

PARAVAN®

PARAVAN WHEELCHAIR SERIES

User manual
PR 30

 **EN** v3.5



Valid for the following model
Publisher and Copyright:
Date of issue:
Document number:

Paravan PR 30
PARAVAN GmbH
03/11/2023
PR30_V3.5 EN

Dear customer,

Thank you very much for having chosen our PR series PARAVAN electric wheelchair.

You will find all the important information and tips you need on your new electric wheelchair in this User's Manual. Please carefully read the information on the pages to follow in order to make sure your electric wheel chair will give you many years of problem-free service. Keep this User's Manual in a handy place for later reference. Our user manual contains answers to questions relating to the operation and care of the electric wheelchair and its fittings. If you should have any questions or suggestions on the wheelchair, please do not hesitate to get in contact with us.

Your PARAVAN team

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1. Legal notice

1.1 Your manufacturer



Fig. 1: QR code

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Many smartphones and tablets have built-in cameras and software which allows the interpretation of QR codes, and with these you can directly transfer our contact information into your address book.

1.1.1 Copyright

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1.1.2 Technical status of this documentation

All details on technical data and/or specifications, illustrations and information in this User's Manual correspond to the status as on close of press in November 2023.

The User's Manual for the PR30 electric wheelchair was written in the German language and may be translated into other languages. In case of any inconsistencies, the German version shall be legally binding.

2. On this User's Manual

General

Information

Prepare

Operate

Help

Technology



Fig. 2: Direction of travel

This User's Manual does not represent product documentation in the sense of a set of maintenance and repair instructions, and is thus not suitable for use in executing maintenance and repair work by its possessor, or for instructing on how to execute such work. You are in receipt of information on the nature of the electric wheelchair model and on its use over its entire life cycle from transport (delivery) to decommissioning (taking out of service). Below are listed and described the product's most important features. All product features mentioned may be combined variously in different models, and functions and may differ from the standard version.



This User's Manual forms an integral part of this electric wheelchair product and must always be stored in the vicinity of the electric wheelchair in order to allow you to access the important information it contains quickly.



All page and directional indications made in the documentation are always given from the point of view of the operator in the direction of travel of the device.

2.1 *Disclaimer*

Only by observing and putting into practice the knowledge provided by this User's Manual can the electric wheelchair be guaranteed error and fault free operation. PARAVAN GmbH does not take any responsibility for or give any guarantee against damages or operational interruptions that may be caused during operation by the non-observance of the instructions contained in this User's Manual or by any modifications made to the electric wheelchair.

In order to ensure the fault-free operation of your electric wheelchair, please observe the maintenance instructions and intervals.



See Section "18 Care and maintenance"

2.1.1 Guarantee

Guarantee cover is defined exclusively by the relevant provisions set by PARAVAN.

Expressly excluded from guarantee entitlements is any damage resulting from:

- Wear and tear
- Inappropriate operation or usage; e.g. overloading
- Incorrect/Irregular maintenance
- Incorrect/Irregular care



See your personal "Guarantee card"

2.1.2 Technical alterations

Any modifications made to the safety equipment and technical changes to the electric wheelchair, however small, are absolutely prohibited. All alterations must be executed by PARAVAN GmbH.

PARAVAN GmbH reserves the right to make technical alterations and improvements to the product in the interests of our customers and due to advancing technology.



Any modification not approved by PARAVAN GmbH made to the electric wheelchair shall extinguish any warranty or guarantee entitlement. In addition, dangerously faulty functioning cannot be ruled out.



WARNING

Danger of personal injury when operating the electric wheelchair in a state not matching its state upon delivery.

Material damage to the electric wheelchair through non-authorized or incorrectly installed components.

- > Do not make any technical modifications to your electric wheelchair.
- > Only operate your electric wheelchair in its original state upon delivery.
- > Use only original or authorised replacement parts.
- > The operational condition of the electric wheelchair should be checked before any use of it.

2.2 Target groups

The operator must attain or acquire a familiarity with the following points before putting the electric wheelchair into operation:

- > Knowledge of the contents of the User's Manual on the how to use the vehicle, the electric wheelchair, safely and how to move it about.
- > Knowledge of the safety and operational rules contained in it and of how to recognise possible hazards and dangerous situations for the user him or herself and for the environment.



For their own safety, only trained and authorised persons should use an electric wheelchair. As a user, you have received sufficient instruction during the handover of the wheelchair. Contact us where necessary.



See Section "1.1 Your manufacturer"



See Section "23.4 Handover briefing"

2.3 Explanation of symbols

You will come across the following symbols and warning signs while reading the User's Manual.



The "Caution, Danger" logo

Calls your attention to danger points. The preventative measures contained in the associated text should always be followed. This symbol always appears with an associated signal word which indicates the degree of danger.

- > **Danger!** - Imminent danger to life and limb (irreversible).
- > **Warning!** - Possible danger to life and limb (irreversible).
- > **Caution** - Possible danger to life and limb (reversible).
- > **Caution** - possible material damage to the vehicle.



Additional information to the user, e.g. to make use of the electric wheelchair easier and/or to prevent material damage to the electric wheelchair.



This symbol refers the user to another section or more detailed documentation, e.g. to the annexes to this User's Manual.

2.3.1 Structure of safety notices

You can find the following information in the safety notes:

- > Warning or hazard symbol ①.
- > Type and source of hazard ②.
- > Signal word ③.
- > Consequences of occurrence ④.
- > Preventative action ⑤.

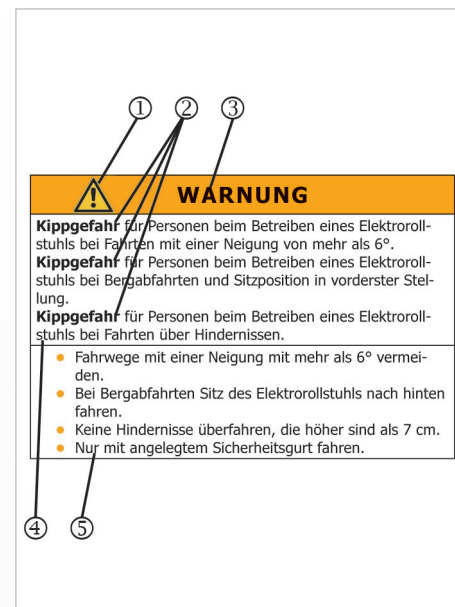


Fig. 3: Safety note

3. Safety note

3.1 General safety notes

3.1.1 Notes on usage

You must under all circumstances observe the following safety notes for your own safety, for that of people in your vicinity and to protect the environment.



DANGER!

- Danger** of crushing by contact with moving parts; e.g. Through the rotation of the drive wheels or the Lifting movement of the lift arm and the horizontal movement of the seat.
- Danger** of fall through accidental movement of the electric wheelchair due to the brake being left off.
- Danger** of fall through abrupt braking of the electric wheelchair where the vehicle loses power.
- > Do not make contact with moving parts.
 - > Accompanying persons should not make any contact with danger areas when operating the electric wheelchair.
 - > The brake release lever must be in the "LOCK" position.
 - > Never switch off or cut off power to the electric wheelchair while it is moving.



WARNING

Danger of tipping over for persons when using the electric wheelchair on surfaces with a slope of more than 10°.

Danger of tipping over for persons when using the electric wheelchair on downhill slopes with the seat position in its forwardmost position.

Danger of tipping over for persons when using the electric wheelchair when driving over obstacles.

- > Avoid paths with any inclination of more than 10°.
- > When travelling downhill move the electric wheelchair's seat to the back.
- > Do not drive over obstacles higher than 60 - 70mm.
- > Always drive with your safety belt on.



WARNING

Danger of personal injury when operating the electric wheelchair in a state not conforming to its state upon delivery.
Material damage to the electric wheelchair through non-authorized or incorrectly installed components.

- > Do not make any technical changes to your electric wheelchair.
- > Only operate your electric wheelchair in its original state upon delivery.
- > Use only original or authorized replacement parts.
- > The operational condition of the electric wheelchair should be checked before any use of it.



WARNING

Danger of injury for persons when travelling with the electric wheelchair over impassible surfaces.

Danger of fall and of tipping over for persons when operating the electric wheelchair on surfaces with reduced load-bearing capacity.

Material damage to the electric wheelchair through mechanical and physical forces due to travelling over impassible surfaces.

- > Avoid travelling on slick, slippery, or greasy surfaces (e.g. ice, snow, wet grass and leaves, etc.).
- > Avoid travelling through water at a depth of 50mm or deeper.
- > Observe the permitted total weight of the vehicle.
- > Observe the load capacity (e.g. of bridges and overpasses) and condition of the travelling surface.
- > Always drive with your safety belt on.

3.1.2 Notes on usage



CAUTION

Material damage to the electric wheelchair through overloading the vehicle.

Material damage to the electric wheelchair though the effect of heat greater than 41°C.

Material damage to the electric wheelchair through battery overload on downhill slopes.

- > Use your electric wheelchair exclusively for the purpose for which it was intended.
- > Overloading the electric wheelchair (by an additional person or other loads travelling on it) is prohibited.
- > Protect your electric wheelchair from strong sun and other sources of heat.
- > Switch on electrical devices (e.g. the electric wheel chair's lights) when travelling downhill.

3.1.3 Notes on transport



CAUTION

Material damage to the electric wheelchair through slipping from ramps or lift while being loaded.

Material damage to the electric wheelchair through being secured and transported improperly in and electric wheelchair transporter.

- > Secure ramp from slippage.
- > Both the ramp and the electric wheelchair transporter must be positioned on even and firm surfaces.
- > The ramp or lift must be clean and dry.
- > The ramp must be wider than the electric wheelchair and should be clearly visible to allow corrective steering.
- > Mount the ramp and lift in a single movement in order to prevent the electric wheelchair rolling backwards.
- > Secure the electric wheelchair in the transporter according to the usual legal regulations.
- > Use only suitable and authorised securing equipment.
- > Switch the electric wheelchair off during transport.

National regulations may prevent you from taking it on buses, trains and air transport.



Ask your transport company about possible restrictions.



Before travelling by air, clarify the specific transport conditions with your airline as well as the legal regulations applicable in your country of origin or at your destination with regard to air transport.

Safety note

4. **Functional description**

4.1 **Manufacturing standard**

The PARAVAN electric wheelchair is a multifunctional electric wheelchair which, due to its compact design, is ideally suited to both indoor and outdoor usage.

The electric wheelchair is built and tested to ensure the highest possible level of safety for its operator and his or her immediate environment. Our products are tested for freedom from any flaws after their manufacture. However, if any failure in functioning should appear on your wheelchair, please contact your dealer or PARAVAN GmbH directly in order to have that failure corrected as quickly as possible.

PARAVAN electric wheelchairs are manufactured and checked in conformity with:

- DIN EN 12184 Electric wheelchairs and scooters and their chargers.

and has been rated by this standard in Category B.

4.2 *Appropriate usage*

The PARAVAN electric wheelchair is functionally and structurally intended for the transport of a single person in indoor and outdoor areas. The interface in relation to operation by the user and the liability of the manufacturer of the electric wheelchair is the control panel, including its joystick and any optional operational units for special operation.



The electric wheelchair is suitable exclusively for the applications listed in the section entitled "Usage of the vehicle".



See Section "3 Notes on safety"



See Section "4.2.1 Usage of the electric wheelchair"

4.2.1 Usage of the electric wheelchair

- unproblematic

- Boarding by a single person with a maximum body weight of 160kg.
- Usage as driver or passenger seat, depending on the associated accessories.
- Usage in areas governed by German traffic law (public roads and thoroughfares), on condition that full and fully functioning lighting is installed.



See Section "13 Driving the electric wheelchair"

- problematic or prohibited

- Use as a tractor means of transport of loads or more than one person.
- Use of the electric wheelchair in extreme climatic conditions (heat/cold/precipitation).



See Section "2.1 Disclaimer"



See Section "3 Notes on safety"

4.2.2 Clearance certification as hazardous cargo (accumulator)

PARAVAN GmbH uses accumulators that are rated as "non-hazardous cargo" on condition that the relevant accumulators are not suffering mechanical damage of any type.

The maintenance-free VRLA accumulators and the equally maintenance-free lead gel accumulators are classified as leak-proof, non-hazardous cargo for any form of transport according to:

- > IATA, Rule A 67
- > ADR, Rule 238 B
- > IMDG, Rule 238.2

UN 2800 Special Provisions.



See "Clearance certification as hazardous cargo"



You will receive the appropriate Clearance certificate for your accumulators during the handover of your wheelchair.

4.3 Approvals, certifications

4.3.1 EU approval as a driver seat

The anchoring of the safety belt has been certified and approved in accordance with 76/115/EEC as has the seat in relation to its anchoring in accordance with 74/408/EWG with the Paravan docking system.



DANGER!

Potential risk of injury or serious injury or death

In conjunction with the Dahl Docking system the wheelchair has been successfully crash-tested according to ISO 7176-19:2008 - Wheeled mobility devices for use as seats in motor vehicles. The test was carried out with vehicle anchored safety belt system only. The integrated 3- or 4-point seat belt should not be used or relied on for occupant restraint in a moving vehicle. Use a vehicle installed and approved 3 point belt instead

- Technical Reports Nos. 08-00719-CP-GBM and 08-00723-CP-GBM.



See Section "23 Annexes and technical documentation"



Fig. 4: TÜV Logo

4.3.2 German regulations on assistive technology (Hilfsmittelverordnung, HMV no.)

The PR 40 standing wheelchairs are approved in accordance with assistive technology guidelines:

- > Kassenarztrecht in Nordwürttemberg – Richtlinien und Normen und Verordnungen und Leistungen (Panel doctors law in Northern Württemberg - guidelines and standards and regulations and services), page B 2 - 1 ff

As auxiliary equipment permitted under the German regulations on assistive technology, number:

- > HMV no. 18.99.06.1048

4.3.3 Definition of auxiliary equipment (incomplete excerpt)

Auxiliary devices are physical medical services i.e. things which succeed in making medical treatment safe by their compensatory, supportive or relieving effect, or which allow physical hindrances to be overcome. They include prostheses, orthopaedic and other auxiliary equipment, visual aids, physical tools or technical products...

4.3.4 Indication

The inability to walk or severely limited ability to walk within the context of the basic need to move in your own home.

The provision of wheelchairs with a standing feature is advisable if regular (several times per day) standing training must be carried out as a therapeutic action, and other standing aids, e.g. underarm crutches, axillary crutches, walking frames, cannot be used.

These wheelchairs are only used if manually operated standing devices cannot be operated due to the wheelchair user's low level of residual strength.

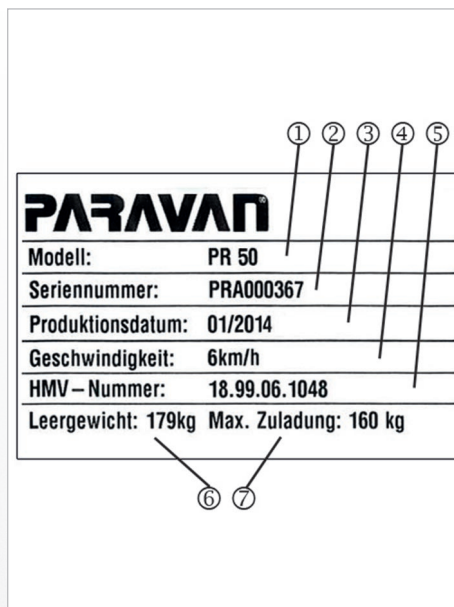
4.3.5 Contraindications

The provision of power wheelchairs is unsuitable for persons with:

- Severe balance disorders
- Limited and inadequate vision
- Severely limited cognitive abilities
- Loss of both arms, or the inability to sit

5. Details relating to the product

5.1 Trademark and type labelling (ratings plate)



You can read this information from the device's ratings plate. They are very important in all correspondence with PARAVAM GmbH in guaranteeing that you receive the technically correct advice.

- > Model designation ①
- > Series number, Chassis no. ②
- > Date of manufacture ③
- > Max. speed ④
- > HMV number ⑤
- > Weight of electric wheelchair when empty ⑥
- > Maximum load (body weight) ⑦



See Section "5.3.1 Your electrical wheelchair's ratings plate"

Fig. 5: Ratings plate

5.2 Position of the type label (ratings plate)

One copy of the type label (ratings plate) has been affixed to your electric wheelchair. The type label (ratings plate) is about 70mm by 40mm in size.

- The type label (ratings plate) is positioned on the lower right of your wheelchair, next to the battery holder ①.



Fig. 6: Location, ratings plate

5.3 *Details on your electric wheelchair*

Please make sure that these details are listed when the wheelchair is handed over to you or, if necessary, enter the information yourself so that you have it to hand at all times.

Date of delivery/handover

>

Handed over by (dealer or branch office)

>

5.3.1 Your wheelchair's ratings plate



5.4 Accessories

5.4.1 Accessories included

- Charging device with charging cable.
- User's Manual.
- Magnetic key, optional, depending on equipment.

5.4.2 Accessories deliverable

- PARAVAN and DAHL docking station to allow you to secure the electric wheelchair easily and quickly in your vehicle, e.g. when the electric wheelchair is being used as a driver's seat.
- DAHL Vario Dock for quick and easy fastening of the PR 30 in a vehicle.



Fig. 7: DAHL Dockingstation



Fig. 8: DAHL Vario Dock (height adjustable)

6. Description/Functioning of your electric wheelchair

6.1 The specially PARAVAN comfort seat



Fig. 9: Entire Seat

- > Removable headrest, adjustable height and angle ①
- > The armrest can be swivelled backwards by means of a knurled screw under the armrest, adjustable angle ②
- > The angle of the backrest can be manually adjusted by means of a rotary knob, ③
or optionally it can be operated electrically by a joystick

6.2 Joystick control

Using the joystick, the driving console and its integrated control panel, you can select and trigger all functions of the electric wheelchair; such as:

- The electric wheelchair's steering
- The electric wheelchair's braking behaviour
- Driving speed, control of the two drive motors
- Secondary functions, depending on the control panel and equipment being used.

6.3 Special controls

A variety of special controls can be used on the PARAVAN electric wheelchair, including the following:

- Chin control
- Environmental control
- etc.



If you have any special requirements or suggestions on this topic, please do not hesitate to get in contact with us. Thank you.

6.4 **Lift and tilt (seat inclination)**

The electric wheelchair is equipped with a sturdy single-lever lift, which fully extended can reach a height of 80cm. This ensures that you have the largest possible radius of action in your everyday household and work environment.

At the press of a button you can adjust the seat tilt (inclination) as follows:

- > to the front, which will give you assistance in standing up
- or
- > to the rear, for relaxing, to prevent pressure sores, to support your lower body and to distribute your weight more evenly.



See Section "11 The special orthopaedic seat, operation"

6.5 **Vibration-damped foot rests**

- > Impact-damped, separate or conjoined in order to counter spasticity.
- > Depending on the equipment, they may be electrically adjustable in terms of length and angle.

6.6 Safe for traffic conditions according to German traffic law

Optionally, the PARAVAN electric wheelchair can be enhanced to become a vehicle approved for use in road traffic using:

- headlights for the best possible illumination ①.
- directional indicators ②.
- rear lights for the best possible visibility ③.
- Lateral markings in the centres of the wheels using yellow reflectors.



Fig. 10: Front illumination

6.6.1 Section 24 Special means of transport



Wheelchairs are mentioned in German traffic law. In that law, it is stated:

- (1) Push and grip wheelchairs, sleds, prams, scooters, children's bicycles and other similar means of transport are not vehicles in the sense of German traffic regulations.
- (2) Medical wheelchairs and other wheelchairs as mentioned in Paragraph 1 may circulate wherever pedestrian traffic is permitted, but only at walking speed.

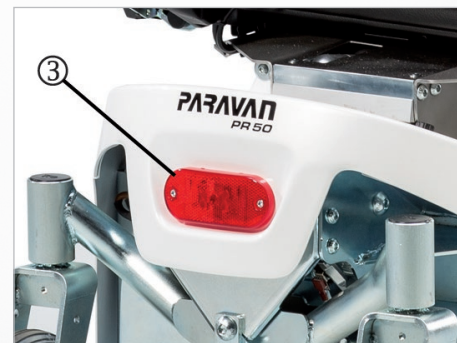


Fig. 11: Rear illumination

7. Overview of the PARAVAN electric wheelchair

7.1 Definition of vocabulary for parts and their positions



Fig. 12: Overview of wheelchair

The following terms for components and parts will be used in this user's manual. Their position on the wheelchair is shown in the illustration.

- > Control panel with joystick ①
- > Repositionable armrest on multiple axes ②
- > Back rest (manual, optional electric) ③
- > Head support ④
- > Foot plate/foot rests ⑤
- > Brake release lever, emergency release ⑥
- > Drive wheel, puncture resistant as standard ⑦
- > Battery holder ⑧
- > Trimming ⑨
- > Rear wheel, puncture resistant as standard ⑩

7.2 Definition of vocabulary for parts, place of installation, chassis

The following terms for components and parts will be used in this user's manual. Their assembled position on the chassis of your electric wheelchair is shown in the illustration.

- > Seat section ①
- > Seat guides ②
- > Lift arm ③
- > Rear wheel ④
- > Rigging eyelet, rear ⑤
- > Floating axle ⑥
- > Drive motor for lift arm ⑦
- > Actuator module ⑧
- > Battery holder ⑨
- > Accumulator (battery) ⑩

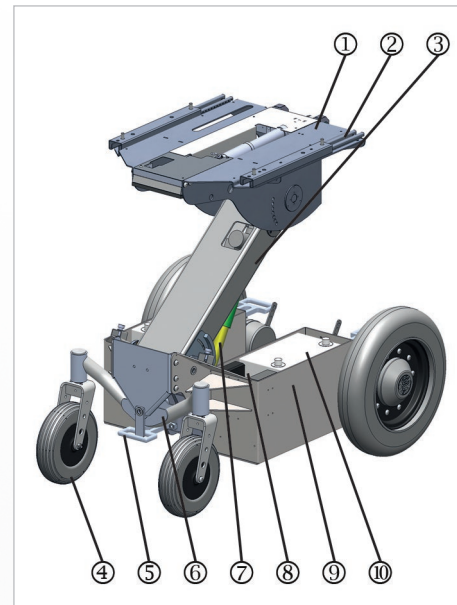


Fig. 13: Components, rear of chassis

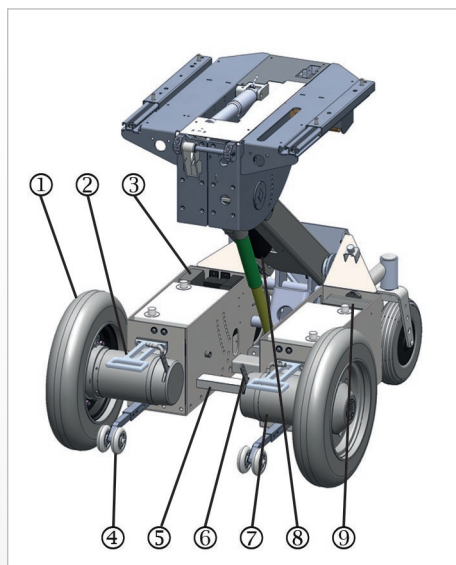


Fig. 14: Components, front of chassis

- > Drive wheel ①
- > Rigging eyelet ②
- > Control devices ③
- > Stabilizer, anti-tipper ④
- > Fitting for docking station ⑤
- > Brake release lever, emergency release ⑥
- > Drive motor ⑦
- > Lift motor with lifting rod and gearing ⑧
- > Bracket for ancillary components ⑨

8. ***Handing over the electric wheelchair***

8.1 ***Receiving your new electric wheelchair***

Check that your your electric wheelchair is complete and compare the state in which it was delivered with what is indicated on your order. Where there is any doubt, contact PARAVAN GmbH immediately! Check (visually) that your electric wheelchair is in proper order. Report any damage that may be due to transport or delivery immediately in writing to your

> dealer, forwarder or medical supplier

and

> PARAVAN GmbH



See Section "1.1 Your manufacturer"

8.2 ***How your electric wheelchair is delivered to you***

The electric wheelchair will be in the following state of assembly, ready for use and operation:

- > Fully assembled and equipped in accordance with your order instructions.
- > All components and auxiliary elements are pre-set to your body mass as it figured in your order.
- > Ready charged accumulators.

The settings and configuration needed for PARAVAN controls are very complex and for your own safety can only be done by your service technician.

All parameters used in PARAVAN controls can be adjusted later to your needs and wishes. These parameters include:

- > All drive properties, such as starting and braking.
- > Steering behaviour.



Should you need or would like to have adjustments made to control parameters, please contact PARAVAN GmbH or your dealer.



See Section "1.1 Your manufacturer"

10. **Settings on your electric wheelchair; mechanical**

10.1 **Receiving your new electric wheelchair**

All mechanical components and equipment and operating elements are set to match your body mass. However, if any adjustment should be necessary, then it can be made at any time. Your PARAVAN electric wheelchair is build so that it can be adjusted to the needs of any body mass.



For your own safety, please make sure all mechanical settings and changes to the wheelchair's equipment are made by your service technicians. No modifications made by the customer are permitted!



See Section "23.4 Handover briefing"

10.2 **Combination with non-manufacturer products**



Any combination with components not supplied by us generally constitutes a modification of your power wheelchair. Ask us whether there is a valid combination approval from us.

10.3 The armrest A8

This instruction applies both to the left and right hand side.

- > can be raised up
- > max angel adjustable with the adjustment wheel ①



Fig. 15: Armrest A8

10.4 Setting the movability of the control panel



Fig. 16: Swivel mechanism

The horizontal swivel mechanism of the control panel can be set to adjust its level of stiffness (i.e. in terms of the responsiveness and movability of the joint).



This level of stiffness can only be set by your service technician!

10.5 Series manual footrest unit

Your specialist supplier will position the footrest at the correct lengths. The same applies to the angle of the foot. The footrests can be swivelled away following unlocking and can be removed by lifting them up.

10.5.1 Optional electric footrest unit

The electric angle and length compensation enables the electrical adjustment of the length of the footrest unit and the adjustment of the angle to the seat. The angle of the footrests can only be manually adjusted by means of a setting screw. The rest for the lower leg / the lower leg length can be electrically adjusted via the PARAVAN control in the length setting.

- > Select the menu in the control.
- > Make your setting.



See Section "16 Controls"



If this adjustment mode is not sufficient for your needs, then the foot support must be mechanically adjusted at the foot support ①!



Fig. 17: Lower leg length

10.5.2 Setting the tibialis angle



Fig. 18: Tibialis angle

The projection of the lower leg and of the tibialis angle (between the upper and lower leg) can be made using the angle setting of the PARAVAN control, depending on how your model is equipped.

- > Select the menu in the control.
- > Make your setting.

10.5.3 Setting the foot rest angle

The angle of the foot rests can be set separately for each foot rest to match your individual needs.

The following settings are available:

- > Screw the adjustment screw inwards -> the foot rest is lowered.
- > Screw the adjustment screw outwards -> the foot rest is raised.



Do not force the adjustment screw in or out. Raise the foot rest a little to remove pressure on the adjustment screw.

Take the following steps in the following sequence when setting the angle of the foot rest:

- > Raise the foot rest ③.
- > Loosen the lock nut ①.
- > Screw the adjustment screw ② in or out as required.
- > Check your setting (lower the foot rest).
- > Tighten the lock nut ① to about 8 Nm.

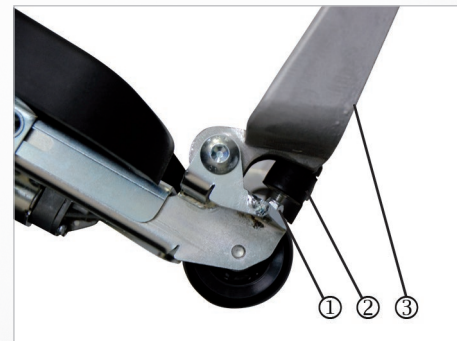
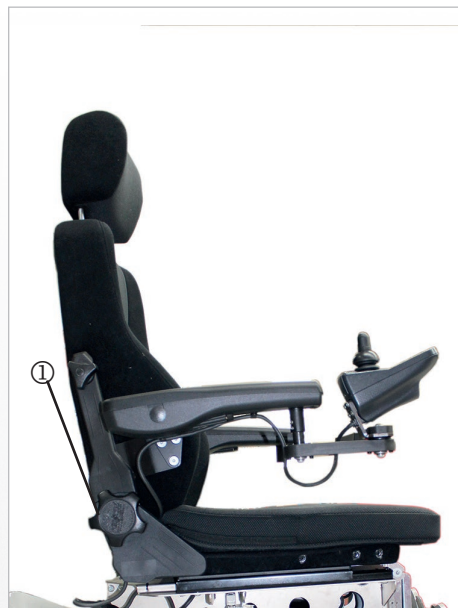


Fig. 19: Foot rest angle

11. Use of the PARAVAN comfort seat

11.1 Setting the back support

11.1.1 Setting the back support angle



The back support and the back support angle can be changed manually.

Turn the handwheel ① on the side of the seat to adjust the back support angle.

The back support and the back support angle can be changed electrically using the PARAVAN control.

- > Select the menu in the control.
- > Make your setting.



See Section "16 Controls"

Fig. 20: Back support angle

11.1.2 Setting the head support

If you need the head support position to be change, you can adjust the height of the head support to your individual needs in 5 stages.

You have the following settings available:

Adjusting head inclination:

- > Push the head support ① into the required inclination -> push the head support up backwards or forwards.

Height adjustment in five stages:

- > Push the head support ① into the required stage -> pull the head support upwards or push it downwards. The head supports ② have five stages.

In order to remove the head support (e.g. at the hairdresser) you must pull it up over the final stage and pull it free. Do the same in reverse to replace it.



Fig. 21: Head support

11.1.3 Setting your sitting position



Fig. 22: Sitting position

The seat can be moved forward or backwards using the PARAVAN control if you have chosen this optional special accessory.

- > Select the menu in the control.
- > Make your setting.



See Section "3 Notes on safety"



See Section "16 Controls"

11.2 *Setting your lying position*

The seat can be moved into a lying position using the PARAVAN control.

The lying position function is not provided within the control. It must be set individually by the user.

Take the following steps in the following sequence when setting the lying position:

- > Select the menu in the control.
- > Move the lift arm upwards.
- > Set the required tilt for the seat (Optional special equipment).
- > Set the required tilt for the back support.
- > Set the foot support angle and length (Optional special equipment)



See Section "16 Controls"



Fig. 23: *Lying position*

11.3 Setting the standing up position



Fig. 24: Stand-up position

The seat can be moved into a stand-up position using the PARAVAN control.

The stand-up position function is not provided in the control. It must be set individually by the user.

Take the following steps in the following sequence when setting the stand-up position:

- > Select the menu in the control.
- > Move the lift arm up to the height of your bottom.
- > Fold the foot rest up.
- > Tilt the seat forward.
- > Push off from the seat and stand up.



See Section "16 Controls"

12. Removing and reattaching the chassis cladding

12.1 Removing and reattaching the rear cladding



Fig. 25: Rear cladding

The chassis cladding can be removed for maintenance, repair or cleaning.

Take the following steps in the following sequence when removing and reassembling the rear cladding:

> Loosen and remove knurled screws ①.



Put aside the knurled screws and plastic washers.

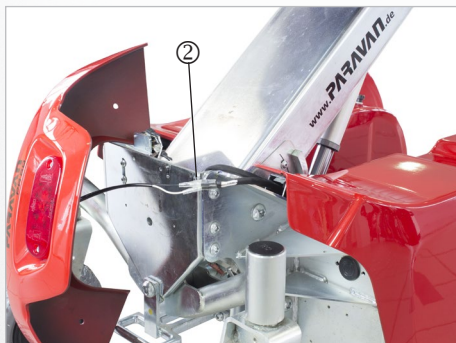


Fig. 26: Rear light and cable

> Disconnect the cable for the rear light ② at the connection.

> Remove the rear cladding.

> Reassemble in the opposite sequence.

12.2 Removing and reattaching the side cladding

The chassis cladding can be removed for maintenance, repair or cleaning.

Take the following steps in the following sequence when removing and reattaching the side cladding:

- Loosen and remove knurled screws ①.
- Remove rear cladding.



See Section "12.1 Removing and reattaching the chassis cladding"

- Raise the side cladding at rear.
- Disconnect the cable for the front headlight and directional indicator ② at the connection.
- Remove side cladding from the front.
- Reassemble in the opposite sequence.



Make sure the plastic washers are present, as they protect the chassis components from damage.



Fig. 27: Side cladding

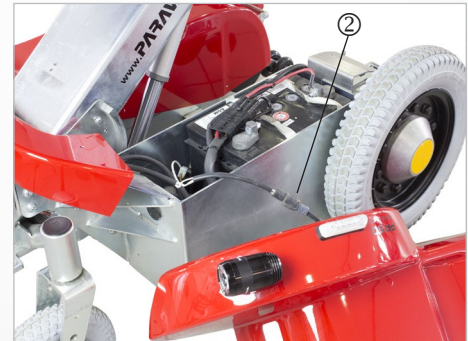


Fig. 28: Front headlight, cable


13. *Driving your electric wheelchair*

13.1 *Insurance, civil liability insurance*

We recommend speaking with your insurance advisor before starting use, so that the use of the electric wheelchair is included in your insurance policies – in particular in your civil liability insurance.



Please observe that for use on the public roads you may be legally required by the relevant legislation to have an insurance policy for use of your electric wheelchair.

 WARNING	
Danger of personal injury when operating the electric wheelchair in a state not conforming to its state upon delivery. Material damage to the electric wheelchair through non-authorized or incorrectly installed components.	
>	Do not make any technical changes to your electric wheelchair.
>	Only operate your electric wheelchair in its original state upon delivery.
>	Use only original or authorised replacement parts.
>	The operational condition of the electric wheelchair should be checked before any use of it.

13.2 *Functional checking before driving*

For your own safety, you must check the following points before beginning any trip.



You may need to involve a second person for such a check.

- > Check that the brakes are working.



The brake release lever ① must be positioned on "LOCK"; i.e. in its upward position.

- > Charge state of your accumulators.
- > Functional check on the lighting system:



See Section "13.10.1 Using the brake release lever (emergency release)"



See Section "21 Electrical system"



Fig. 29: Brake release lever (emergency release)

13.3 Buckling the safety belt



Fig. 30: Fastening the seat belt



Fig. 31: Belt fastener



Listen for an audible clicking into place of the buckle latch ② in the belt fastener ① when buckling the safety belt.

The function of the belt fastener is similar for all belt variants, including:

- > 2-point belt (lap belt).
- > 3-point belt in driver or passenger version.
- > 4-point belt (suspender belt).
- > Multipoint belt (special belt with several anchor points).



Note for the electrically lockable belt:

The electrically lockable belt is controlled by an electromagnet. It is locked in switch position 0 & unlocked in switch position 1. The permanent current consumption in position 1 is approx. 0.5 A.

In general, only tilt the backrest in position 1 (unlocked)!
Otherwise the seat belt will tighten in position 0 (locked).

13.4 Controlling the electric wheelchair's travel direction



The electric wheelchair is steered using the joystick on the drive panel.

The following basic steering options are available to you when you put the joystick in the following positions:

- Joystick pushed forward → the electric wheelchair travels forward.
- Joystick to left or right → the electric wheelchair changes its direction into the selected direction.
- Joystick pulled backward → the electric wheelchair travels backwards.
- Joystick in neutral position (in the middle) → brakes are active, no movement.



To prevent the wheelchair from moving in an undesired way, do not make any sudden movements (drive commands) using the joystick! Practice using the controls in a safe and obstacle-free area.



Fig. 32: Joystick

13.5 *Driving a curve*



The PARAVAN electric wheelchair is equipped with front-wheel drive. This means that when steering (driving on curves) the rear of the vehicle swings outwards.

How to drive around a curve:

- > Press the joystick in the desired direction of movement (forwards or backwards).

and at the same time

- > Press the joystick in the desired direction of steering (left or right).

For example:

- > Push the joystick to the top right (to "two-o'clock") from the user's point of view.
→ the electric wheelchair will steer right.



See Section "3 Notes on safety"

13.6 **Braking your electric wheelchair**

13.6.1 Braking systems on your electric wheelchair

In order to guarantee the highest possible level of safety, the PARAVAN electric wheelchair uses two braking (safety) systems that work independently of each other. The functions of each of these safety systems are as follows:

➤ **Safety during travel:**

By releasing the joystick (the joystick will always return to its neutral position in the middle) during travel, the motor brake engages automatically and brakes the electric wheelchair.

➤ **Safety where power fails or cuts out:**

If the supply of current should become interrupted – e.g. by a the battery losing its charge – the magnetic safety brake is triggered and the electric wheelchair will come to a stop. Where this happens it can only be released again mechanically and moved manually.



See Section "13.10.1 Using the brake release lever (emergency release)"

13.7 *Braking the electric wheelchair*

The braking mechanism; i.e. the process from initiating the braking process until the electric wheelchair comes to a stop, depends very heavily on a number of factors, such as:

- > Surface and nature of the surface being travelled on.
- > Total weight of the electric wheelchair (vehicle plus driver).



On braking during cruising speed at about 6km/h, your electric wheelchair has a braking distance of about 1 metre!



When the brake is engaged at high speeds, specially in downhill travel, the electric wheelchair may roll or skid. For this reason, avoid braking suddenly!

13.8 Travelling on hills, uphill and downhill travel

For your own safety you must observe and follow the following advice during uphill and downhill travel:

- Set the seat position to its hindmost position in order to prevent slipping.
- Always drive with your safety belt on.
- Avoid braking suddenly during downhill travel to prevent the the electric wheelchair from rolling or skidding.
- During uphill and downhill travel, select a low drive level and speed to prevent you from losing control of the electric wheelchair at any point.
- The stability of the electric wheelchair cannot be guaranteed during uphill or downhill travel involving a slope of more than 7°; such travel will involve danger of the electric wheelchair tipping over.
- When going downhill, the power generated is channelled into the accumulators. If the battery was fully charged on starting travel, the safety system switches to emergency stop, in order to prevent damage to the vehicle's electronic components through electrical overload. If this should occur, switch on an electrical device (e.g. the lights) to run down the battery, and then continue your journey.



During uphill and downhill travel, the brake release lever should be set to "**LOCK**". The motor brake only functions in "**LOCK**" position. Otherwise, the vehicle will travel downhill with no brake being applied.



See Section "13.10.1 Using the brake release lever (emergency release)"

13.9 The driving programmes / drive levels

The PARAVAN electric wheelchair has four different driving programmes, or drive levels. You can select the drive level you want or final driving speed of your electric wheelchair on the control panel.

You can reach the maximum final speed of the relevant drive level by pushing the joystick forward as far as it goes.

The functions of each of the drive levels are as follows:

- > Drive level 1
Highest level of control of the electric wheelchair
20% of final speed, for travelling around rooms.
- > Drive level 2
40% of final speed.
- > Drive level 3
60% of final speed.
- > Drive level 4
80% of final speed.
- > Drive level 5
For experienced drivers/users only
Maximum final speed.



See Section "16 Controls"

13.10 Driving manually, manual operation

13.10.1 Use of the brake release lever (emergency release)

- If you want to push the electric wheelchair, you must move both brake release levers ① on the left and right-hand side to **"UNLOCK"** (their downward position).



Do not switch to **"UNLOCK"** on sloping surfaces! In this setting the drive motor has no braking function!

Settings on the brake release lever ①

LOCK

- Lever in its upward position
= drive, braking system active!

UNLOCK

- Lever in its downward position
= for pushing, braking system disabled!

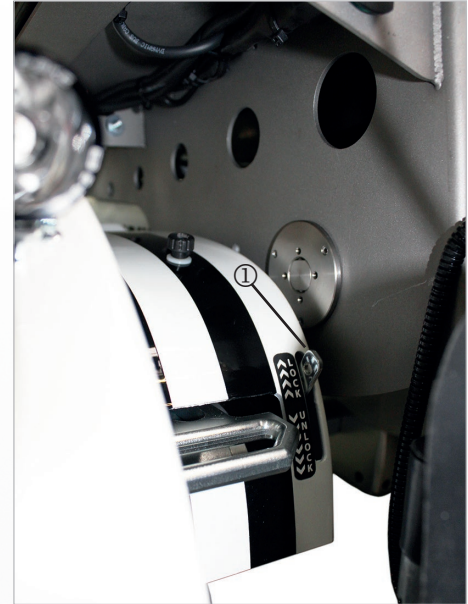



Fig. 33: Brake release lever (emergency release)

13.11 Terrain requirements, surfaces

 WARNING	
<p>Danger of tipping over for persons when using the electric wheelchair on surfaces with a slope of more than 10°.</p> <p>Danger of tipping over for persons when using the electric wheelchair on downhill slopes with the seat position in the most forward position.</p> <p>Danger of tipping over for persons when using the electric wheelchair when driving over obstacles.</p>	
<ul style="list-style-type: none"> > Avoid paths with any inclination of more than 10°. > When travelling downhill move the electric wheelchair's seat towards the back. > Do not run over obstacles higher than 60 - 70 mm. > Always drive with your safety belt on. 	

13.11.1 Ability to ford, or drive through water

- > Travel through water may lead to damage to electronic components (motors, control devices, etc.) and to accumulators due to water penetration.

13.11.2 Climbing and overtaking capacity

- > If you drive over obstacles higher than 60 to 70mm you and your electric wheelchair may become caught on the obstacle due to the battery casing and may be immobilised or overturn.

Driving your electric wheelchair

13.11.3 Load-bearing capacity

- Do not drive on surfaces on which there is a danger that you may break through them and thus become immobilised or overturn. Always consider the total weight of the vehicle.



See Section "22.1 Technical information and dimensions"

13.11.4 Impassible surfaces or areas

- Driving on impassable surfaces or areas will risk the you and your electric wheelchair becoming immobilised or overturning.
- On difficult terrain or over kerbs, only drive with the seat completely lowered! (because of the impact on the engine)

13.11.5 Slippery surfaces, traction

- Your electric wheelchair can lose grip when driving on slippery surfaces (e.g. unsurfaced ramps, wet grass, snow, ice, etc.). That means its drive and braking power are no longer effective.

14. **Parking and storing your electric wheelchair**

In order to prevent damage to your electric wheelchair, you must observe the following rules when you park it, e.g. overnight, or for any longer period of time:

- > Connect it up with the recharger.
- > Select a dry parking position.
- > Do not expose your electric wheelchair to high or low temperatures.
- > Cover your electric wheelchair with a suitable covering.

14.1 **Immobiliser/key function**

Depending on the equipment of your electric wheelchair, there are two different ways of securing it from unauthorised use.



Secure your electric wheelchair from unauthorised use! You are responsible to ensure that your electric wheelchair is properly parked!

15. **Loading and transporting your electric wheelchair**

General

Information

Prepare

Operate

Help

Technology



Your electric wheelchair should always be switched off and properly secured or lashed down during transport. Use loading devices such as:

- > ramps, lifts and hoists

with sufficient load-bearing capacity.

15.1 **Rules when loading wheelchairs**

The following rules must be followed when loading:

- > The maximum rated height indicated on the ramp must be greater than the height to be climbed from the floor to the height of the supporting edge (in a car, for example, the floor of the car boot).
- > Check the load capacity of the ramp(s), of the lift or of the hoist.
- > For safety reasons, your electric wheelchair should be loaded into a car or onto the necessary ramps only unoccupied (without any person or baggage on board).
- > The loading should be done only by persons familiar with the safe handling of your electric wheelchair.
- > Any electric wheelchair not designed for driving may only be loaded by your authorised specialist workshop. Only such persons know the possible hazardous situations and how to prevent them.

15.2 Securing your electric wheelchair, lashing

To prevent slippage, the electric wheelchair must be firmly secured or lashed to the transport vehicle using lashings, hooks or straps. The electric wheelchair must be secured in accordance with the

- > DIN 75078 (Parts 1 and 2) standard for powered vehicles in order for it to be conducted by persons with restricted mobility.

The electric wheelchair has the following lashing points.

- > Front: two rigging eyelets ①
- > Rear: one rigging eyelet ②



No other securing is required if your vehicle is equipped with a PARAVAN docking station.



See Section "5.4.2 Available accessories"



Fig. 34: Securing point at front



Fig. 35: Securing point at rear

15.3 Fasten the seatbelt in a moving vehicle



DANGER

Potential risk of injury or serious injury or death.

The Wheelchair integrated 3 or 4 point belts should not be relied on for occupant restraint in a moving vehicle. An approved, vehicle anchored safety belt system, should be used to secure occupant instead.



DANGER

Belt must not be held away from the body by wheelchair components such as armrests or wheels.



DANGER

Belt restraints should make full contact with the shoulder, chest and pelvic. Belts should be positioned low on the pelvis near the thigh-abdominal junction.



Fig. 36: Illustration of improper belt-restraint fit

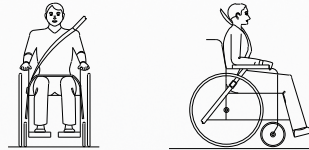


Fig. 37: Illustration of proper belt-restraint fit

15.4 Securing the wheelchair with a 4 point strap restraint system

Standard ISO 10542-1 tie down straps are only tested to 85 kg + user.

It is recommended to use with 4 point strap restraint system rated for the total weight of the wheelchair including any option, 2 at front and 2 at the back that conforms to ISO 10542-1.

If using a standard 4 point WTORS for securing a wheelchair heavier than 85 kg, use 6 straps to secure the wheelchair, 2 straps at the front and 4 straps at the back.

Recommended angel for tie down straps.

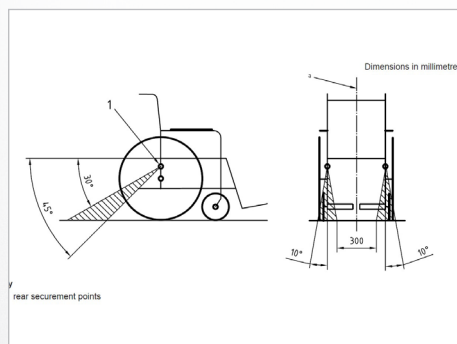


Fig. 38: Rear securement points

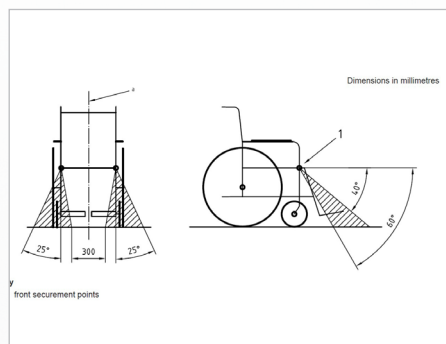


Fig. 39: Front securement points

15.5 Occupant restraint instruction

- Use a vehicle anchored occupant restraint system to secure the occupant.
- Both pelvic and upper torso restraint belts must be used to restrain the occupant to reduce the possibility of head and should not be held away from the body by wheelchair components such as armrest or wheels.
- Restraints should be mounted to appropriate vehicle pillar and should not be held away from the body by wheelchair components such as armrest or wheels.



WARNING

Positioning the occupant restraint with 4 point strap system

- Pelvic restraint belt must be worn low across the front of the pelvis so that the angle of the pelvic belt is within the preferred zone of 30° - 75° to the horizontal.

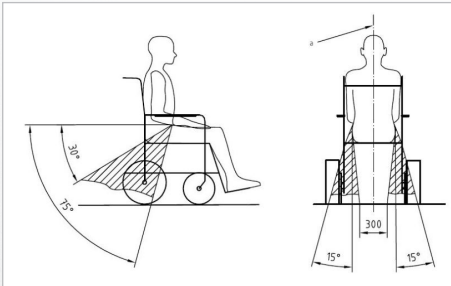


Fig. 40: Positioning the occupant restraint with 4 point strap system

- The upper torso restraint belt must fit over the shoulder and across the chest as illustrated Fig. 50. Restraint belts must be adjusted as tightly as possible consistent with use comfort.
- Restraint belt webbing must not be twisted when in use.
- Care should be taken when applying the occupant restraint to position the seatbelt buckle so that the release button will not be contacted by wheelchair components during a crash.

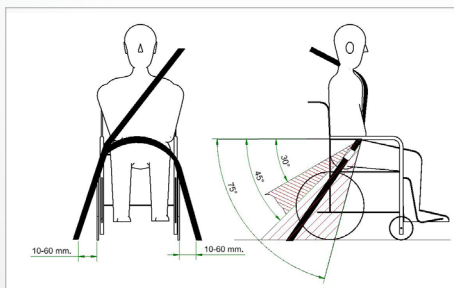



Fig. 41: Positioning the occupant restraint for use with dahl docking system only

 <h2 style="margin: 0;">WARNING</h2>	
<p>Positioning the occupant restraint for use with Dahl docking system only</p>	
<ul style="list-style-type: none"> ➤ When using wheelchair with Dahl docking system, the floor anchorage points for occupant restraint should be located 10 - 60 mm outside wheels, on each side. The pelvic belt must be worn low across the front of the pelvis - so that the angle of the pelvic belt is within the optional or preferred zone of 30° - 75°. As shown a steeper (greater) angle within the preferred zone, 45° - 75° is desirable i.e. closer to, but never exceeding 75° degrees. 	

15.6 Dahl Docking Systems Assembly

According to ISO 7176-19:2008, the Dahl Docking Station MK II and VarioDock™ are suitable for power wheelchair models PR50, PR Piccolino, PR Biolution and PR Heavy Duty from Paravan.

The following instructions explain how to assemble the Dahl Docking Station MK II and VarioDock™ on the wheelchair, using the PARAVAN adaption kit. Please also refer to Dahl Engineering's instructions for vehicle installation, use and maintenance.



The operation of the electric wheelchair without faults or malfunctions can only be guaranteed if the knowledge gained from these assembly instructions is observed and implemented. PARAVAN GmbH assumes no liability or warranty for damage or operating faults resulting from non-compliance with these assembly instructions or from modifications to the electric wheelchair.



Fig. 42: Dahl docking system



WARNING

Risk of injury through incorrect handling of the batteries.

Damage to property through incorrect handling of the batteries.

- > Handle with special care.
- > May only be connected and disconnected by qualified personnel.
- > Keep away from fire.
- > Dispose of damaged batteries properly.

15.6.1 Content of Dahl docking stations



Fig. 43: Content of Dahl Docking Station MK II standard set # 501750



Fig. 44: Content of Dahl VarioDock™ standard set # 503600

15.6.2 Fitting of the Dahl lock plate on wheelchair

In order to fit the Dahl Lock plate an additional wheelchair specific adaptation kit is required. It contains special nut and plastic spacers, which are to be fitted inside the battery box.

- ① Angle plate for Dahl system (PV-Art. Nr: 000033185)
- ② Side mounting for Dahl system (PV-Art. Nr: 000034091)
- ③ 8 mm intermediate piece for locking plate 10069 DAHL (PV-Art. Nr: 000010131)
- ④ Locking rail for Dahl-System (PV-Art. Nr: 000033184)
- ⑤ Oval-head screw ISO 7380 - M8 x 12
- ⑥ Socket cap screw DIN 912 - M12 X 20
- ⑦ Countersunk screw TORX ISO 14581 - M8 x 35 -14.9
- ⑧ Hexagon nut ISO 4032 - M8

- To install the Dahl Locking plate use Paravan Adaptation Kit, article 33187.
- To assemble the adapter set of the Dahl docking station, you need two Allen keys, size 5 and size 10, a Torx 27 and a wrench SW 13.
- Tighten the Torx screws to a torque of 16-18 Nm.
- The panelling must first be removed in order to mount the Dahl docking station to the PARAVAN wheelchair.

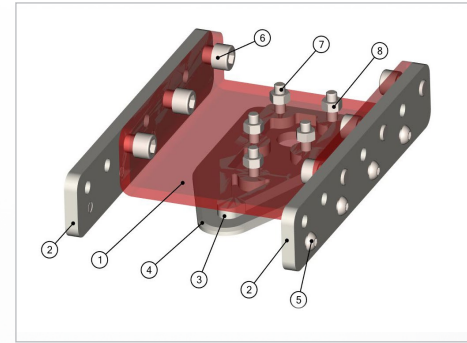


Fig. 45: Paravan Kit for Dahl docking station

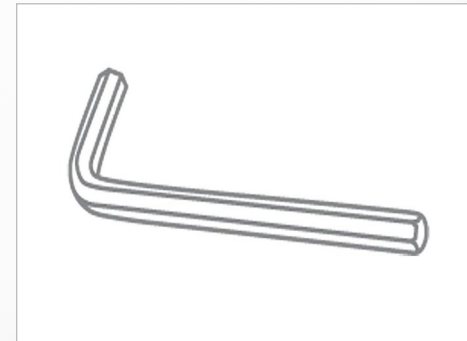


Fig. 46: Torx 27

- To remove the cover, loosen all four knurled screws ①.
- Remove the rear panel ② first, then the side panels ③.
- Disconnect the main cable plug from the batteries left and right ④.

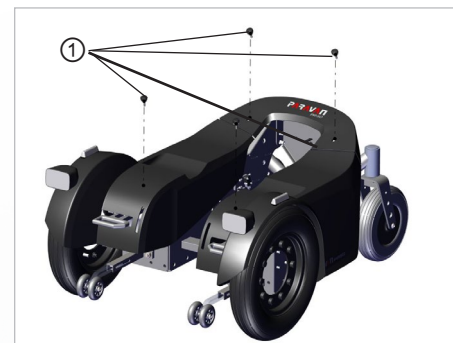


Fig. 49: Knurled screws Paravan



Fig. 47: Main Cable battery

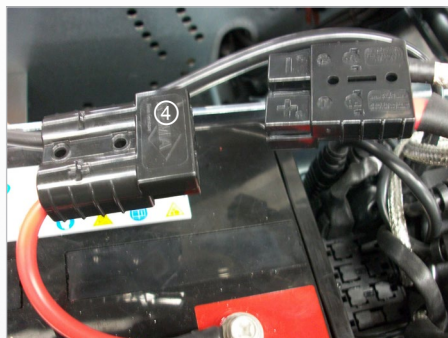


Fig. 48: Disconnect battery

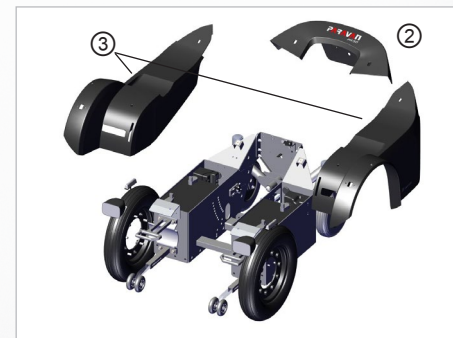


Fig. 50: Rear and side panels Paravan

- Then remove the left and right batteries.
- Position the Dahl system on the wheelchair chassis.
- Fasten the Dahl system on both sides with four M8 x 12 pan-head screws each.
- Screw them in medium-tight with a screw lock

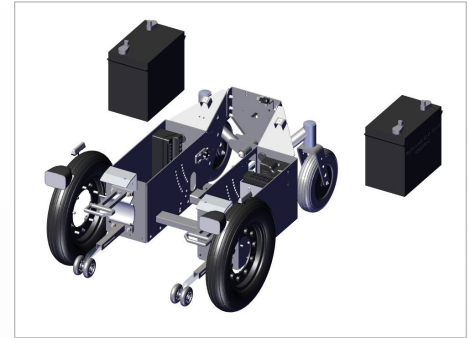


Fig. 52: Remove batteries Paravan

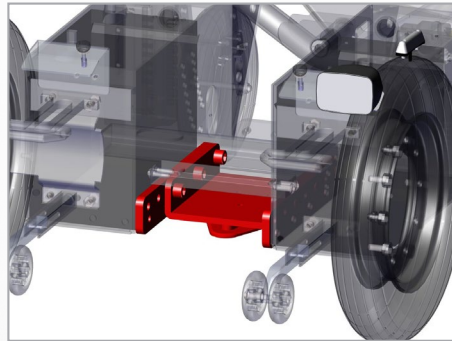


Fig. 51: Position the Dahl system

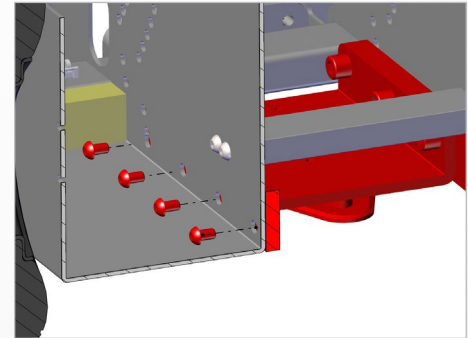


Fig. 53: Fasten the Dahl system

After the Dahl system has been attached to the wheelchair chassis, reinsert the batteries and reattach the panelling in reverse order.

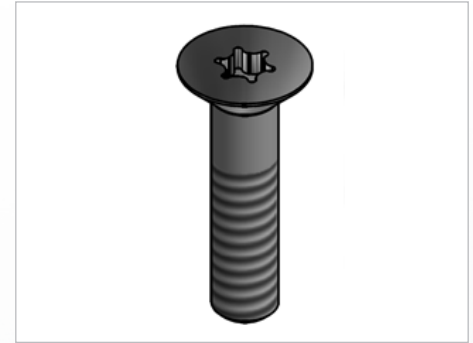


The PARAVAN adapter kit can also be pushed further forwards or backwards and fastened accordingly, depending on the position of the counterpart in the vehicle.



Installation of the Dahl Docking systems in the vehicle: Only professional companies in the business of converting or building wheelchair accessible vehicles can order the docking system from Dahl Engineering. A qualified and experienced technician must carry out the installation. Dahl Engineering can provide vehicle specific installation instructions for a large range of vehicles, which must be respected by the fitter. Please contact Dahl Engineering for further information about approved vehicles and fitting positions.

To attach the Dahl Docking Station to the PR 30, use the screws provided.



DANGER

Potential risk of injury or serious injury or death due to use of incorrect screws.

- > Use the screws provided.
- > Do not use any other screws than those supplied from Dahl Engineering (part no. 502800 which is quality 14.9 with torx 27 key). Standard screws will not be strong enough in the event of a collision.

15.6.3 Description of the Dahl Docking system functions

- ① Dahl Docking station
- ② Lock plate and spacer
- ③ Lock pin
- ④ Red LED
- ⑤ Green LED
- ⑥ Control panel
- ⑦ Release button
- ⑧ Manual emergency release lever
- ⑨ Manual operating lever



Please refer to Dahl Engineerings installation and user guide for height adjustable VarioDock™ system.

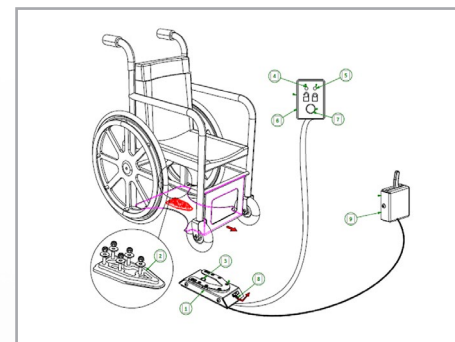


Fig. 54: System functions Dahl

15.6.4 Securing the wheelchair in the docking station

- Maneuver the wheelchair slowly and in a uniform direction over the docking station. The lock plate under the wheelchair helps to guide the wheelchair into place in the docking station. When the lock plate is fully engaged in the docking station, a spring-action locking pin automatically secures the lock plate.
- The docking station is equipped with a control switch that indicates whether the lock plate is correctly secured in the docking station. As soon as the lock plate comes into contact with the locking pin, a warning tone will sound (a high-pitched howl), and the red diode/lamp (LED) in the control panel will light up until the lock plate is either fully engaged or else the wheelchair is removed from the docking station.
- As an indication that the wheelchair is properly secured, the warning tone will cease, the red lamp (LED) in the control panel will go out and the green lamp (LED) will light up.
- Do not forget to buckle up for driving.



Please refer to Dahl Engineering's installation and user guide for height adjustable VarioDock™ system.



DANGER

Potential risk of injury or serious injury or death! Do not move the vehicle:

- > Whilst the wheelchair is being maneuvered into position in the docking station
- > If the wheelchair and user are not correctly secured.
- > If the warning tone sounds and/or the red warning lamp (LED) in the control panel flashes or is lit!

Always check if the lock plate is properly engaged in the docking station by trying to reverse the wheel chair out of the docking station before moving the vehicle. (It must not be possible to reverse out of the docking station without pressing the red release button in the control panel).

15.6.5 Release from the docking station

- When the vehicle has been brought to a halt, remove the safety belt.
- To unlock commence by driving the wheelchair forward to release pressure on the lock pin.
- Press the red release button in the control panel. The locking pin will be triggered/ released for approx. 5 or 8 seconds, after which the locking pin is automatically locked/activated again.
- Move the wheelchair away from the docking station within this 5 or 8 second period. Do not attempt to reverse out of the docking station until the red LED on the control module, which indicates the unlock position, has been illuminated.



Please refer to Dahl Engineering's installation and user guide for height adjustable VarioDock™ system.



WARNING

Attempting to reverse the wheelchair before the red LED has been illuminated will result in blocking the docking stations locking mechanism, which makes it impossible to reverse. If this happens repeat above unlocking procedure.

15.6.6 Manual release in case of electric failure

A manual emergency release is located at the front edge of the docking station.

- > Move wheelchair forward to remove the pressure on the lock pin and push the red release arm to one side and hold it there while the wheelchair moves away.
- > A cable-activated manual operating lever can also be fitted (accessory). The red release arm is also pushed to one side and should be held there whilst the wheelchair moves away.

If the described manual release procedures fails, an emergency release tool made from red plastic comes with each docking station.

- > Move wheelchair forward to remove the pressure on the lock pin
- > Place the emergency release tool in the gap between the locking plate and the docking station.
- > Push the release tool and wheelchair forward until the locking pin has been forced down - after which the wheelchair can reverse out of the docking station.
- > Please also refer to Dahl Engineering instructions for installation, use and maintenance for Dahl Docking Station MK II and VarioDock™ systems.



Fig. 55: Manual release step 1

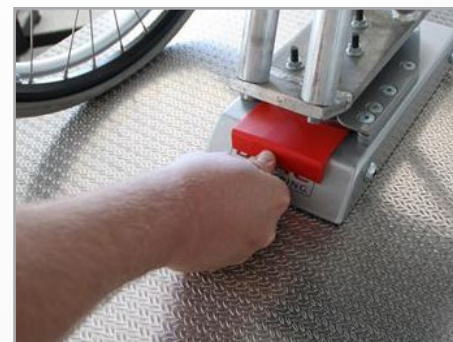


Fig. 56: Manual release step 2

16. Controls

16.1 Control panel R-NET CJSM2

16.1.1 Overview of the control elements



Fig. 57: Control panel R-NET CJSM2

With the control panel (joystick) built into your power wheelchair, you can control all of the power wheelchair's driving, steering and braking processes. All additional functions which are equipped with displacement motors, such as the lifting arm and the sitting functions, must also be operated via the control panel.

- > “On/off” key ①
- > Selection of profile (movement levels)/mode (seat functions)
- > “Direction indicator, right/left” keys ②
- > Brightness sensor ③ LCD Diagnostic LED
- > Display ④ (colour)
- > MODE key ⑤ for switching function – drive program/seat functions
- > PROFILE key ⑥ (selection of movement levels)
- > Joystick ⑦ (determination of travel direction)
- > “Horn” key ⑧
- > Function key ⑨ for selecting/drilling down to movement levels
- > “Hazard lights” key ⑩
- > “Light” key ⑪
- > Charging status indicator for storage battery ⑫

16.1.2 Status display

The function keys are used to select the specific functions displayed in the assigned fields on the display.

Symbols of the status indicator:

- > Charging status of the storage batteries ①
- > Direction indicator, left ②
- > "On/off" light ③
- > System status ④ ("tortoise" → speed control active)
- > Direction indicator, right ⑤
- > Time ⑥
- > Hazard lights "on/off" ⑦
- > Current seat function / Current driving profile ⑧



Symbols ② + ⑤ play an active part in the "hazard lights" function!



Fig. 58: Function keys



Fig. 59: Status display

16.1.3 Start, switch off



Fig. 60: "On / off" key

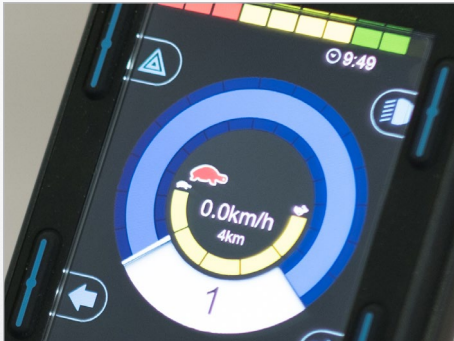


Fig. 61: Speed control (tortoise) active

Start

Push the "on/off" switch ① upwards.

- > The status display briefly flashes and the last selected function in terms of movement level/seat function is shown.
- > Press the switch ① downwards again to:
 - Select movement levels 1 to 5
 - Then switch to the seat functions

Switch off

Push the "on/off" switch ① upwards.

- > The power wheelchair switches itself off (assuming it is already switched on).

16.1.5 Switch direction indicator on and off

Press key ① or ② for the respective direction indicator, left or right.

- The selected direction indicator will flash.
- Press once more → direction indicator switches off.



Fig. 63: Turn signal right / left

16.1.4 Switch light on and off

Press the key ① for the “light on” function.

The lighting installation switches itself on and the light symbol lights up blue.

Press once more:
→ Light off



Fig. 62: Light on and off

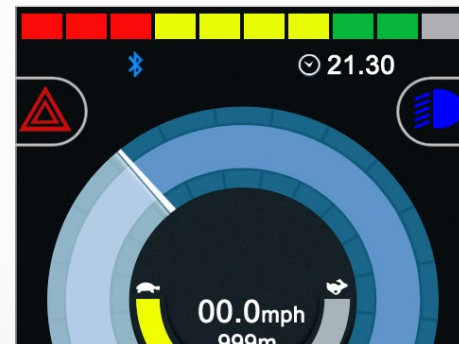


Fig. 64: Light symbol (colour)

16.1.6 Switch hazard lights on and off

Press the “hazard lights” key ① for the “hazard lights on” function.

- The hazard lights switch themselves on, while the hazard lights symbol flashes red and both direction of travel symbols flash green.
- Press the key again → The hazard lights / hazard lights symbol switch themselves off.



Fig. 65: Hazard lights on / off

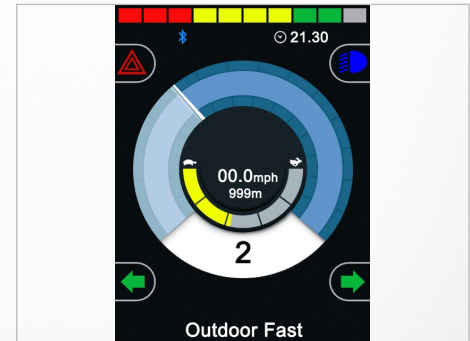


Fig. 66: Symbols (colour)

16.1.7 Driving functions overview



Fig. 67: Driving functions



Fig. 68: Charging status indicator (driving function blocked)

Overview of the driving functions shown on the display of the control panel during driving, steering and braking actions of the power wheelchair.

- > Selected drive program/movement level ①
- > Respective setting (having drilled down) for the selected movement level (1 to 5) fast/slow ②
- > ③ (Profile) key for switching to a higher or lower drive program (1 to 5).
- > Key ④ to change speed in the drive program. Drilling down the respective drive program.
- > Display of the current speed (km/h) ⑤
- > “Trip” display in kilometres ⑥

Display turns black when a charging device is connected.

- > If the wheelchair is switched on, the charging status indicator is the only thing shown.
- > First connect the charging lead for the charging device at the joystick, then plug the power cable for the charging device into the socket.



If the power wheelchair is being charged via the charging socket on the control panel, driving mode is automatically blocked.

16.1.8 Select drive program, drive

The power wheelchair must be in driving mode.

- The last selected drive program is shown on the display (profiles 1 to 5). Drive profiles 1 to 5 are further divided into 5 levels once you drill down.

Press the switch upwards ① or downwards ② to switch to a higher or lower sub-level.

- The selected drive program and sub-level will appear on the display.

Push the joystick in the direction in which you wish to travel.

- The power wheelchair moves in the selected direction.
 - ① Move forwards
 - ② Turn to the right
 - ③ Move backwards
 - ④ Turn to the left



See section “3 Safety notes”



Fig. 69: Select drive program



Fig. 70: Joystick travelling direction

16.1.9 Electrical seat adjustment



Fig. 71: Display of seat functions

Use the MODE key to switch from the drive program to the seat functions. Select the desired seat function by moving the joystick “← left/right →”.
 > The adjustment functions menu will appear on the display.



Only the released or available functions can be selected.

To make the desired setting:
 adjust the seat, seat position, lifting of seat, backrest, tilting of seat, angle for legs, legroom or electric footrest via the joystick (by moving it forwards or backwards).

Switch back to the drive program with the profile key.

> The power wheelchair is ready to drive.



See section “3 Safety notes”

16.1.10 Set time/date

Press and hold the “hazard lights” key to access the “Settings” menu.

> The special functions menu will appear on the display.

Move the joystick → left/right to access the options “year, month, date, day of the week, hours and minutes”. Select the desired option by moving the joystick “← left/right →”.

Move the joystick “↑ up/down ↓” to select exactly the setting you want. To save and quit the menu, go to “Quit” and close it by moving the joystick “↑ up/down ↓”.



Fig. 72: “Set time” function menu



Fig. 73: Setting the time and date

16.1.11 Set time/date

Press and hold the “hazard lights” key to access the “Settings” menu.

> The special functions menu will appear on the display.

Move the joystick → left/right to access the options “year, month, date, day of the week, hours and minutes”. Select the desired option by moving the joystick “← Left/Right →”.

The precise adjustment is made using the “↑Up/Down↓” joystick movement. To save and quit the menu, go to “Quit” and close it by moving the joystick “↑Up/Down↓”.

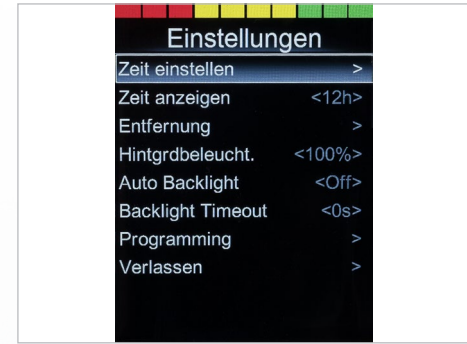


Fig. 74: “Set time” function menu



Fig. 75: Setting the time and date

16.1.12 Adjust display brightness

Select the program function:

- Press and hold the “hazard lights” key.
- Select “Back lighting” from the settings.
- Select the intensity of the lighting (0 to 100% in 10% stages) by moving the joystick “← left/right→”.
- To save → quit the menu.

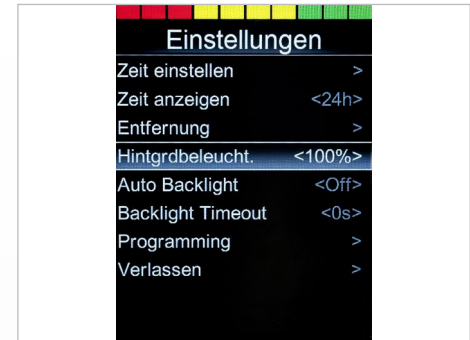


Fig. 76: Setting the display brightness

16.1.13 Adjust display brightness, automatic



The display brightness is automatically adjusted to lighting conditions by the factory. Menus may be arranged slightly differently, depending on the software version.

Select the program function:

- Press and hold the “hazard lights” key.
- Select “Auto Backlight” from the settings.
- Select “On/Off” by moving the joystick “← left/right→”.
- To save, quit the menu.

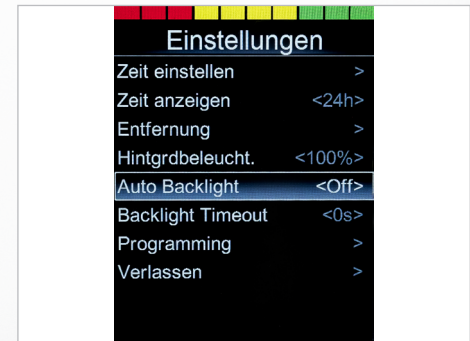


Fig. 77: Autom. display brightness

16.1.14 Block the controls (with the wheelchair switched on)

- Turn the control panel off and press and hold the ON/OFF button ① until you hear a beeping sound
- Move the joystick forwards until you hear a beeping sound
- Move the joystick backwards until you hear a beeping sound
- Immobiliser is activated



Fig. 78: Blocking the controls

16.1.15 Release the controls (with the wheelchair switched off)


- Switch on → and a “padlock symbol”  appears.
- Move the joystick forwards until you hear a beeping sound
- Move the joystick backwards until you hear a beeping sound
- The “Functions” menu is now available – the last function selected is shown



Fig. 79: Lock symbol

16.2 Control panel R-NET CJSM-L

16.2.1 Overview of the control elements



Fig. 80: Control panel R-NET CJSM-L

With the control panel (joystick) built into your power wheelchair, you can control all of the power wheelchair's driving, steering and braking processes. All additional functions which are equipped with displacement motors, such as the lifting arm and the sitting functions, must also be operated via the control panel.

- > “On/off” key ①
- > “Direction indicator, right/left” keys ②
- > Display showing the signal currently active (light, indicator) ③
- > Display ④ (colour)
- > MODE key ⑤ for switching function – drive program/seat function
- > PROFILE key ⑥ (selection of movement levels)
- > Joystick ⑦
- > “Horn” key ⑧
- > Function key ⑨ for selecting/drilling down to movement levels
- > “Hazard lights” key ⑩
- > “Light” key ⑪
- > Charging status indicator for storage battery ⑫

16.2.2 Status display

The function keys are used to select the specific functions displayed in the assigned fields on the display.

Symbols of the status indicator:

- > Charging status of the storage batteries ①
- > Direction indicator, left ②
- > "On" light ③
- > System status ④ ("tortoise" → Speed control)
- > Direction indicator, right ⑤
- > Time ⑥
- > Hazard lights ⑦



Symbols ② + ⑤ play an active part in the "hazard lights" function!



Fig. 81: Function keys



Fig. 82: Status display

16.2.3 Start and switch off



Fig. 83: "On / off" key

Start

Push the "on/off" switch ①.

- > The last selected function in terms of movement level/seat function is shown.

Switch off

Push the "on/off" switch ①.

- > The power wheelchair switches itself off (assuming it is already switched on).



Fig. 84: Speed control (tortoise) active

16.2.4 Switch light on and off

Press key ① or ② for the respective direction indicator, left or right.

- > The selected direction indicator will flash.
- > Press once more → direction indicator switches off.



Fig. 86: Turn signal right / left

16.2.5 Switch direction indicator on and off

Press the key ① for the “light on” function.

The lighting installation switches itself on and the light symbol lights up blue. Press once more: “light off”.



Fig. 85: Light on and off



Fig. 87: Light symbol (colour)

16.2.6 Switch hazard lights on and off

Press the “hazard lights” key ① for the “hazard lights on” function.

- The hazard lights switch themselves on, while the hazard lights symbol flashes red and both direction of travel symbols flash yellow.
- Press the key again → The hazard lights / hazard lights symbol switch themselves off.



Fig. 88: Hazard lights on / off



Fig. 89: Symbols (colour)

16.2.7 Driving functions overview



Fig. 90: Driving functions

Overview of the driving functions shown on the display of the control panel during driving, steering and braking actions of the power wheelchair.

- > Selected drive program/movement level ①
- > Maximum speed in the selected drive program ②
- > Key ③ to switch to a higher (+) or lower (-) drive program
- > Key ④ to change speed in the drive program
- > Display showing "trip" in kilometres and current speed (km/h) ⑤



Fig. 91: Driving function blocked

Display is blank when a charging device is connected.

- > If the wheelchair is switched on, the charging status indicator is the only thing shown.
- > First connect the charging lead for the charging device at the joystick, then plug the power cable for the charging device into the socket.



If the power wheelchair is being charged via the charging socket on the control panel, driving mode is automatically blocked.

16.2.8 Select drive program, drive

The power wheelchair must be in driving mode.

- The last selected drive program is shown on the display.

Press the profile key ① to select/switch to one of the 5 movement levels (profiles).

- The selected drive profile will appear on the display.

Press the relevant key to select a higher ② or lower ③ maximum end speed in the respective drive profile.

- The preference within the drive profile will appear on the display.

Push the joystick in the direction in which you wish to travel.

- The power wheelchair moves in the selected direction.

- ① Move forwards
- ② Turn to the right
- ③ Move backwards
- ④ Turn to the left



See section “3 Safety notes”



Fig. 92: Select drive program



Fig. 93: Joystick travelling direction

16.2.9 Electrical seat adjustment



Fig. 94: Display of seat functions

Use the “Mode key” to switch from the drive program to the seat functions. Move the joystick “← Left/Right →” to select the seat function.

- > The respective seat function will appear on the display.



Only the functions present from the factory can be selected.

The required setting is carried out:
adjust the seat, seat position, lift, backrest, tilting, angle for legs via the joystick (by moving it forwards or backwards).

Switch back to the drive program with the profile key.

- > The power wheelchair is ready to drive.



See section “3 Safety notes”

16.2.10 Set time/date

Press and hold the “slower” ① and “faster” ② speed keys to access the “Settings” menu.

> The special functions menu will appear on the display.

Move the joystick → right to access the options “year, month, date, day of the week, hours and minutes”. Move the joystick “← Left/Right →” to select the desired option.

The precise adjustment is made using the “↑Up/Down↓” joystick movement. To save and quit the menu, go to “Quit” and close it by moving the joystick “↑Up/Down↓”.



Fig. 95: “Set time” function menu



Fig. 96: Setting the time and date

16.2.11 Show/hide clock, configure 12h/24h display



Fig. 97: Set clock to visible/invisible

Select the program function:

- Press and hold the keys ①+②.
- The “Settings” menu appears.
- Use the joystick to select “Display time”.
- By moving the joystick “← Left/Right →”, select “12h/24h display” or “Off”.
- To save → quit the program.

16.2.12 Adjust the display background and brightness

Select the program function:

- Press and hold the “slower” ① and “faster” ② speed keys.
- Select “Back lighting” from the settings.
- By moving the joystick “← Left/Right →”, select the percentage intensity of the lighting
- To save → quit the menu.

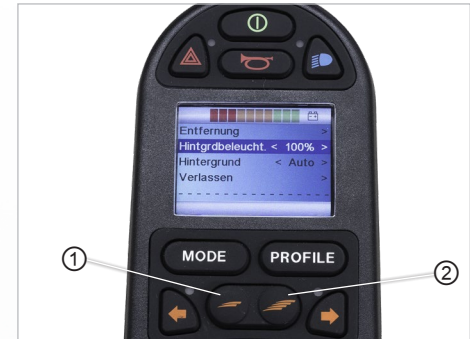


Fig. 98: Setting the display brightness

16.2.13 Adjust display brightness

Select the program function:

- Press and hold the “slower” ① and “faster” ② speed keys.
- Move the joystick “← Left/Right →” to select the desired option.
- To save, quit the menu.

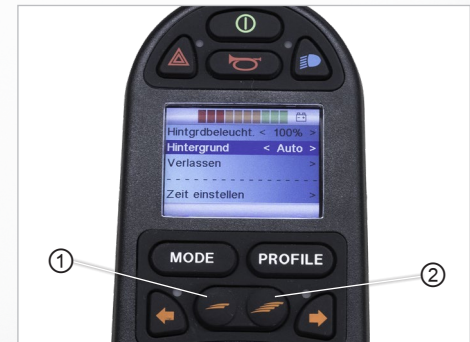


Fig. 99: Setting the display background

16.2.14 Block the controls (with the wheelchair switched on)

- Turn the control panel off and press and hold the ON/OFF button ① until you hear a beeping sound
- Move the joystick forwards until you hear a beeping sound
- Move the joystick backwards until you hear a beeping sound
- Immobiliser is activated



Fig. 100: Blocking the controls

16.2.15 Release the controls (with the wheelchair switched off)


- Switch on → and a “padlock symbol”  appears.
- Move the joystick forwards until you hear a beeping sound
- Move the joystick backwards until you hear a beeping sound
- The “Functions” menu is now available – the last function selected is shown.



Fig. 101: Controls blocked – block symbol

17. *Getting out of your electric wheelchair*

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When getting out of your wheelchair independently, you should keep in mind the following points for your own safety:

- > You should be able to deal with your own body weight safely.
- > You should be able to push against the electric wheelchair with both arms simultaneously and with each exerting equal strength.
- > You should have a secure point against which you can lean and out of which you cannot slip.
- > You should have practised the manoeuvre often enough in the presence of another person.
- > You should consider what could happen if you were to fall to the floor without anyone being there to help you.



We recommend allowing another person to help you. You should, however, inform this person of the risks involved. Always fully discuss the procedure for the move. Never support yourself against the drive control, as the electric wheelchair may be activated accidentally and may make uncontrolled movements.



If you want to move onto another electric wheelchair, you must set the brake release lever to "LOCK" (in its uppermost position) and the electric wheelchair must be switched off.



See Section "13.10.1 Using the brake release lever (emergency release)"

17.1 Procedure when getting out from the side

During any move from the side, follow this sequence of actions:

- Position the electric wheelchair side on
- Set the required seat height
- Switch the electric wheelchair off
- Fold the foot rests ① up
- Swing armrest ② upwards
- Move



Fig. 102: Move, foot rests

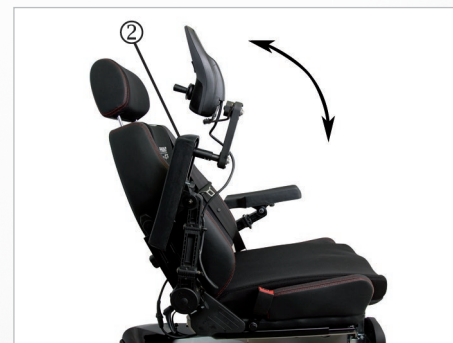


Fig. 103: Move, armrest

18. *Care and maintenance*

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Appropriate use and operation of the PARAVAN electric wheelchair involves subjecting it to the recommended annual maintenance plan. All powered parts, and particularly the lift arm, are structurally designed so that to ensure that electric wheelchair can be operated without failures and requiring little maintenance.

However, the following considerations should be kept in mind to ensure problem-free functioning:

- It should be handled with care
- It should be kept clean
- It should be serviced annually.

18.1 *Service partners*

Where problems should arise, please get in touch with your medical supplies store or dealer, or contact PARAVAN GmbH directly.



See Section "1.1 Your manufacturer"



For execution of maintenance work, please get in touch with your medical supplies store or dealer, or contact PARAVAN GmbH directly. Maintenance and repair work should only be done by suitably trained personnel.

18.2 *Cleaning and care*



High-pressure cleaners should not be used to clean the electric wheelchair. Be careful that no electronics come in contact with water.

Regular care and maintenance will prevent unnecessary wear and damage to your PARAVAN power wheelchair. Switch off the power supply before cleaning the wheelchair.

18.2.1 *Metal surfaces*

The high-quality powder coating ensures optimum corrosion protection. Use a soft cloth or sponge, warm water and a mild cleaning agent for normal cleaning. Carefully wipe with a damp cloth and then dry. Treat abrasion marks on semi-matt surfaces with soft wax. Follow the instructions of the soft wax manufacturer. Abrasion marks and scratches can be removed from shiny surfaces with car polish. You can use liquid car polish or pastes. Apply soft car wax after polishing to restore the original surface shine. Spray the covers of the springs on the rear wheel suspensions regularly with a commercially available multi-function oil or lubricant.

18.2.2 *Plastics*

For normal cleaning of plastic surfaces, use a soft cloth, mild detergent and warm water. Rinse thoroughly and dry the surfaces with a soft cloth. Do not use solvents or abrasive household cleaners.

18.2.3 Upholstery, fabric and vinyl

For normal cleaning of the upholstery, use lukewarm water and a mild, non-abrasive soap. Use a soft cloth or brush. Wipe any water or soapy water residue dry with a clean, dry cloth. Allow the surface to dry. Repeat this process for stubborn dirt or stains. Ink stains may be removed with soap and water followed by treatment with isopropyl alcohol.

Do not use cleaning methods other than those listed here. Other cleaning methods may attack and damage the vinyl, which may void the wheelchair's warranty. If necessary, you can remove the cover before cleaning. For more information, see the washing instructions on the upholstery.

18.2.4 Disinfection

Spraying and washing with tested and approved disinfectants is permitted. A current list of all approved disinfectants can be found on the website of the Robert Koch Institute at **www.rki.de**.

The electric wheelchair itself and its individual components are designed to enjoy a long service life. During manufacture and construction, care was taken to use recyclable and harmless raw materials as much as possible. At the end of its service life, the electric wheelchair is suitable for careful recycling and environmentally friendly disposal.



National and regional regulations on the disposal of waste should be followed.

For the purposes of recycling, the electric wheelchair can be dismantled into following principal materials:

- > Metals
- > Plastics and composite materials
- > Electronic waste
- > Accumulators.

An effort should be made to achieve a high-level of recycling appropriate to the type and nature of the waste material (according to German law life-cycle management of waste materials). The recycling process is considered economically feasible if the costs associated with the process are not out of proportion to the costs that would be incurred by disposal of the waste.

19.1 **Packaging materials**

The packaging is largely made of recyclable and environmentally harmless materials, such as:

- Wood; e.g. pallets and outer packaging
- Metal; e.g. tensioning straps
- Bubble wrap



Take advantage of the opportunity to recycle the packaging in an environmentally friendly manner. Recycling of waste is preferable to disposing of it.

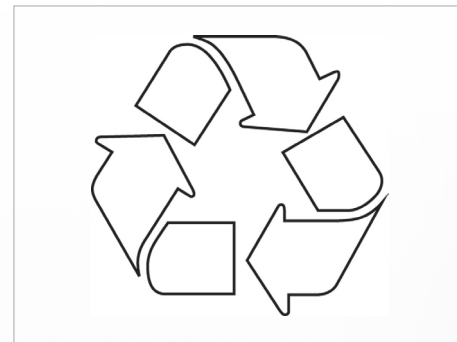


Fig. 104: Recycling

19.2 **Advice on corrosion protection**

All metal parts on your PARAVAN power wheelchair are corrosion-protected, e.g. by hot-dip galvanising, electroplating and powder-coated surfaces.



Please observe the cleaning instructions see „18 Maintenance and servicing“.

19.3 Re-commissioning

If the electric wheelchair has been out of use for an extended period, the following steps should be taken before putting it back into use:

- > Check all safety devices and repair them where necessary
- > Undertake a complete service and revision
- > Clean thoroughly.



The electric wheelchair must be completely cleaned and subjected to a thorough inspection by a service technician authorised by PARAVAN GmbH before being put back into use.



See Section "18 Care and maintenance"

19.4 *Notes on transfer*

Where the PARAVAN electric wheelchair is transferred to new user, all technical documentation required for safe use and operation, such as;

- > The User's Manual and
- > Service logs

must be passed on to the new user.



See Section "18 Care and maintenance"

20. Correcting failures

20.1 Flashing codes indicating the status of the control panel

Error Message:	Meaning:
Centre Joystick	The most common cause of this error is that the joystick is not centred when the control system is switched on. "Joystick off-centre" will appear on the display for five seconds. If the joystick is not released within this time, an error will be generated. Please ensure that the joystick is centred and then switch the control system on. When switching on the control system, make sure that you do not touch the joystick button with your hand.
Low Battery	<p>This message appears when the control system detects that the battery voltage has dropped below 16 V. Check the state of the batteries and the connections in the control system. High battery voltage.</p> <p>This message appears when the control system detects that the battery voltage has risen above 35 V. The most common reason for this is that you have overcharged the battery or there is a bad connection between the control system and the batteries. Check the state of the batteries and the connections in the control system.</p>
Inhibit active	This message appears when one of the blocking inputs is active and locked. Switch the control system off and on again. This will remove the system lock and may get rid of the error. Check all cables and switches on the corresponding blocks.

Error Message	Meaning
Brake Error	<p>Error with the brakes This message appears when the control system detects a problem with the magnetic brakes or their connections.</p> <p>Check the magnetic brakes, cables and connections in the control system. Check that the motor brakes have not come uncoupled. Motor error This message appears when the control system detects that the connection to a motor has been interrupted. Check the motors, cables and connections in the control system.</p>
Gone to sleep	<p>This message appears when the control system has been inactive for longer than the [time] period defined by the "SleepTimer" parameter. Gyro disconnected This message appears when the control system detects that the gyro module is no longer connected. Reconnect the gyro module and restart the system. Bad cable This message appears when the control system detects an error in the cabling that allows the modules to communicate with each other. Check whether the cables or connections have been interrupted or squashed/jammed. If there is any visible damage to the cables, replace them and switch the control system off and on again. Please speak to customer services about getting a replacement.</p>

21. **Electrical system**

21.1 **Automatic safety switches**

The PARAVAN electric wheelchair is equipped with two automatically triggered safety switches and an electrical overload protection mechanism. Taken individually, they may be described as follows:

- > **Main safety switch:** The main switch protects the electric wheelchair's entire electrical system from any overload of electrical devices by activating immediately to cut off electricity from your electric wheelchair.



See Section "21.2 Main safety switch"

- > **Secondary safety switch:** This protects all other electric devices and ancillary devices, such as breathing apparatuses.



See Section "21.3 Secondary safety switch"

- > **Protection against overload:** When you are travelling downhill the power generated is channelled into the accumulators. Where the accumulators are already charged, then the safety system switches to emergency stop.



See Section "21.4 Protection against overload"

21.2 The main safety switch



The main safety switch is positioned at the rear of the electric wheelchair on the left.



A pivoted green flag indicates that the main safety switch has been activated (triggered).

21.2.1 Resetting the main safety switch

- Push the flag ① indicating that the mains switch has been activated ② back into its original position ③. -> You should be able to hear and feel it click back into place.
- The electric wheelchair is now ready for use once more.

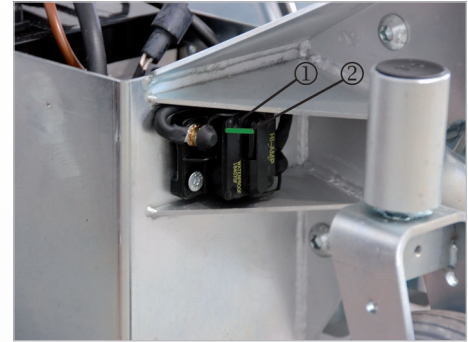


Fig. 105: Main safety switch, activ

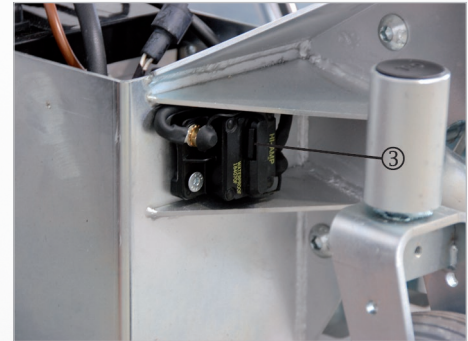


Fig. 106: Main safety switch

21.3 The secondary safety switch

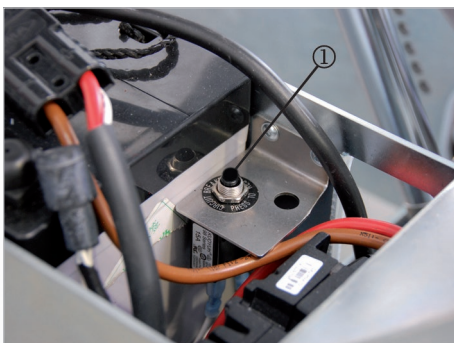


Fig. 107: Sec. safety switch, activ.



The secondary safety switch can be found on the left under the electric wheelchair's cladding.



A raised button ① indicates that the secondary safety switch has activated.

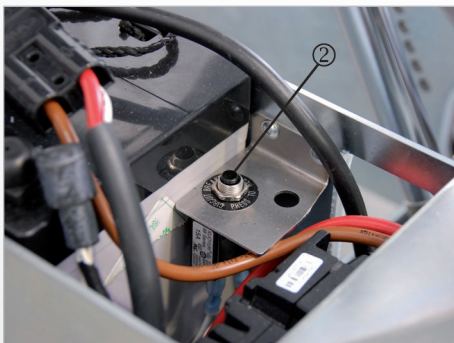


Fig. 108: Secondary safety switch

21.3.1 Resetting the secondary safety switch

> Remove cladding.



See Section "12 Removing and reattaching the chassis cladding"

> Press the safety button ② in.

> Reattach cladding.

> The electric wheelchair is now ready for use once more.

21.4 **Operating the battery disconnect switch**

By activating the battery disconnect switch, the installed 2x12 V AGM batteries are disconnected from the power circuit of the wheelchair to ensure safe transport.

The disconnect switch is located on the right rear part of the chassis below the panelling. Turning and removing the disconnect key will disconnect the batteries so that the wheelchair cannot be started up even by pressing the on switch on the joystick.

Completely fold up the wheelchair and ensure that nothing can be damaged during transport. Switch off the control unit.

Now turn the key 90° and remove it, now no more adjustment can be made. The chair can now only be pushed by disengaging the mechanical brake on the motor. After securely lashing the wheelchair, lock the brakes again.



Fig. 109: Battery disconnect switch



Fig. 110: Battery dicon. switch, inactive

21.5 Overload protection



The electricity generated when travelling downhill (when the drive motors act as dynamos) is directed into the accumulators. If you have fully recharged your electric wheelchair before starting the downhill stretch the safety system switches to emergency stop in order to prevent damage to the electrical system (control, electronics, etc.).



If the overload protection feature is activated (triggered) then this will be indicated by a slow braking of the electric wheelchair until it stops moving.

21.5.1 Resetting the overload protection:

- > Switch on an electrical device, such as your lighting. The excess electric power will then be quickly consumed.
- > The electric wheelchair is now ready for use once more.

21.6 Facility to connect ancillary devices



The PARAVAN electric wheelchair provides the facility to connect a variety of ancillary devices with a voltage of 12 or 24 volts to the electric wheelchair's own on-board network.

If you have a need for this facility – for example for a breathing apparatus, please contact PARAVAN GmbH. The external connections will be made to suit the needs of the affected user and the cable loop will be cut or relayed as necessary.



See Section "1.1 Your manufacturer"

21.7 The lighting system

Depending on the variant you have chosen, your PARAVAN electric wheelchair may be equipped with a complete set of road-approved lighting using LED technology. The use of LED lamps means that lamp replacement or maintenance tasks are practically no longer necessary. If your electric wheelchair was delivered to you without a lighting system, you can retrofit the system at any time.

Take the following steps in the following sequence when switching on the lighting system:

- > Select the menu in the control.
- > Switch on the lighting.



See Section "16 Controls"

Components of the lighting system:

- > LED front headlight ①
- > LED directional indicator ②
- > LED tail light ③



Fig. 111: Front illumination



Fig. 112: Rear illumination

21.8 *The maintenance-free accumulators*

Your PARAVAN electric wheelchair is fitted with high-quality, high-performance accumulators. These maintenance-free accumulators are entirely enclosed. The system is not designed to need or allow any refilling or topping up the electrolyte (battery acid).

The state of charge or capacity of the accumulators can be seen from the control panel.

- > Red zone: Low capacity, must be recharged immediately.
- > Yellow zone: Sufficient energy still available, recharge as soon as the opportunity arises.
- > Green zone: Accumulator fully loaded, full capacity.



See Section "16 Controls"



See Section "21.10 Charging the electric wheelchair"

21.9 Notes on accumulators



The enclosed accumulators should never be opened. Opening the accumulators will cause irreparable damage to these components, possibly resulting in a complete loss of energy supply.



See Section "23.1 Dealing with closed accumulators"



The accumulators should always be recharged using the supplied recharging device after every spell of use (even if use of charge was minimal during the spell). Always connect the recharger when the electric wheelchair is not in use. The recharger supplied switches automatically to "maintain charge", thus guaranteeing you that your accumulators in your electric wheelchair will always be ready for use and fully charged. If the accumulators are left in an uncharged state for too long they will become deeply discharged and will no longer be capable of recharging and/or will need to be replaced.



See Section "21.10.2 The charging device"



Observe the relevant regulations on waste disposal when disposing of the accumulators. Please consult the local or municipal authorities responsible for this issue or talk directly to a waste disposal company.



See Section "19 Disposal and environmental protection"

21.10 Changing your accumulators

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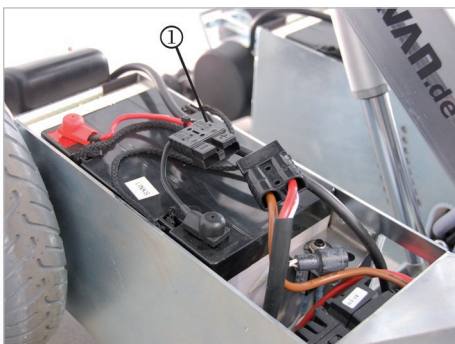


Fig. 113: Power connection

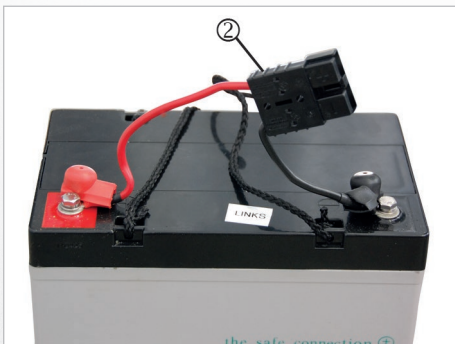


Fig. 114: Refitting, accumulator



If it should become necessary to replace the accumulators in your electric wheelchair, let your service technician or dealer do the work in order to guarantee the safe function of your electric wheelchair.

- > Move the lift arm upwards.
- > Remove cladding.



See Section "12 Removing and reattaching the chassis cladding"

- > Disconnect power connection ①.
- > Disassemble the accumulators -> Remove the accumulators from the battery casing using the hand straps provided.
- > Transfer the remaining part of the power connection ② onto the new accumulator.
- > Place the new accumulator in the battery casing.
- > Reconnect the power connection ①.
- > Re-attach cladding.
- > Execute a functional check.



Charge the accumulators only with the charging device supplied. The recharging device is available in 2 models:

- > "Indoor" for use in indoor areas
- > "Outdoor" for use outdoors



When using the external charging socket, the joystick is deactivated during the charging process. This means that the wheelchair is completely inoperable during the charging process!

Care tips:

- > Make sure that the accumulators are always charged to full capacity.
- > The best way to do this is to recharge nightly.
- > The charging time for your electric wheelchair should be 8 hours without any interruption.
- > The charging cycle is complete when the green lamp lights up.
- > Always keep your electric wheelchair connected to the recharging device when not in use (to maintain its charge).



If you follow these care tips, your accumulator will provide you with the highest possible performance and longest possible service life.



See Section "21.7 The maintenance-free accumulators"



See Section "21.8 Notes on accumulators"

21.10.1 Procedure for charging your electric wheelchair

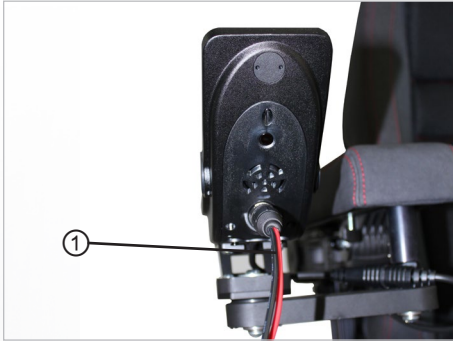


Fig. 115: Plug in the charging cable

- > Switch electric wheelchair off.
- > Place the charging device on a heat-resistant surface e.g. the foot supports.
- > Insert the charging device plug ① into the charging socket on the control panel.
- > Connect the charging device to the mains supply -> charging has started.
- > Check the charging status -> has it reached full capacity? The recharging process is now complete.
- > Dismantle the recharging device in the opposite sequence.



After completing charging, undo the connection between the mains supply at the mains plug from the charging device.

21.10.2 The charging device

The charging device is suitable for automatic charging of the accumulators. The charging device is protected by a water-resistant sheet-steel housing. This complies with the directives and safety regulations of:

- > 2006/95/EC Low Voltage Directive
- > 2004/108/EC Electromagnetic Compatibility Directive



Read the Users' Manual packed separately with the charging device.

21.10.3 Positioning the charging device

- > Use only in dry areas.
- > Do not cover any openings on the housing.
- > Ensure adequate ventilation.
- > Do not place in the vicinity of devices giving off heat radiation (e.g. under lamps, beside heating, etc.)



During charging position the charging device on the foot supports of the wheelchair.



Fig. 116: Pos. the charging device

22. *Technical equipment*

22.1 *Technical data and dimensions*

22.1.1 The average lifespan

We assume an expected average product life of 8-10 years for this product, provided that the product is used within the intended use and all maintenance and service specifications are complied with.

When the life cycle expires, this date can be extended annually after evaluation by the manufacturer PARAVAN.

The service life of your product depends on the frequency of use, the environment in which it is used and the care it receives. The service life can be extended by using original spare parts.



The stated service life does not constitute an additional guarantee!


22.1.2 Technical Data

Orthopaedic seat K630 seating unit	
Lifting function as measured without seat	360mm - 800mm
Tilting	Forward 21° Backward 50°
Back angle	Backward 67°
Adjustment of foot position	120mm
Seat length adjustment, optional	180mm
Foot angle adjustment, optional	0° - 90°
Electric foot rest, optional	0° - 90°
Head support	5 positions
Armrest	6 axes with 12 individual adjustments
Weights	
Empty weight including accumulators, without seat	133kg
Maximum load	120kg (standard), 140kg,160kg (optional)

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22.1.3 Dimensions

Dimensions	
Total width of chassis without seat (Standard seat fully within the chassis width)	640mm
Total length without foot rests, forward movement.	990mm
Total length without foot rests, reverse movement.	900mm
Total height, standard seat, including head support	1240mm
Total height, standard seat, without head support	1050mm
Electrics	
Accumulators	2 x 12 Volt
Lights	turn signal front and rear lights
Range	35km
Suspension / tyres	
Distance between wheels for drive axle	560mm
Distance between wheels for rear axle	370mm
Wheelbase	640mm
Dimensions of front wheel	3.00 - 8
Dimensions of rear wheel	2.00 x 50

Driving properties	
Floor clearance	70mm
Maximum height of obstacles	60mm
Turning radius	780mm
Maximum slope (uphill)	12° = 21%**
Maximum slope (downhill)	10° = 17%**
Maximum lateral slope	6° = 11%**
Speed	Standard 6 km/h, optional max. 10km/h*
* The maximum range was measured under test conditions. Weight, terrain and weather conditions may influence this figure in everyday operation.	
** When travelling on steeply inclined terrains do not use top speed, and also travel with particular care where the seat height has been adjusted, there is seat tilt or where the seat length has been changed, and on uneven surfaces (e.g. grass, gravel, sand, ice and snow)!	
 See Section "3 Notes on safety"	

22.2 Replacement parts



The replacement of original parts by thirdparty components or by reproduction (copied) original parts is strictly forbidden! Obtain your spare parts exclusively from your dealer or from PARAVAN GmbH.



See Section "1.1 Your manufacturer"



WARNING

Danger of personal injury when operating the electric wheelchair in a state not conforming to its state upon delivery.

Material damage to the electric wheelchair through non-authorized or incorrectly installed components.

- > Do not make any technical changes to your electric wheelchair.
- > Only operate your electric wheelchair in its original state upon delivery.
- > Use only original or authorised replacement parts.

23. ***Systems and technical documentation***

23.1 ***How to deal with closed accumulators***

Where accumulators are completely enclosed, the oxygen liberated at the positive electrode by water decomposition is channelled via a glass fibre mat from the positive to the negative electrode and finally converted back into water at the end of a series of chemical reactions. During charging, a proportion of that oxygen leaks into the common gas area. With closed accumulators, the housing of the accumulator is designed to hold in the pressure by stronger walls in order to prevent the short-term excess oxygen from escaping before being fully recombined at the negative electrode. Where charging is done improperly, hydrogen will be emitted as well as oxygen at the negative electrode.

This hydrogen will not be converted into water but may escape through the safety valve if a threshold excess pressure is reached, possibly reaching the oxygen contained in the gas space. If you avoid improper charging, no water is lost by enclosed accumulators and the accumulators are entirely maintenance-free. During storage and energy consumption there is no oxygen in the gas space and the accumulator will be under a negative pressure. Any valve release should be avoided in all circumstances, since oxidation will occur on the negative electrode if atmospheric oxygen enters the system. This leads to irreparable damage, up to and including total failure of the accumulator.

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23.2 *Maintenance plan & maintenance recommendations*

When	What	Note
Before driving	General Check for proper function	Carry out check yourself or with an assistant
	Check magnetic brake	Carry out check yourself or with an assistant If the power wheelchair can be pushed, have the brake repaired immediately by a specialist workshop. - Danger of accident!
Before driving in the dark	the lighting unit Check that the lighting system & reflectors are working properly	Carry out check yourself or with an assistant
Check, if driving behaviour is suspicious	Have the tyre pressure checked.	Visit a specialist workshop. (Sanitary shop/contact PARAVAN)
	Adjustment screws & Bolt connections Check screws or nuts for tight fit.	Carry out check yourself or with an assistant Tighten loosened screws. Visit a specialist workshop.

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When	What	Note
Every 6- 8 months	Wheel fastenings Check wheel nuts or bolts for tightness	Carry out check yourself or with an assistant Tighten loosened wheel nuts or bolts firmly and retighten after 10 operating hours or 50 km If necessary, visit a specialist workshop.
Every 2 months	Check tyre tread Minimum tread depth = 1 mm	Carry out visual inspection yourself or with an assistant. If the tyre tread is worn or damaged, consult a specialist workshop for repair..
Every 6 months	Check: - Cleanliness - General condition	See chapter 18.2 Cleaning & maintenance Carry out yourself or with an assistant.
Every 12 months	Inspection work - Wheelchair - Charger	To be carried out by the specialist workshop

23.3 *Customer service book*

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- > 1. Inspection (12 months after commissioning)
Date: _____ Signature: _____

Stamp: _____

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- > 2. Inspection (annual)
Date: _____ Signature: _____

Stamp: _____

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- > 3. Inspection (annual)
Date: _____ Signature: _____

Stamp: _____

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- > 4. Inspection (annual)
Date: _____ Signature: _____

Stamp: _____

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> 5. Inspection (annual)
Date:

Signature:

Stamp:

> 6. Inspection (annual)
Date:

Signature:

Stamp:

> 7. Inspection (annual)
Date:

Signature:

Stamp:

> 8. Inspection (annual)
Date:

Signature:

Stamp:

23.4 EU Declaration of Conformity



Declaration of Conformity

Version 1

PARAVAN GmbH
Paravanstraße 5-10
72539 Pfronstetten-Alchelaun
GERMANY

We declare under our sole responsibility that the product listed below

Wir erklären in alleiniger Verantwortung, dass das unten aufgeführte Produkt
Nous déclarons sans notre responsabilité que le dispositif médical

Product description; Code, Type, Model, Intended purpose

Produktbezeichnung, Code, Typ, Modell, Anwendungszweck

Description du produit, code, type, modèle, destination,

Power Wheelchair, designed for the mobility of a person with disability indoors and outdoors.

Elektronrollstuhl, konzipiert für die Mobilität einer Person mit Behinderung im Innen- und Außenbereich.

Fauteuil roulant électrique conçu pour la mobilité d'une personne handicapée à l'intérieur et à l'extérieur.

PR30

G052122390

PARAVAN GmbH

Paravanstraße 5-10

72539 Pfronstetten Alchelaun

GERMANY

DE:MF-000006423

Single registration number (SRN)

meets all the provisions of the Regulation (EU) 2017 /745 on medical devices, especially Annex I - III, which apply to it.

allen Anforderungen der Verordnung (EU) 2017/745 über Medizinprodukte, insbesondere Anhang III, entspricht, die anwendbar sind
remplit toutes les exigences du Règlement (UE) 2017/745 relatif aux dispositifs médicaux, en particulier annexe III, qui le concernent.

Device Classification according to Annex VIII

Produktklassifizierung nach Anhang VIII

Class I

Klasse I

Classe I

Initial date of first Declaration of Conformity:

Erstmalige Ausstellung der Konformitätserklärung:

Année de première Déclaration de Conformité :

03/2013

31.12.2025

Valid until:

Gültig bis:

valable jusqu'au:

Operations Manager

Roland Arnold

Geschäftsführer

Le Directeur des Opérations

Kreisbank AG Reutlingen IBAN: DE56 4436 0009 0100 0046 10 BIC: SKL3 3333
Volksbank AG Reutlingen IBAN: DE46 4009 3000 0042 7426 10 BIC: GENO 3333
Commerzbank AG Reutlingen IBAN: DE27 6404 0033 0428 8270 00 BIC: COBA DE33 3333
IK 590841201

Place and issue date:

Ausstellungsort und -datum:

Lieu et date de délivrance:

Alchelaun, 20.05.2021

Fig. 117: EU Declaration of Conformity

23.5 Protocol of the handover briefing

Due to the flexible options available for setting up your electric wheelchair, you must observe the following points:

Where there is tilt:

- It should be ensured that the seat is not leaning out too far to the front or back, as this may mean you might slip out of the seat.
- The tilting is set suitably for your body weight.
- First set tilt, and then set the back support.
- Where using tilting always wear your safety belt.
- Where using tilting travel only at half the speed of the selected driving level.

Seat and back support in the special orthopaedic seat:

- Adjust the back support only as far as absolutely necessary as the motor does not have the power to lift the weight of the driver. Use the tilt function first.
- Be careful of other components (the backpack, etc.) when adjusting the back support and tilting.

Lifting arm:

- Ensure head and leg clearance when lifting and lowering the seat. Foot rests should not come into contact with the ground.
- With the seat left extended more than about 100mm the electric wheelchair will move at only half speed.

Foot rests:

- When adjusting the height and angle of the foot rests, be careful that the height does not make contact with the seat padding.
- The foot rest setting must be higher than any obstacle. In addition, the foot rest must not become caught up by the obstacle, as this may cause the electric wheelchair to topple over.

Seat adjustment forward and back:

- When you are moving the seat back or forwards, make sure that the foot supports positioned at a low height.
- When driving the electric wheelchair, make sure that the seat is not in its foremost position, as this could generate a danger of overbalancing!

Control/Joystick

- Your electric wheelchair is controlled by moving the joystick forwards, backwards and from side to side on the control panel

PARAVAN®

PARAVAN WHEELCHAIR SERIES

User manual **PR 30**

ORIGINAL INSTRUCTION MANUAL



 **EN** V3.5

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