sitting and standing
- Manual stand-up unit one side or remote control
- Absolutely safe standing thanks to 6 contact points on the ground
- Medical and therapeutic benefits by regularly standing
- Excellent handling characteristics in indoor and outdoor use
- Individual upper / lower leg length, foot position and backrest height
- Seat widths: **LCEV Kid & Junior** 30 – 35 cm
- Seat depth: **LCEV Kid & Junior** 24 – 35 cm
- User weight max. : **LCEV Kid & Junior** 50 kg

LEVO LCEV Kid & Junior Standard Configuration

- Manual driven wheelchair, electric seat and standing function
- Seat and backrest upholstery
- Flip-up, height and angle adjustable armrests
- Armrest round with integrated control switch / battery-controller / charger
- Folding Backrest
- Standard colours: platinum, red, yellow, blue or black
- Two-piece flip-up footrest
- Rear wheels with pneumatic tires / pump
- Chest straps, side guards and knee support incl. wedge

Please ask your specialist retailers to get advice in detail or contact our national representative or LEVO AG.



Please be attentive to this sign. It indicates safety instructions or warnings to prevent personal injury damage to the product.

3. EC Declaration of Conformity



EC Declaration of Conformity

As manufacturer of the **LEVO** range of stand-up wheelchairs, the company

LEVO AG
Anglikerstrasse 20
CH-5610 Wohlen
Switzerland

declares under its sole responsibility that the Stand-up Wheelchair models

LEVO LCEV	Basic UDI-DI (GMN) 07613045 71
LEVO LCEV Kid	Basic UDI-DI (GMN) 07613045 41
LEVO LCEV Junior	Basic UDI-DI (GMN) 07613045 51

Product Class I

conform to all of the general provisions of MDR Medical Device Regulation (EU) 745/2017. The EN 12183 certification is in an update process.

This Declaration of Conformity includes all accessories and options of the **LEVO LCEV** and **LEVO LCEV Kid/Junior** and is according to Annex IV of MDR (EU) 2017/745.

The **LEVO LCEV** and **LEVO LCEV Kid/Junior** conform to 2011/65/EU and are tested according to EN 12183:2014.

The EU Authorized Representative for the MDR (EU) 2017/745 is: be-on-Market GmbH, Lilienstrasse 33, D-91244 Reichenschwand.

2021-05-14 - **LEVO AG**

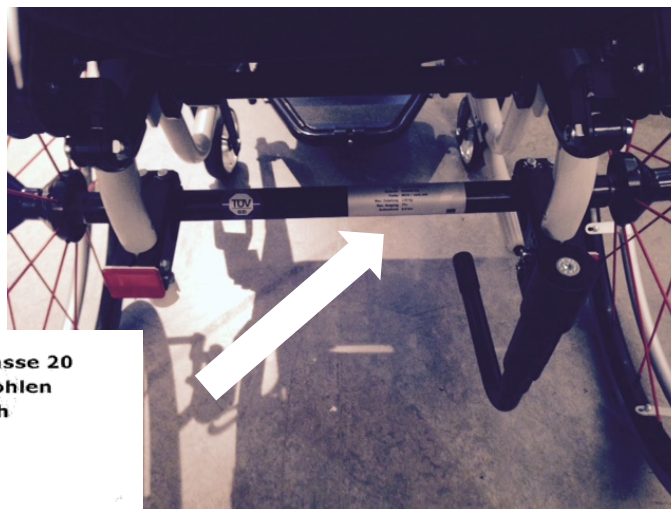
Daniel T. Johnson
CEO

Heinz Bögli
COO

4. Product Identification – Product Label

A unique serial number plate is attached to the wheelchair rear axle for identification purposes.

Although the adjustments according MDR are not finished yet by extended code GS1-128 and symbols on the label the device is absolutely identified by the serial number.



LEVO[®].dt
THE EXPERTS IN STANDING

LEVO AG
Switzerland
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CH-5610 Wohlen
www.levo.ch

Type LCEV/L-XL/50/57
Serial No. 715895 2014
Color platinum
Maximum load Max. user 120kg
Max. gradient Max. save slope 11°
Tyre pressure 6 - 7.5 bar



(01)761304503912(21)715895 2014

The following information includes the **LEVO LCEV** type plate as an example:

Identification	Example	Intent / Meaning	Visual aid
Type	LCEV/L-XL/50/57	Model LCEV/L-XL/50/57	
Serial No.	715895 2014	Serial No. 715895 Year of Production 2014	
Colour	platinum	Colour Platin	
Max. Load	Max. user 120kg	max. User Weight 120kg	
Max. gradient	Max. save slope 11°	max. save slope, unmoved, direction downhill 11°	
Tyre pressure	6 - 7.5bar	Recommended pressure range of pneumatic tires min. 6.0 bar - 7.5bar	

Please note that the exact identification is also indicated on the warranty card, which is delivered to your dealer and must be stored at dealer side. Please ask for a copy to assure the Identification respectively to refer to the Serial-No. for any kind of communication.

5. Meaning of symbols



Please read these instructions carefully before using your wheelchair!
 Failure to follow these instructions can result in injury or damage to the product!



Symbol of a wheelchair which is not used as a seat in a motor vehicle or to transport in a motor vehicle. Please contact your dealer about available equipment.



Symbol of a wheelchair which is equipped as a seat in a motor vehicle or for general transportation in a motor vehicle.



Moving parts! Please take care in the areas marked to avoid pinching or crushing of hands, fingers or clothing. Especially during the use of the stand-up device and between armrest and seat unit. Protect yourself and any attending person to avoid injury!



The wheelchair should not be lifted by the armrests.



The product is in conformity with the provisions of the Medical Devices Regulation MDR (EU) 745/2017 and carries the CE mark.



6. Important Safety Information before using your wheelchair

The stand-up wheelchair **LEVO LCEV Kid & Junior** offers manual driving with integrated, electrically-powered stand-up actuators. The operation of the standing mechanism is with a rocker switch positioned for the passenger or an accompanying person. The whole allows for manual driving while seated and assisted standing up to 86° while stationary.

Please note: Going into the standing position may load the body in a way it is not used to. Before use (or, even better, before purchase), consult your doctor or physical therapist and make sure that there are no contraindications such as strong contractures or osteoporosis. Without a prescription by your doctor or physical therapist, there are risks of high injury and must be strictly followed.

In the case of strong or sudden spasms, cramps or similar, the user should only stand under the supervision of an accompanying person.

A doctor, therapist or dealer must decide whether the **LEVO LCEV Kid & Junior** may be suitable for each individual user depending on visual and cognitive skills, environment and personal safety.

Please take care to avoid being pinched or squeezed by the mechanism during elevating or when returning to the seated position. Especially care should be taken with the sections between the seat and the mainframe to avoid injury.

The **LEVO LCEV Kid & Junior** must be placed on level and solid ground before operating the standing mechanism. (Caution risk of tipping over!).

The brakes of the **LEVO LCEV Kid & Junior** must be activated before operating the standing mechanism. (Caution risk of tipping over!).

The standing mechanism should not be operated without a person in the **LEVO LCEV Kid & Junior**. (Risk of accident)!

It is absolutely essential to mount the knee support and the chest strap correct before you use the stand-up function! You should never go into standing without these safety restraints securely in place. (Risk of accident)!

The restraints must be worn over clothing to prevent skin irritation. The **LEVO LCEV Kid & Junior** should not be lifted by the armrests. The armrests are designed for high pressure downward load but not for tensile loading from above.

The wheelchair must always be driven in the completely seated position so that the load can be distributed to the frame. Otherwise there are risks to damage the seating system.

Please avoid any unusual loads like torques or shear forces. Additional load at the armrests or backrest, fixing for transport without the dedicated equipment etc. is to be avoided! The wheelchair could be damaged with risk of personal injury.



Alterations and adjustments to the mechanics or the electronics should only be undertaken by a **LEVO** dealer.

All available standard sizes guarantee the passage of escape routes marked as wheelchair accessible. Please note and ask about escape routes. Size-dependent adjustments are therefore strictly forbidden as these may cause significant risk.

All adjustments outside the standard configurations which convert wheelchair characteristics are strictly forbidden as these risk serious injury.

Be aware that the surface temperatures can increase when exposed to external sources of heat (e.g. sunlight).

Please prevent exposing the wheelchair to extreme heat. The wheelchair should be dried frequently in salty or humid conditions.

The resistance to ignition of materials and assemblies are as follows:

- Plastic parts according to UL 94-V0
- Upholstery according to EN 1021-2

Please note that your wheelchair can be exposed to electromagnetic fields that can cause interference with the control or operation of the standing actuator function.

Please note that all product safety information can be obtained on our website, from your dealer and in this user manual. In case of product recall, you will be informed by your dealer. **LEVO** products are sold exclusively through dealers.

An owner or user of a **LEVO** product acquired second hand or outside of the **LEVO** dealer chain should imperatively contact **LEVO** or a dealer for safety upgrades and correct fitting.

Please note that the product life under normal use and care is between 7 and 10 years. If the wheelchair is used badly, or not according the instructions, the life may be shortened.

7. Warranty

Your **LEVO** product has two years warranty on all material and manufacturing defects from the date of sale.

Batteries are excluded from the warranty.

LEVO AG will not repair or replace parts under warranty if improperly used or maintained.

Changes of a constructional or technical manner are prohibited; otherwise no warranty or liability will be accepted.

Warranty claims should be addressed to your dealer or agent.

Addresses and telephone numbers can be found on the front page.



It is possible to adjust many things on your wheelchair and you can even take some parts away.



8. Seating adjustments

All **LEVO** wheelchairs are custom made and come fully assembled. Adjustments to the axles and the seat support may only be conducted by your local specialist dealer. The same applies to other general adjustments such as the tilt angle of the chair.

Any alteration to the wheelchair or disregard for the weight limits can lead to major injury. Contact your **LEVO** dealer whenever in doubt.

8.1. Rear wheels

The **LEVO LCEV Kid & Junior** is equipped with low rolling resistance tires. The seat height settings define the settings for the wheel diameter. The quick release axle enables the user to dismount and remount the rear wheels easily.



8.2. Seat inclination

The standard pre-set angle of inclination is approximately 5° to the rear. By altering the height of the axle holder it is possible to re-set the backrest angle between 2° and 8° to the rear. To ensure these alterations do not compromise safety in the standing position, the front wheel forks must be adjusted appropriately. These adjustments should only be carried out in by a **LEVO** dealer!

8.3. Position of the rear wheels

By positioning the axle further forwards, further backwards, up or down, you are able to increase or decrease the tendency to tip over. To avoid accidents (tipping over) we recommend the fitting of anti-tip wheels. Please consult your **LEVO** dealer!



8.4. Position of the front wheels

The correct positioning of the front castors and fork height depends on the height of the rear wheels and is crucial in ensuring a safe standing position. Please consult your **LEVO** dealer!

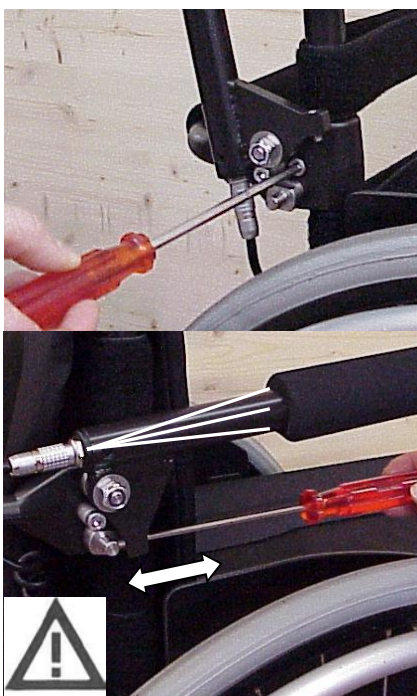
8.5. Backrest inclination

The back is set as standard at a right angle to the seat surface. The backrest angle cannot be independently adjusted.

8.6. Armrests



Adjust the height of the armrest moving the backrest connector together with the armrest joints along the backrest tubes up or down (see photo left).



The height of the armrests is fully adjustable.

Take off the backrest upholstery. Take off the velcro straps above the armrest joints to adjust the armrests higher, or the ones below the armrest joints to adjust the armrests lower.

Loosen the cylindrical screw on either side of the armrest joints (see photo left).

To raise the front end of the armrest screw the threaded pin clockwise further into the armrest joint (see photo).

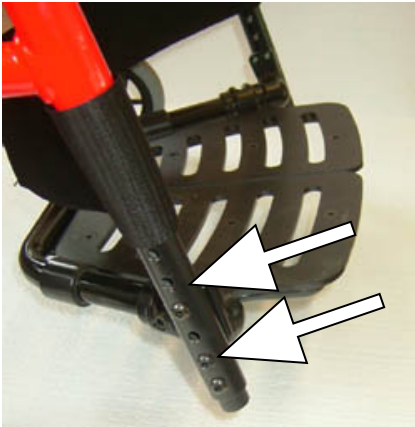
To lower the front end of the armrest screw the threaded pin anti-clockwise out of the armrest joint (see photo left).

8.7. Footrest

The height of the footrest is important both for the correct sitting position as well as for the standing position. The footrest is set according the lower leg rest specified in the original order form.

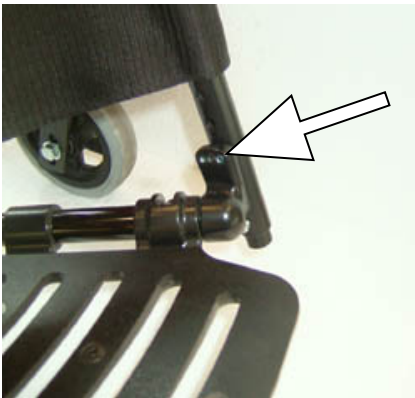
Contact your LEVO dealer regarding any adjustments.

There are 5 different height positions for mounting the footrest.



- Unscrew the four oval head screws at the out side of the footrest using a 4 mm hex key and set the footrest either higher up or lower down.

There are three possible footrest angle positions:



- Foot angle 100°
- Foot angle 90° (Standard)
- Foot angle 80°
- Release the four screws at the out side of the footrest using a 4 mm hex key and remove the upper ones. Set the footrest at the required angle and tighten the screws.

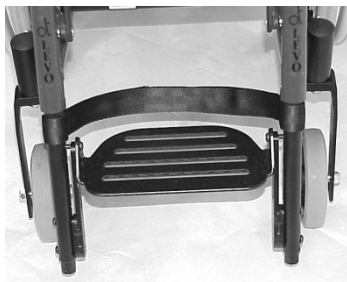
The footrest is set at 14° to the floor as standard. With the footrest at the lowest height setting, an angle of 4° is the only practicable setting as the footrest otherwise touches the ground before the leg supports which reduces the standing stability!

With the second lowest height setting, the only angles possible are 4° and 14°, for the same reasons.

For all higher footrest settings there are all three angle variations possible.

Caution: Check the standing stability to ensure there is no tipping movement towards the front.

8.8. The calf/heel strap



The purpose of the calf/heel strap is to prevent the legs and/or feet slipping backwards. It is fitted behind the heels or higher (see photo). By making use of the Velcro fastening it is possible to alter the length of the strap and thus to ensure the ideal position for the feet on the footrest. Ideal positioning of the feet is vital in ensuring a good standing position. Please consult your **LEVO** dealer!

8.9. Seat cushion

There is a choice of various different seat cushions, governed by your individual needs. The Velcro fasteners fitted to the surface of your seat should allow you to attach the majority of seat cushions securely. The Velcro fasteners prevent the cushion from slipping out of place even when you are standing up. The height of the footrest should be adjusted to take into account the height of a given seat cushion. Please consult your **LEVO** dealer!

8.10. Backrest and Seat Upholstery



The backrest upholstery can be adjusted using the Velcro fasteners. The backrest can be tightened (for a more upright seated posture) or relaxed (for more back support).

The seat upholstery can be similarly tightened or released by use of Velcro fasteners and should be as tightened as possible. Depending on the height of the cushioning, it may be necessary to loosen the upholstery to be able to lower the cushioning down between the two seat supports.

Depending on the seat depth, adding or removing one or two Velcro straps is required. When adjusting the seat depth please ensure that the flap of the backrest upholstery covers the seat by a minimum of 12 cm.

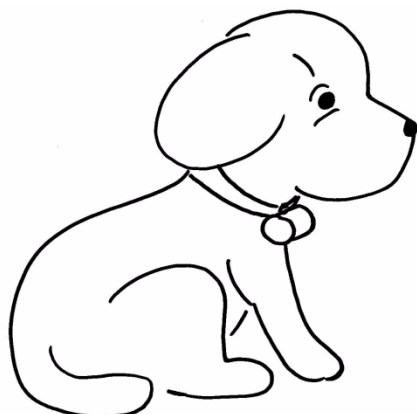


8.11. Chest Belt

The chest belt is fixed by Velcro at the backrest upholstery and adjustable in the height.

9. Adjustments for sitting and standing position

Adjustments for sitting and standing position must be carried out by your local LEVO dealer.



The brakes stop the wheelchair from driving away.



10. Brakes

The brakes lock the rear wheels to secure the **LEVO LCEV Kid & Junior** and prevent unintended movement.

Push both brake levers forwards to lock the brakes.

The efficiency of the brakes is dependent on tyre pressure and profile which should be checked regularly.

Caution: Wet tyres or surfaces also have a detrimental effect on brake efficiency.

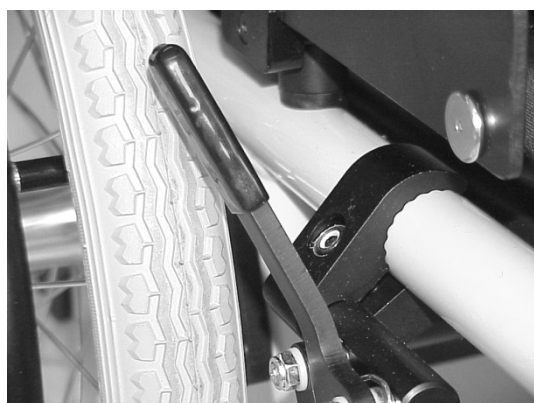
When altering the position of the wheel axle, be sure to re-adjust the brakes.

10.1. Adjusting the brakes

The wheelchair should be unoccupied when dismantling the brakes. Secure the wheelchair in such a way as to prevent it moving when the brakes are removed.

Release the brake as much as possible.

Release the cylinder screw on the brake itself (see figure below left).



Adjust the position of the brake and leave a gap of approx. 15mm between the brake shaft and the tyre, then tighten the cylinder screw (see figure above right).

Test that the brakes function correctly afterwards.

To increase the braking force, position the brake shaft closer to the tyre. To reduce braking, leave a larger gap between the brake shoe and the tyre.



11. Knee support and chest strap

The most important safety features are the knee support and the chest strap. It is essential to secure yourself every time you would like to change from sitting into standing position. **Caution: Carry out each step carefully before moving into the upright position to prevent injury.**

11.1. Knee support

The knee support holds the knees in an extended posture and prevents you slipping out of the wheelchair while standing up.

Attach the two eyes of the knee support to the double-head screws on either side of the wheelchair (see figure below left).



Centre the knee support in front of each knee using the Velcro fasteners, then pull it until it is sitting firmly in place, just below the knee cap and not too tight (see figure above right). The knee support should sit below and not against the knee cap.



11.2. Chest strap

The chest strap holds the upper body in place. Make sure that the strap securely fastened to the backrest.

To release the chest strap simply press the red button in the center of the catch.

Try to avoid wearing the chest strap on bare skin as the material will be under pressure and may cause dermal discomfort, irritation or even injury.



Note: You will probably need an assistant to adjust the chest strap at the back of the chair.

Once both support features are fitted correctly you are ready to stand up.



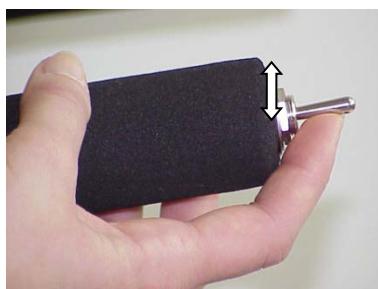
12. Stand-up

Depending on the age and ability of the user, the **LEVO LCEV Kid & Junior** could be equipped with the optional remote control which allows operation by an attendant as needed.

The stand-up mechanism is powered by an electrical actuator system. The actuator motor is powered by two rechargeable batteries.

The control switch on the armrest enables you to move the stand-up mechanism either up or down.

Remote control (optional): To stand up, hold the left-hand button down (figure below right). The seat starts to lift immediately. The motor shuts off when you release the button.



The motor shuts off automatically at the uppermost standing position. The leg support will rest on the ground to provide optimal stability.

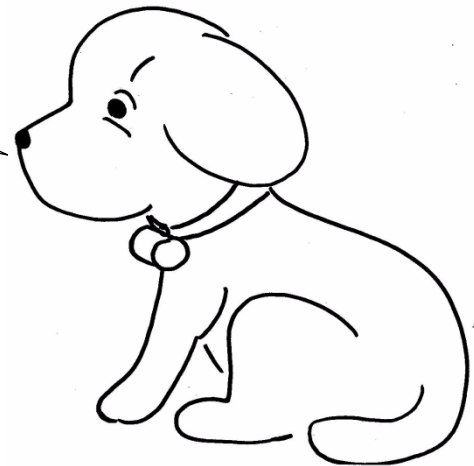
Please note that your wheelchair can be exposed to electromagnetic fields that can cause interference with the control or operation of the standing actuator function.

13. Sit down

To return into sitting position, hold the control switch down. The seat will start to descend. The moment you reach the lowest sitting position the motor shuts off automatically.

Remote control (optional): To return into sitting position hold down the right-hand button (see figure on the right above). The seat will descend. The motor shuts off when you release the button.

Pull the armrest switch up to stand. Push the switch down to sit. Let go to stop in between.

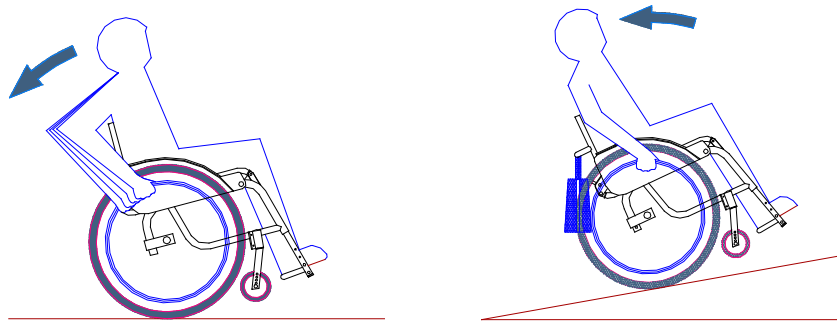




14. General Information on Use of a Wheelchair

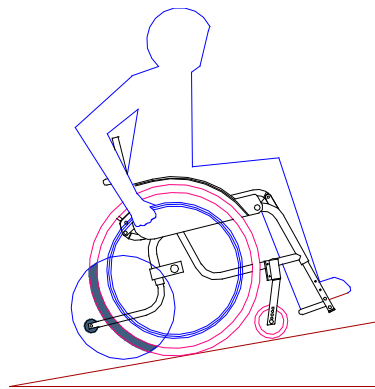
14.1. Driving the wheel chair: How to avoid tipping over

Please note that when starting pushing the wheel chair, the front wheels are going to lose traction due to acceleration. Depending on weight distribution this may cause the wheels to lift off the ground and the wheel chair to tip over backwards.



The situation mentioned above intensifies when using different rear wheel positions to achieve greater seat inclination, by too-vigorously engaging the drive wheel in the forwards direction or by using a cushion for elevated seating.

Please note that the weight of personal belongings (e.g. bags) can have a major effect on the centre of gravity of your wheel chair which may lead to increased instability.

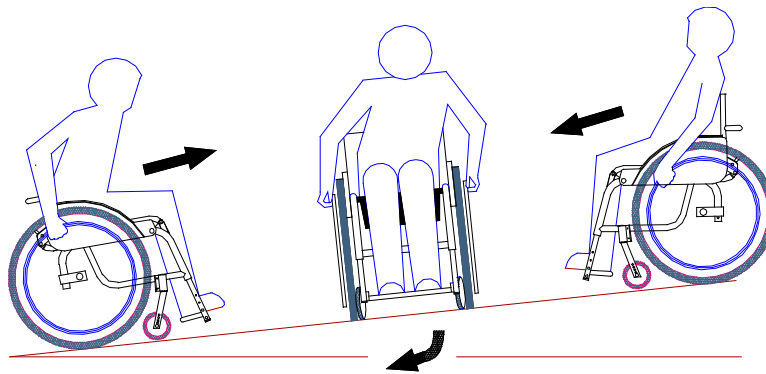


For more security while driving the installation of an anti-tip mechanism is strongly advised.

14.2. Gradients



Bear in mind that, when turning around on a steep hill, you will pass through a crosswise position first before the turn is completed. Whilst in the crosswise position, there is a risk of slipping sideways down the hill. Both you and any assisting person should be aware of this risk and counter steer accordingly.



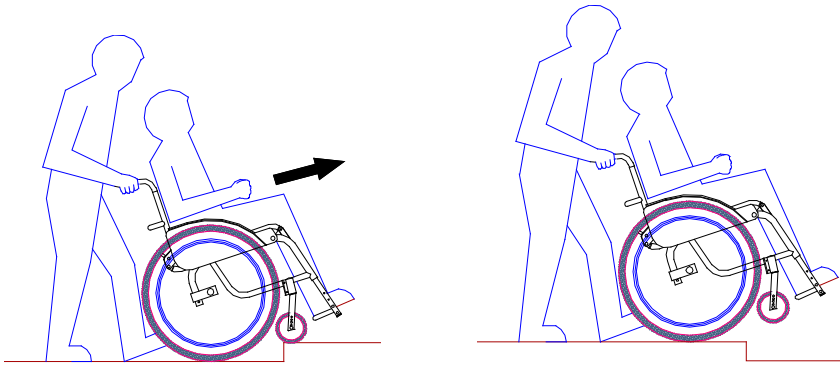
As a safety precaution, always ask a person to accompany you when manoeuvring down a slope. Bear in mind that slowing the wheelchair using the hand rims generates a great deal of heat between hands and the hand rim itself and can lead to burns on the palms of the hands. Therefore proceed cautiously when braking manually and, most importantly, when travelling downhill, never go faster than walking pace. Leaning backward improves stability and increases rear wheel downforce, thus also improving braking efficiency.

14.3. Climbing obstacles

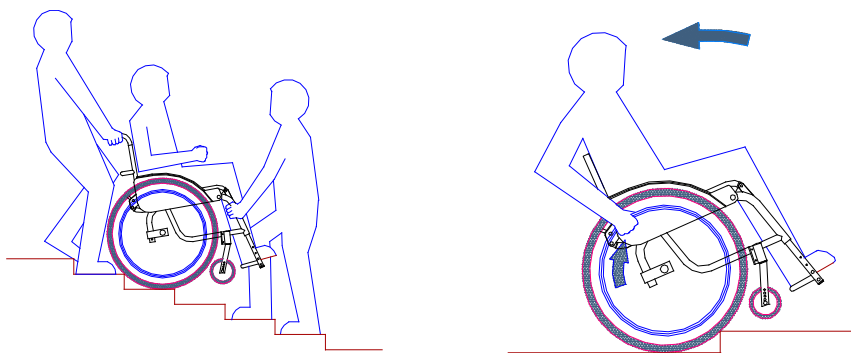
Any obstacle, such as a curb or threshold, should be viewed as a potential source of danger. This is due, in part, to the very short wheelbase of the wheelchair. To climb an obstacle, ask an accompanying person for assistance.

Should you wish to negotiate such an obstacle with the help of an accompanying person they should not attempt to lift the wheelchair completely. It is important that they make sure that the rear wheels stay in contact with the floor all the time.

To overcome an obstacle (e.g. driving over a curb), first tilt the wheelchair just enough to lift the front wheels. Slowly lower the front wheels onto the obstacle and then push the wheel chair on until the large wheels are resting against the edge of the obstacle. Finally move the chair onto or over the obstacle.



To descend a major obstacle (e.g. to go down stairs), always use an assistant! The assistant should first tilt the wheelchair until the front wheels are off ground slightly, then move the chair forwards slowly.



Should you have to be carried over certain obstacles, please make sure to request the assistance of at least two persons. It is of great importance to inform the assistants that the wheelchair should be lifted by the solid parts only.

CAUTION:

- **Disregarding these instructions is to risk a major accident or injury!**



Keep in mind that handling any sort of obstacles on your own can be very demanding. You should be aware of the tendency of the wheelchair to tip over backwards when attempting to overcome an obstacle. Do not hesitate to ask for help at any time.



CAUTION!

Do not attempt to use the wheelchair on an escalator!

14.4. Activating the Brakes

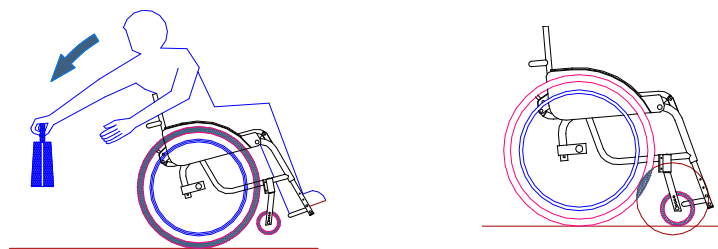
When using the wheelchair in situations where increased stability is particularly important, the brakes must be activated. This is especially important when standing up, transferring into your wheelchair or when you want to transfer yourself from the wheelchair into another seat. For safety reasons, it is particularly important to note that even though the wheelchair may be locked securely it can still slip away sideways.

Keep in mind that insufficient tyre pressure or heavily worn out tyre treads have a detrimental effect on braking efficiency.

After driving through a puddle keep in mind that wet tyres reduce braking efficiency.

14.5. Picking up objects

Always remember that picking up objects will alter the centre of gravity which will affect the stability of the chair. This can cause the wheelchair to tip over, either backwards (see figure on the left), sideways or forwards. In the latter case, enlarge the wheelbase by positioning the front wheels in the same way they are positioned when driving backwards. It is also advisable to draw as near as possible to the object before attempting to pick it up.



14.6. Transfer sideways

- Drive as close as possible to the object you wish to transfer to.
- Make sure that the brakes of the wheelchair are tightened
- Flip up the footrest of the wheelchair and put your feet on the ground.
- Lift the armrest on the side you are transferring to.
- Transfer yourself in your usual way out of the wheelchair or have yourself transferred out of the wheelchair.
- Lateral transfer is only in the complete sitting position of the wheelchair allowed.

14.7. Detachable components

Please note your wheelchair is designed to detach components to guarantee the lowest possible packing volume and weight. The detachable components are listed as follows:

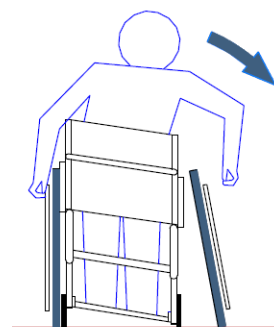
Detachable components	LEVO LCEV Kid & Junior Weight reduction
2 main drive wheels	2x ca. 1.3 kg
2 front wheels	2x ca. 0.4 kg
1 footrest or leg-rest	1x ca. 0.7 kg 1x ca. 1.0 kg
1 battery – control unit	1x ca. 2.5 kg

Please take care not to trap any clothing or parts of the body in the joints of the wheelchair as you are folding the backrest.

You should only occupy the wheelchair once it has been fully reassembled with all detachable components securely fixed in place.

Always make sure that the rear wheels have been securely fixed and cannot get loose while the wheelchair is moving.

Make sure the wheelchair is lifted by gripping the main frame only.



Caution: Do not lift the chair by gripping the armrests, the backrest or the seating tubes as this might lead to major damage.

14.8. Public transport of the wheelchair - wheelchair only

The **LEVO LCEV Kid & Junior** wheelchair can be transported in every kind of public transportation including in airplanes without any restrictions.

If the wheelchair is not allowed to be transported, the following label will be attached to the frame:





15. Components

15.1. Batteries

The motor is fed by two rechargeable, maintenance-free lead batteries. With fully loaded batteries you can stand up approx. 100 times.

A buzzer sounds to indicate when the batteries are down to 25% of their full charge capacity. On hearing the buzzer, be sure to recharge the batteries immediately.

Note: Make sure that the batteries do not stay completely discharged over a long period of time as this could lead to irreparable damage.

Caution: The stand-up mechanism must not be operated while the batteries are recharging!



15.1.1. Recharging the batteries

Note: Only use the original battery charger. The use of other chargers may damage the charge cycle.

To recharge the batteries, unplug the control cable from the armrest and plug the charger plug from the charger into the control cable and the charger itself into the mains (see figure on the left below).

Remote control (optional): To recharge the batteries, plug the charger plug from the charger into the side of the control panel and the charger itself into the mains (see figure on the right below).



Option



Recharging the batteries takes about 6-8 hours.

The batteries should be recharged as often as possible, if possible on a daily basis.

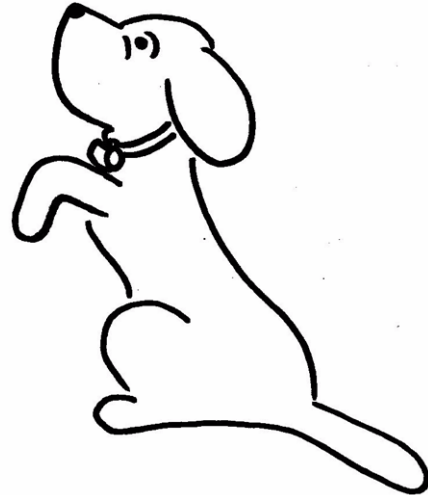
Caution:

- In any situation demanding particular care and attention, e.g. when in transit (in motor vehicles, aircraft, etc.) or when the wheelchair is to be left unattended in

the presence of children, be sure to disconnect the control cable and/or motor leads from the battery and electronic unit (Risk of accident!).

- Disconnecting the control cable prevents children or other unauthorized persons tampering with the stand-up mechanism.
- Disconnecting the motor leads cuts the electricity supply to the motor and prevents the stand-up mechanism being activated unintentionally.

From time to time you have to reload the batteries so you are able to stand up continuously with your wheelchair.





15.2. Quick-release axle

The quick-release axles enable you to remove and re-mount the rear wheels of your **LEVO LCEV Kid & Junior** quickly, thus reducing significantly the volume and weight of the wheelchair.

When removing a wheel, the wheelchair must be unoccupied. The wheelchair should be supported in a way that it cannot tip over nor roll away after removing the wheel.

Press the release button in the center of the wheel, then pull off or re-mount the wheel.

Having mounted the wheel, push and pull it several times to ensure the quick-release axle has fully engaged.

15.3. Rear wheels

The rear wheels of the **LEVO LCEV Kid & Junior** are equipped with pneumatic tyres or airless tyres. Ask your dealer for suggestions concerning specific adjustments or custom made tyres.

Please make sure to check the tyre pressure regularly. The optimal pressure is 6.0-7.5 bar or 600-750 kPa.

15.4. Front wheels



To remove the front wheels (together with the front forks), press the quick-release axle from underneath, then pull off the forks (see photo).

After reinstalling the front wheels please make sure that they are fitted correctly.





16. Maintenance and Functional check

To keep the **LEVO LCEV Kid & Junior** running perfectly and to ensure personal safety and proper operation, please ensure your wheelchair is being serviced by your local **LEVO** dealer at least once a year and observe the following rules:

- **In general** please keep the wheelchair clean, never store it when damp.
- **Charge the batteries daily**. Best is to charge every night to assure the batteries are fully recharged for use during the whole next day. When charging, the LED lights up red and signal in green when the battery is fully charged.
- If the battery power decreases to a threshold low level, an acoustic signal will sound during operation. Please **immediately** go into sitting position and charge the batteries immediately to full power.
- Check the control switch or remote control **every day** to assure the operation moves the actuator without any delay. In case of irregularities, please go into sitting position and notify your dealer.
- Check the tire pressure **every week**. If necessary pump the tires up to 6.0 – 10 bar.
- Check the condition of the main and front wheels **every 2–3 months**. If a tire is heavily or unevenly worn, it should be replaced immediately.
- Check **every week** that the brakes still work reliably. Having applied the brakes, the wheels should stop turning completely. If the brakes are ineffective, they should be tightened and checked by your dealer.

If any faults are found, **immediately** inform your dealer before further using of the chair.



16.1. Functional check

Please make sure that the wheelchair is being maintained at least once a year by your **LEVO** dealer to assure and to guarantee the safe functioning of the chair.

The **LEVO LCEV Kid & Junior** is delivered already greased. Additional greasing should only be carried out professionally by your dealer.

For your chair the dealer should provide a service card in which all details of necessary maintaining or repairs are noted.

The following general functional check should be made before and after maintenance:

- Function of the armrest switch or remote control and cabling
- Function of actuator.
- Function of the charging unit (green LED light)
- Braking effect when driving uphill (Inclination: 8 degree)
- Braking effect when driving downhill (Inclination: 11 degree)
- Check all screws are securely fastened

17. Cleaning

- In case of soiling the wheelchair can be cleaned with a moist cloth. Wipe it dry well afterwards.
- In case of heavy soiling use a mild detergent and warm water for cleaning.
- Never apply furniture polish, pure spirit or solvents for cleaning.

18. Storage

18.1. Storage in general

The **LEVO LCEV Kid & Junior** is equipped with a folding backrest which allows you to reduce significantly the space required to store.

To fold down the backrest, first remove the two skirt guards. To do this, slightly slide back the two skirt guards and pull them up and off.

Two quick release bolts secure the backrest, on either side on the inside of the backrest joint (picture below left). To remove the bolts press the button in the centre of the bolt and pull out of the backrest joint on either side.

Fold down the backrest forward (picture right).



18.2. Storage for more than 4 months

The **LEVO LCEV Kid & Junior** is essentially maintenance-free, and the user must only pay attention to keeping it clean. If the wheelchair is stored for more than 4 months or exceeds the recommended maintenance cycle deadlines, it must be checked in accordance with the Maintenance and Functional checking instructions in section 6 before use. Please note that the temperature range of storage is minimum 5 °C to maximum 50 °C.

19. Disposal

- At the end of its service life the wheelchair should be returned to your **LEVO** dealer for proper disposal.
- Used batteries should also be returned to your **LEVO** dealer or to the place where they were purchased.

20. Technical Information

	Min.	Max.
Overall Length (with footplate)	690 mm	865 mm
Overall Width	490 mm	540 mm
folded Length (without wheels)	690 mm	725 mm
folded Width (without wheels)	490 mm	500 mm
folded Height (without wheels)	400 mm	400 mm
max. Weight	20 kg	21 kg
Mass of the heaviest part	13.5 kg	14 kg
Static stability downhill, sitting position	12°	15°
Static stability uphill, sitting position	4°	11°
Static stability sideways, sitting position	15°	15°
Break effectiveness uphill	--	8°
Break effectiveness downhill	--	11°
Seat plane angle	0°	8°
Effective seat depth	240 mm	350 mm
Effective seat width	300 mm	350 mm
Seat surface height at front edge	300 mm	410 mm
Backrest angle	-5°	13°
Backrest height	240 mm	390 mm
Footrest to seat distance	190 mm	410 mm
Leg to seat surface angle	90°	100°
Armrest to seat distance	100 mm	220 mm
Main wheel diameter	560 mm - 22"	660 mm - 26"
Hand rim diameter	325 mm	480 mm
Minimum turning circle	750 mm	900 mm
Tire pressure	6 bar / 600 kPa	7.5bar / 750 kPa
Temperature for use	+5°C	+40°C
Temperature for long term storage	+5°C	+50°C
available wheel dimension: D22x1", D24x1", D26x1"		



21. Trouble shooting

21.1. General operation

	Fault	Rectification
	<ul style="list-style-type: none"> Wheelchair does not run in a straight line or all four wheels are not touching the ground 	<ul style="list-style-type: none"> Pump up or replace the tyres. See Technical Data above. Have a technician check and if need be adjust the rear wheel axle mounting, front fork mounting, etc.
	<ul style="list-style-type: none"> Discomfort in seated or standing position 	<ul style="list-style-type: none"> Have a technician check and if need be adjust the rear wheel axle mounting, front fork mounting, etc.
	<ul style="list-style-type: none"> Leg supports don't rest on the ground in the uppermost standing position 	<ul style="list-style-type: none"> Caution: This is an unsafe situation. Adjusting the rear wheels up on the rear of the frame may correct this situation. Adjustment or modification to the leg support down posts may also be necessary.
	<ul style="list-style-type: none"> Wheelchair tips over backwards too easily 	<ul style="list-style-type: none"> Have a technician check and if need be adjust the rear wheel axle mounting, front fork mounting, etc. Attach anti-tip rollers (see accessories)
	<ul style="list-style-type: none"> Brakes do not brake effectively 	<ul style="list-style-type: none"> Have a technician check the inflation and wear of the rear wheels and adjust the brake mounts as necessary.

21.2. Stand-up mechanism

	Fault	Rectification
	<ul style="list-style-type: none"> Mechanism works only very slowly 	<ul style="list-style-type: none"> Recharge batteries Have batteries replaced
	<ul style="list-style-type: none"> Mechanism inoperable (neither up nor down, no perceivable motor noise) 	<ul style="list-style-type: none"> Connect motor lead with battery and electronic unit Connect control panel with battery and electronic unit Recharge batteries Replace Batteries - control panel - motor – battery and electronic unit - charger

22. Version Management

Version-No.	Date	Description	Release
1.0	2016-01-06	TÜV-Update Test according EN 12183:2014	HB
2.0	2021-05-20	MDR Adjustments	HB
2.1	2021-06-09	Separate document as per ISO 7176-15 section 3.9	J. Carmichael