



**PROACTIV<sup>®</sup>**




# Usage instructions Service booklet

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**HUSK-E**  
Adaptive bike

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The following instructions are intended for and may only be carried out by the rehabilitation specialist dealer or PRO ACTIV.



This document is available in PDF format at [www.proactiv-gmbh.com](http://www.proactiv-gmbh.com) for visually impaired people. Using the zoom function, the font can be increased as desired.

## 1 Preface

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Dear Customer,

Congratulations on purchasing your new PRO ACTIV product. You have bought a quality product that has been specially customised to meet your requirements. We have put together some instructions about its proper and safe use in the following document. Please read these instructions before using the product.

The standard components are explained in these usage instructions. If you have individual solutions or non-standard components on your product, your rehabilitation specialist dealer or PRO ACTIV would be happy to deal with any questions you may have about using it.

You can always download the latest version of the usage instructions as a PDF document in our download area at [www.proactiv-gmbh.com](http://www.proactiv-gmbh.com).

If you have any further questions about this or any of our other products, we would be glad to be at your disposal.

Enjoy your trips and the best possible mobility.

Your PRO ACTIV team

## 2 Legend

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The symbols used in these usage instructions have the following meanings:



Manufacturer



Warnings and safety instructions



Serial number


## 3 Conformity/other information

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### 3.1 Classification

The HUSK-E adaptive bike (in the following referred to as "product") is classified as a class 1 product.

### 3.2 Conformity

 As the manufacturer, PRO ACTIV Reha-Technik GmbH declares that the respective product is a class I product and meets the requirements of the EU Medical Devices Directive (2017/745).

If the product is adapted in a manner which has not been agreed by PRO ACTIV Reha-Technik GmbH, this declaration becomes void.

### 3.3 Manufacturer



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## 4 Scope of delivery and testing the product upon receipt

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The product may only be operated with an adapter supplied by PRO ACTIV which is suitable for the wheelchair.

The scope of delivery includes the product configured in accordance with the order, rechargeable battery/batteries, display/operating console, mains power charger, usage instructions including record of training/hand-over certificate and inspection lists. You can view the basic equipment in chapter "Technical specifications". As per your order, the product is equipped with additional recommended accessories, such as special handles or manoeuvring rollers.

Please check that the delivery is complete after you have received your product.

The product is tested to ensure it is completely functional before shipping and packed in special boxes.

However, please check the product immediately upon receipt, preferably in the presence of the freight company, for any damage which may have occurred in transit. If you are of the opinion that damage has occurred during transit, please do the following:

1. Record a statement of facts in the presence of the freight company - photo documentation of the packaged product and the unpacked product with detailed images of product damage
2. Preparation of a declaration of assignment - you assign all claims from this damage to the freight company.
3. Statement of facts/photo documentation, delivery note, and declaration of assignment are sent to PRO ACTIV.


Failing to observe these instructions, or reporting damage after acceptance, means that the damage cannot be acknowledged.

PRO ACTIV will subsequently review the damage and discuss the further procedure with you (shipment of replacement parts, returning the product to PRO ACTIV for a complete repair, etc.).


## 5 Introduction


Before starting your first trip, familiarise yourself with these usage instructions and the usage instructions for the coupled wheelchair, paying particular attention to all the safety information and hazard warnings they contain.


Allow your therapists and doctors to advise you, your carers, and assistants on how to use the product and what you are safe to do with the product based on your current ability.


 Under no circumstances should you do anything with or in the product which you have not learnt to do and have not mastered.


You, your carers, and assistants should also seek advice from your therapists and doctors as well as the rehabilitation specialist dealer about the use and settings of your product as well as all the safety accessories available (e.g. chest belt and waist-belt).


 It is then vital that the advice from doctors, therapists and the rehabilitation specialist dealer on the necessary safety accessories should be followed.


 If you are not sure how to handle the product or if technical faults occur, please contact your rehabilitation specialist dealer or PRO ACTIV before using it.


 When operating the product, the wheelchair usage instructions must also be observed. Information on limit values must not be exceeded. If the values in the two sets of usage instructions differ, the lower limit is the one which applies.


 The control software is programmed at the factory to ensure that the legal requirements for a pedelec drive are met. If changing the software, it must be ensured that these requirements are still met.


 Never leave the product unattended, either when it is switched on or switched off. If this cannot be avoided, removing the rechargeable battery/batteries can help prevent unauthorised use.

 Secure the product against unauthorised use and theft.

 When combining your product with equipment made by other manufacturers, make sure that the individual components and the unit made up of them still work appropriately. You can get information on the suitability of a combination from the manufacturer of the third-party components or from your rehabilitation specialist retailer.

 The product contains small parts that may pose a choking hazard for children.

 The wheelchair with the adapted product must be equipped in accordance with road traffic regulations when operated in public areas, roads, paths, and spaces.

 The product may be used only in conjunction with the approved adapter. Weight limitations must be observed while doing so. The Heavy Duty version of the product may be used only with the Heavy Duty version of the adapter.

## 6 Purpose and indication

This product is an electrically-supported, manual adaptive bike that is coupled to a human-powered wheelchair with the aim of preserving or increasing the independent mobility of an active wheelchair user to the greatest extent possible. The electric drive system supports the active cranking motion of the arms by the user, therefore making locomotion easier.

Indications: Walking impediment or limited ability to walk due to paralysis, limb loss, limb defect/deformation, joint contractions/joint damage, neurological and muscular diseases.

Contraindications: Progressive muscle diseases, the course of which is accelerated due to fatigue of the arm and core muscles used (e.g. muscle dystrophies and atrophies) and accompanying epilepsy disorders (legal stipulations on freedom from seizures for a permit for use on public roads apply here).

In addition - for safety reasons - the product may only be operated by people who

- can move and coordinate their hands, arms, and head (when using the chin to operate the starting aid and the gears if manual function is unavailable) so that they can operate all control elements and conduct full, unrestricted steering movements during the trip.
- are physically and mentally capable and have the visual ability to safely operate the product in all operating situations and can meet the legal requirements for use on

public roads. For children or people with mental, significant motor or visual impairments, the attendants can ensure the required traffic safety as a substitute and as a companion.

- have been trained in its use by the rehabilitation specialist dealer or PRO ACTIV.

## 7 Proper use

This adaptive bike is designed to be used outdoors on tarmac and adequately paved roads that ensure traction and stability of the product when driving and braking. When used indoors, there must be enough space for manoeuvring. Avoid driving in poor weather conditions (e.g., storms) since this can lead to incalculable risks. This product is characterised by its bottom bracket supports that can be adjusted without tools, which enable positioning in two driving positions, one adaptation position plus complete folding.

The maximum permissible load for the product in the standard version is generally 120 kg of towing capacity and 100 kg towing capacity for the version with the E6100 motor. The maximum permissible load is 10 kg respectively. Individual customisations can be designed for a greater load; this is then indicated on the rating plate. Please ensure that the load limit indicated on the ratings plate is not exceeded when transporting objects.

### Recommended equipment:

The wheelchair should be equipped with a wheelbase extension; the maximum permissible load for the wheelbase extension must then be observed. Before driving with the traction system, the wheelchair wheels should then be positioned in the wheelbase extension. This allows better distribution of the weight between the drive wheel of the product and the wheelchair wheels to be achieved. This minimises the risk of the product wheel slipping on slopes.



Figure 1: Removable wheelbase extension

**Recommended equipment:**

The wheelchair can be equipped with an anti-roll back device that can be activated before driving on slopes. The anti-roll back device can also be used if the wheelbase extension is used on the wheelchair.



Figure 2: Anti-roll back device

Proper use of the product is a basic requirement of safe operation. The product may generally be used only for applications that are listed and described in these usage instructions. This includes storage, transport, maintenance/inspection, and repair, as well as the safety information in each chapter of these usage instructions.

**8 Technical specifications**

**8.1 Drive system**

**8.1.1 General instructions**

The technical specifications, information and usage instructions about the drive system can be found in the included usage instructions from the drive manufacturer.

**8.1.2 Travel range**

The range of the drive system varies depending on the travelled terrain, the prevailing driving conditions, and the user weight. Under optimal driving conditions (user applying maximum force onto the pedal crank, level terrain, fully charged rechargeable battery/batteries, new rechargeable battery/batteries, ambient temperature of 20°C, constant speed, optimal tyre pressure, no headwind, etc.), and a user weight of approx. 85 kg, the following ranges can be achieved:

With a Shimano 36 V rechargeable battery, 14 Ah, 504 Wh: 45 - 75 km

With a Shimano 36 V rechargeable battery, 17.5 Ah, 630 Wh: 55 - 85 km

With a Shimano 36 V double rechargeable battery, 14 Ah, 504 Wh: 90 - 150 km

With a Shimano 36 V double rechargeable battery, 17.5 Ah, 630 Wh: 110 - 170 km

**8.1.3 Speed**

A continuously adjustable speed of up to **4 km/h** can be achieved using the **pushing aid or starting aid** without moving the crank. Motor support above this speed is **only provided with manual rotation** of the pedal crank. Motor support is provided up to a maximum speed of **24.9 km/h**.

**8.2 Climbing power**

The **climbing power** refers to the ability of the wheelchair-product combination to climb a slope. This strongly depends on the weight distribution between the wheelchair wheels and the product's drive wheel, the total weight of the combination, and the friction coefficient of the ground. Under sub-optimal conditions (e.g. slippery ground when wet), the drive wheel may start to spin before the maximum climbing power has been reached.



Under optimal conditions (optimal tyre pressure, wheelchair wheels in the wheelbase extension, dry, clean and firm ground, etc.), the product is capable of climbing the following slopes with a speed greater than 2 km/h:

10 % or 6°

The slope that can be driven up using the product-wheelchair combination is dependent on the manual driving force applied by the user as well as the maximum climbing power.

### 8.3 Product weight

The total weight starts from 16.7 kg with the basic equipment (including one rechargeable battery).

### 8.4 Load weight

#### **Maximum load weight:**

120 kg towing capacity and 10 kg payload

#### **Maximum load weight for the version with the E6100 motor:**

100 kg towing capacity and 10 kg payload

Individual customisations can be designed for a greater load; this is then indicated on the rating plate. In this case, an adapter is required for heavier loads. The Heavy Duty version of the adapter is approved for 120 kg - 200 kg.

When operating the product, the wheelchair usage instructions must also be observed. Information on limit values must not be exceeded. If the values in the two sets of usage instructions differ, the lower limit is the one which applies.

### 8.5 Obstacle height and turning circle

**Maximum drive-over/negotiable obstacle height:** 10 cm (must be ensured through an appropriate adapter assembly/setting, caster wheels must be removed (→ recommended equipment of the wheelchair: caster forks with quick-release axle))

This value can, however, be reduced due to the specifications of the type of wheelchair or its settings. Therefore, you should observe the values given in the wheelchair's usage instructions or the restrictions dependent on the settings.

#### **Turning circle:**

- approx. 4 m without manoeuvring back and forth
- approx. 2.6 m with manoeuvring back and forth (strongly dependent on the number of manoeuvres)

### 8.6 Basic equipment and dimensions

In its basic version, the product comprises one drive unit with docking plate, parking stand and adjustable/folding bottom bracket support, handles with shifting and brake fittings, hydraulic disk brake and parking brake. The drive system is available with derailleur, hub gear or hub gear with integrated back-peddalling brake. Furthermore, there is a light set and a mudguard on the product.

#### **HUSK-E dimensions:**

Product height: approx. 100 - 110 cm, depending on the locking position of the bottom bracket support

Product width: approx. 43-61 cm (depending on the grip width, parking stand in passive position)

Grip width: 40 - 58 cm

Crank length: 155 - 195 cm

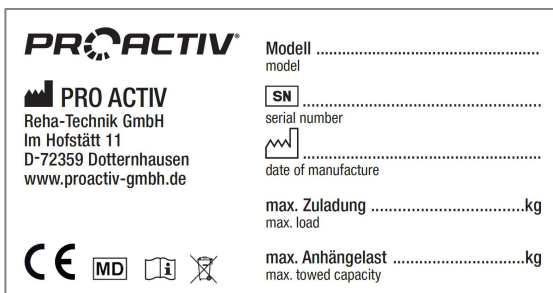
### 8.7 Service life


The service life of the product is 6 years.

## 9 Rating plate & markings on the product

The **rating plate** is located next to the docking plate. The rating plate includes the model, the serial number and other technical specifications.


When contacting your rehabilitation specialist dealer or PRO ACTIV with regard to your product, please always have the serial number and year of construction on the rating plate at hand.




 CE marking  
"European conformity"


 Medical device

 Manufacturer

 Follow the usage instructions

 Serial number

 Date of manufacture

 Electric components must be properly disposed of at government-designated recycling facilities

## 10 Commissioning and handover

The product will be handed over to you ready for use by a rehabilitation specialist dealer or a field representative or by a product consultant from PRO ACTIV. They will fit, if not already done, the required fastening elements to your wheelchair to hold the adapter and, if required, any other accessories. The height of the parking stand is also adjusted correctly.

Finally, you will be fully instructed in the use of the product based on the usage instructions included in delivery. You will be handed over a record of training and handover certificate as written proof. In addition, you will be handed the usage instructions and, if necessary, further accessories for your own use. It is recommended that you take along an assistant to the training so that, if required, they can assist you later when handling the product.

During the hand-over, the record of training (chapter 31) and the hand-over certificate including the associated check list (chapter 32) must be filled in. The rehabilitation specialist dealer should send the completed documents to PRO ACTIV for filing as a file by e-mail or in the form of a copy by fax or in the post.

## 11 Introduction to the product and the surroundings


During the initial commissioning of the product, drive at minimum speed and become accustomed to the driving characteristics of the product. Always adapt the speed and driving manoeuvres to match your own abilities, the external circumstances and the legal regulations. You will get a feel for how to use the product safely after a short time. Before driving up or down slopes or hills with the product, you should be proficient in the safe handling of the product on level ground. Get familiar with the braking distance at different speeds.


Get to know the environment in which you wish to use the product. Look out for obstacles and learn how to overcome or avoid them.


Get familiar with the road traffic regulations, since these must be observed when driving on public roads.


## 12 Safety instructions – prior to driving/use


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 If your wheelchair is operated in combination with the product, any existing anti-tipping supports must be put into their passive position or removed (see the wheelchair's usage instructions). If the wheelchair is then used without the product, the anti-tipping supports must be brought back into their operating position again to ensure tipping stability.


 Before every trip, check the condition of the wheels of the wheelchair-product combination (e.g. visual inspection of the spokes and rims, check the tyres for damage, foreign bodies and crack formation). If you have any doubts, the wheelchair-product combination must not be operated any further. In this case, contact your rehabilitation specialist dealer or PRO ACTIV.


 Check the air pressure in the tyres of the wheelchair-product combination at regular intervals. Ensure that you comply with the manufacturer's specifications which can be found on the tyres. When the tyre pressure is too low, it has a detrimental effect on the driving behaviour, the range, and the braking reaction of the product. Moreover, there is an increased risk of a flat tyre.


 Before starting your trip, check all electrical plug connections for firm contact and the rechargeable batteries for firm seating in the rechargeable battery holders.


 Before starting your trip, check the functioning of the product's brake. If all existing brakes are not fully functional, no trips may be taken.


 Before every trip, check that the product is firmly attached to the adapter and that the adapter is firmly attached to the wheelchair. The product may not be operated on the wheelchair if any of the connections are not tight and secure. In this case, contact your rehabilitation specialist dealer or PRO ACTIV.


 Always ensure that your feet cannot slip off the footplate support of the wheelchair when using the product.

 Depending on the equipment, the product may have folding/closing mechanisms that pose a risk of crushing injuries (e.g. pinching your fingers). For this reason, please allow your rehabilitation specialist dealer to explain how to work these mechanisms and then have a go yourself under instruction.

 Check the function of the front and rear lights as well as the effectiveness of the side and rear reflectors before every trip. Lights and reflectors must be clearly visible during the trip and must not be covered by objects.


 It is recommended that you only take a trip with completely charged rechargeable batteries. If this recommendation is not followed, you must take into account that the range will be restricted when planning your route. When driving long distances, it is recommended to take along a fully charged replacement rechargeable battery.


 To minimise the risk of suffering serious head injuries in the event of a fall, a helmet should always be worn when driving with the product.

 When travelling, always carry a repair kit and tyre pump for repairs in event of punctured/flat tyre. An alternative to this is an emergency puncture repair spray that fills your tyre with a foam that hardens in the tyre.


## 13 Safety instructions – while driving/using


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 The usage instructions of the connected wheelchair must be strictly observed when using the product.


 Please note that some parts of your product can become extremely hot in high ambient temperatures. This means that above 50°C, the product may be damaged and above


40°C there is already the risk of burns for the user, which should not be underestimated, particularly for people with impaired sensitivity. For this reason, the product should not be exposed to such extreme temperatures. PRO ACTIV cannot accept any liability or provide any warranty for personal injury and material damage caused by such stresses. Similarly, there are also certain risks at extremely low temperatures.


 Always hold onto the crank handles with both hands while driving, braking, and manoeuvring. If a driving situation requires you to take one hand off the crank handle, make sure the speed has been reduced to the minimum possible beforehand.


 When driving in curves, reduce your speed to a minimum and if possible, lean your upper body towards the curve.


 Do not ride parallel to slopes and inclinations due to the risk of tipping.


 You may only drive on slopes where the wheelchair-product combination can be safely controlled by steering and braking of the product.


 Do not stop on a steep slope, otherwise there is a risk of losing control of the product. If possible, do not turn on a slope or change your direction.


 Never turn the product off on upwards or downwards slopes. This could result in dangerous situations to which you can only react with a delay in terms of electrical assistance or virtually not at all by manual means.


 When the drive system is switched on, the smallest movement on the crank handle is converted into a drive command. When waiting at potential hazard areas (e.g. while waiting at a pedestrian crossing or at ramps), always keep the service brakes applied and keep the crank handles in a vertical position downwards.


 In rooms, tight or dangerous areas or when manoeuvring, the product may only be used with the drive inactive and turned off to prevent unintentional drive signals. Due to the increased turning circle, it can be difficult to turn in buildings, in front of or in lifts or other buildings, as the standard in such buildings assumes a maximum turning circle of 1.5 m.


 Do not attach objects (carrier bags, etc.) to the product. These could cause an unwanted drive impulse when stationary and prevent safe operation of the product while driving.


 At twilight and in the dark and in bad lighting and weather conditions, always switch on the lights on the product and on the coupled wheelchair.


 When driving in areas that are approved for pedestrians, keep to the maximum permitted speed (walking speed 6 km/h) and maintain sufficient lateral distance (at least the width of a wheelchair) from obstacles and other road users.


 When driving on public areas, roads, paths, and spaces, the provisions of the German road traffic regulations (StVO) and road traffic licensing regulations (StVZO) must be observed.


 Avoid driving on unpaved or loose surfaces (e.g. on loose gravel, in sand, mud, snow, ice or through deep puddles of water).


 When travelling on poorly maintained paths (e.g. coarse gravel, potholes), there is an increased risk of puncturing your tyres as well as tipping.


 You must not make telephone calls while driving. You should also avoid driving near to strong electrical interference fields. The driving characteristics of the product can be influenced by electromagnetic fields.


 The product can affect other devices, for example theft protection barriers in department stores.


 By performing regular checks, ensure that the safety bolts of the adapter are always in the correct position while driving (see usage instructions "Adapter and adaptation").


 When driving, never jerk the handlebar, as this could possibly cause the wheelchair-product combination to tip over sideways.


 While driving, never grab onto the wheelchair wheels, in the area of the product wheel, in the area of the chain / sprockets / chain wheels, or into other rotating parts; if you do, you may cause injuries.

 During long trips the brakes and the drive of the product may heat up. Therefore, do not touch the brakes or the drive during or immediately after the trip.

 If the situation allows it, the speed should be reduced by carefully applying the service brake. Abrupt braking can cause the upper body to fall forwards which can thereby result in injuries or loss of vehicle control.


 If the weight load on the drive wheel decreases (e.g. when driving on slopes) or when driving on loose/slippery surfaces, the braking action of the wheel may be considerably reduced. The driving style and speed should be adjusted so that the product can be safely stopped at all times using the brakes.


 Towing or using a trailer is not permitted.


 Make sure that cables and lines are not kinked or tangled somewhere. This could cause them to be damaged which could lead to the brakes and gear shift not working correctly. In this case, the product must no longer be operated.


## 14 Safety instructions regarding obstacles

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 Driving on steps and escalators with the product is forbidden.

 The maximum obstacle height which can be negotiated is 10 cm. This value can, however, be reduced due to the specifications of the type of wheelchair or its settings. Therefore, you should observe the values given in the wheelchair's usage instructions or the restrictions dependent on the settings.

 When driving over or passing obstacles, it is important that you avoid any product or body parts catching on the obstacle as this may lead to falls causing serious injuries to the user and third parties as well as damage to the product.

 Always drive over curbs or other obstacles so that you cross them to the front or at right angles and at the minimum required speed. If you approach them at an angle or pass over an obstacle with just one rear wheel, there is an increased risk of tipping over to the side.

## 15 Safety instructions regarding dangerous locations and dangerous situations


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The operator of the product determines the route to be driven themselves, taking the usage instructions, their driving knowledge, and physical abilities into consideration.


Personal driving skills are particularly important in the following dangerous locations that are provided as examples; the product user must use their judgement before driving in such locations:


- quay walls, landing and berthing locations, paths and locations close to water, unsecured bridges and dykes.
- narrow paths, slopes (e.g. ramps and driveways), narrow paths on a slope, mountainous routes.


- narrow and/or steeply sloping paths along main roads or near cliffs.
- routes that are covered in leaves, snow or ice.
- ramps and lifting equipment on vehicles.

 When driving in a curve or turning on hills or downward slopes, there may be an increased tendency to tip over to the side due to the changes in the centre of gravity. Avoid such driving manoeuvres. If these cannot be avoided, perform these driving manoeuvres with increased caution and only at a very slow speed. If necessary, the driving manoeuvre must not be performed or only with the help of an assistant.

 Use particular caution when approaching stairs, edges, drops or other hazard areas.

 Extreme caution is needed when crossing main roads, intersections and level crossings. Crossing rails in the road or at level crossings must never be undertaken while driving parallel, otherwise the wheels could become caught which would result in the wheelchair and the product being unable to manoeuvre.

 Before driving on a ramp and lifting equipment on vehicles, ensure that they are wide enough so that you do not risk one of the product or wheelchair wheels slipping off the ramp. During the lifting or lowering operation of the ramp or the lifting equipment, the drive system must be switched off and the service brake of the product must be actuated. Always keep the product in the middle of the ramp.


 The grip of the tyres on the ground is reduced under wet conditions. There is an increased risk of slipping. Adjust your driving, braking and steering behaviour accordingly.


## 16 Ending the driving operation

Switch off the drive (chapter 20.7.1). To make getting out of the wheelchair more simple, the product can be disconnected from the wheelchair (see usage instructions "Adapter and adaptation").

The product may only be disconnected with the drive turned off to prevent any unintended drive signals.

## 17 Safety instructions – after driving/use


 Always turn off the drive system immediately when it is not in use to prevent accidental triggering of a drive signal by touching the crank handle and to prevent the rechargeable batteries being discharged.


 Always observe the usage instructions and recommendations in the drive manufacturer's usage instructions concerning charging the rechargeable batteries.

## 18 Adapter and adaptation

Where necessary and ordered, a suitable adapter for your wheelchair is included with the delivery.


Please read the usage instructions and assembly usage instructions "Adapter and adaptation" before using the product.


 The product may only be adapted and uncoupled when the drive system is switched off and on firm and even ground.


 The adapter must at least have the same user weight approval as the product.

## 19 Drive wheel and tyre pressure

Check the tyre inflation pressure at regular intervals as well as after extreme temperature effects. The **recommended tyre pressure is printed on the side of the tyre**. This should be observed.

 Insufficient tyre pressure has a negative effect on the handling. Apart from that, there is an increased risk of a flat tyre.

 If the pressure is too high, the tyre may burst. For this reason, product tyres may not be exposed to unusually high temperatures such as under glass in the summer.

 When inflating the tyres, make sure that the prescribed air pressure is not exceeded.

**To check or correct the tyre pressure,** proceed as follows:

1. Secure the product to prevent it rolling away.
2. The drive wheel is normally fitted with a car tyre valve. Unscrew the valve cap.



Figure 3: Valve with cap

3. Place the valve attachment of the compressed air device or the compressor onto the valve and, if a clamp lever is available, secure the connection by applying the clamp lever.
4. Now check the tyre pressure. If the tyre pressure does not match the specifications, correct it.

5. Finally release the clamp lever (if present), pull the valve attachment off the valve and replace the valve cap.



Figure 4: Compressor

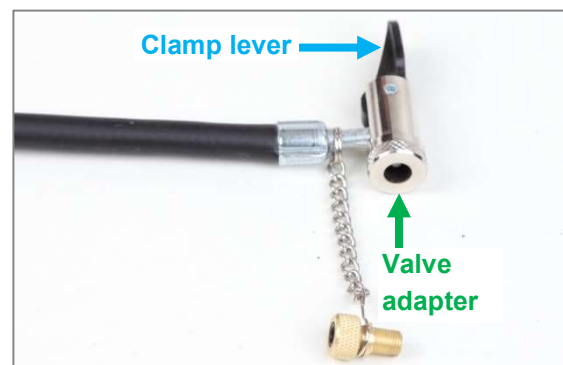


Figure 5: Valve adapter and clamp lever of the compressor

## 20 Functional elements

### 20.1 Parking stand

#### 20.1.1 Active and passive positions

By pressing down and turning the operating lever outwards or inwards, the parking stand position can be changed from the passive to the active position and vice versa. The passive position can also be called the travel position. The parking stand is then folded in to save space.



Figure 6: Press down and turn the operating lever




Figure 7: Parking stand in the active position



Figure 8: Parking stand in the passive position

**20.1.2 Parking stand height adjustment**

 The following instructions are intended for and may only be carried out by a rehabilitation specialist dealer or PROACTIV

The height adjustment of the parking stand is important in order to bring the docking plate of the product to the correct (height) position relative to the adapter.

For setting the height of the parking stand, the following must be observed: the dimension from the floor to the lower edge of the front of the insertion maul (on the wheelchair side) should correspond with the dimension from the ground to the upper edge of the insertion bolt (on the product side). As soon as there is a deviation from these two dimensions due to the hole pattern, the dimension from the ground to the upper edge of the insertion bolt may be up to max. 1 cm larger. In this case, the product can be inserted into the adapter by tipping slightly to the rear (via the parking stand).

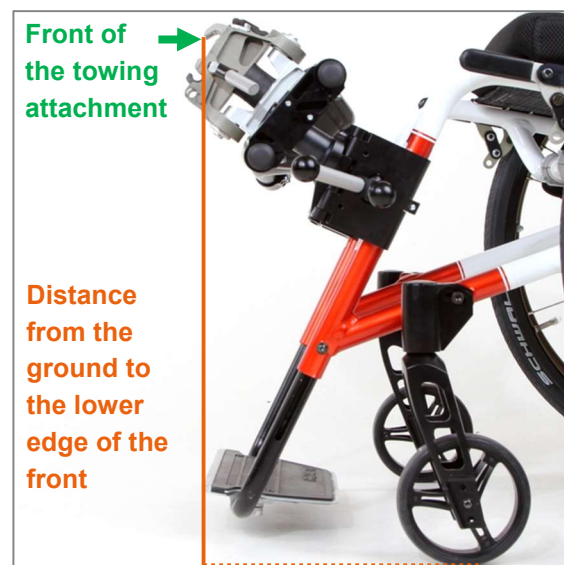


Figure 9: Measurement from the ground to the lower edge of the front of the towing attachment

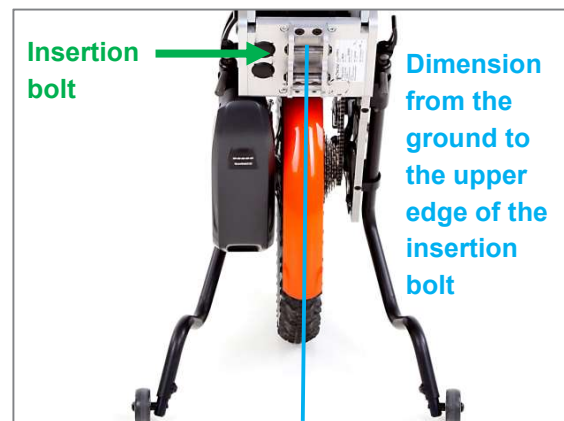


Figure 10: Dimension from the ground to the upper edge of the insertion bolt



The **height of the parking stand** is adjusted by unscrewing the M6 oval head screw (AF 4 mm) with the radius disc and repositioning the adjustment inlet along the specified row of holes in the parking stand and inlet. Finally, retighten the M6 oval head screw (AF 4 mm) up to 11 Nm of torque.

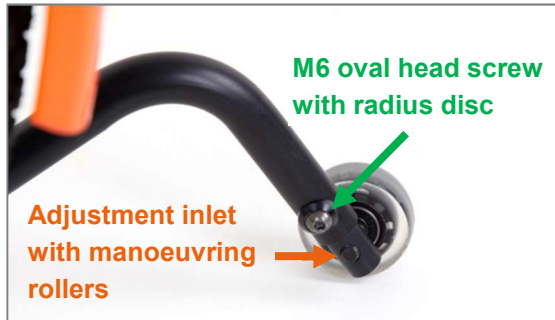


Figure 11: M6 oval head screw with radius disc and adjustment inlet to adjust the height of the parking stand

#### Information when equipping with

**manoeuvring rollers:** After adjusting the height of the parking stand, the manoeuvring roller must be positioned in the active position outside on the parking stand.

## 20.2 Bottom bracket support and crank

### 20.2.1 Seating position

The seating position and therefore the bottom bracket position and the crank length depend on the upper body stability or the core strength. A suitable adjustment to the arm length will have been made during the consultation / measurement procedure.

**With weak core strength**, the seating position should normally be chosen so that the upper body remains still in an upright position when operating the crank while driving. Rocking motion of the upper body or the head should be avoided where possible. The height of the bottom bracket in this case is selected to be slightly higher (chest height or higher).

**Sporty users with the appropriate trunk stability** relieve their arm muscles by moving their trunk at the same time. The height of the bottom bracket in this case can be selected to be slightly lower (chest height or lower).

The following points must be fulfilled for the proper seating position:

- The cranks must not touch the knee or thigh when they are being turned.
- The elbows should not be completely extended when the crank handles point completely forward away from the body.



A suitable restraint system must be used if you have poor seating stability due to a lack of or weak core strength. The selection of the suitable system must be made in conjunction with your doctor or therapist and/or defined and implemented by your rehabilitation specialist dealer. There are various systems available such as chest straps or four-point safety belts. Rehabilitation specialist dealers can also often create a customised system or adapt commercially available systems.

#### Recommended equipment:

PRO ACTIV also offers restraint systems such as hip straps with belt and Velcro fastener and chest straps of various lengths.

### 20.2.2 Folding down the bottom bracket support

The full bottom bracket support can be folded down on your product to obtain a significantly reduced pack size. There are always four locking positions on the bottom bracket support. These are held via a locking bolt. One locking position is for the folded state, one is for docking the product to the wheelchair to free up more space in the upper body area, and two positions can be used as travel positions.

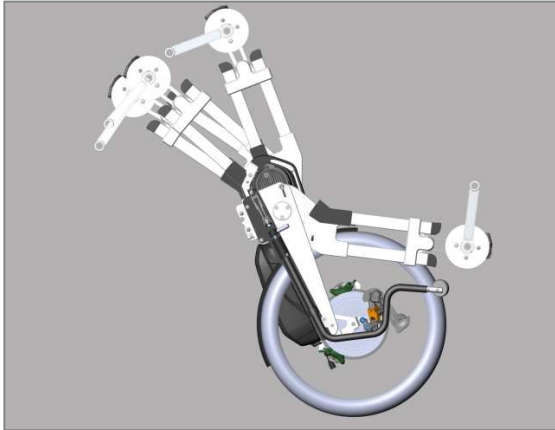


Figure 12: Positions of the bottom bracket support

**⚠** Mechanically with the crank release function if the product is equipped with a PROACTIV back-peddalling brake: To fold down the bottom bracket support for transport, the crank release function must be activated since the brake cable would otherwise be torn.

**Note when equipping the product with a luggage rack:** To fold down the bottom bracket support for transport, the luggage rack must be removed (Chapter 20.10).

In order to fold down the bottom bracket support, the eccentric lever must be opened on the left and right at the fork so that they stop tensioning. Then turn the locking bolt 180° to turn in the locking pin. A locking notch keeps the pin in this position. Now the bottom bracket support can be folded down. To latch the pin into a locking position again, the pin must be turned out of the locking notch.

**⚠** As soon as the bottom bracket support is in one of both driving positions and you wish to drive the product, the eccentric lever must be tensioned.

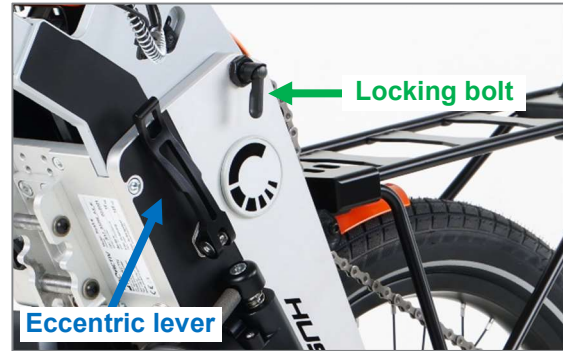


Figure 13: Eccentric lever and locking bolt for folding down the bottom bracket support



**Video** Folding and adjusting the angle of the bottom bracket support

### 20.2.3 Bottom bracket position

Using the **adjustable bottom bracket support**, the angle and length of the bottom bracket position can be adjusted.

The **angle is adjusted** via the locking position of the locking bolt on the right fork tube and/or gearing directly below the bottom bracket.

1. **Adjusting the angle via the locking position of the locking bolt:** The locking bolt on the fork tube can always lock into two positions for the travel position. Please consult chapter “20.2.2 Folding down the bottom bracket support” for the adjustment process. If neither of the two positions is optimal, there is the option of turning the screwed-in insert, which produces two additional positions for the bottom bracket support. To do this, remove the M5 countersunk screw (AF 3 mm) used to fasten the insert. Remove the insert and reinsert it turned by 180° so that what used to be the front side of the insert is now pointing towards the rear. Afterwards, tighten up the M5 countersunk screw at 4 Nm and secure it with thread lock fluid.



Figure 14: Bottom bracket positions



Figure 15: Standard position of the insert

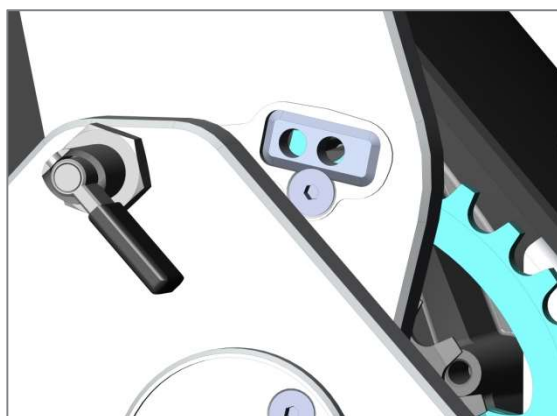


Figure 16: Alternative position of the insert for additional positions of the bottom bracket support



Video Folding and adjusting the angle of the bottom bracket support

- Adjusting the angle via the gearing directly below the bottom bracket:** To do this, loosen the M8 clamp screw (AF 6 mm) of the angle gearing and the M6 tensioning screw (AF 4 mm) for the chain tensioning. The angle of the bottom bracket can subsequently be adjusted upwards or downwards by 4 cm. This change may make it necessary to turn the plastic chain guides in the rectangular tube to prevent the chains from grinding onto the rectangular tube. To do this, lift the plastic chain guide from the pipe using a slotted screwdriver and reinsert it turned by 180°. When you have finished adjusting the angle, tighten up the M8 clamp screw (AF 6 mm) to 17 Nm torque and secure it with thread lock fluid. Apart from that, now the chain must be retensioned using the M6 tensioning screw.

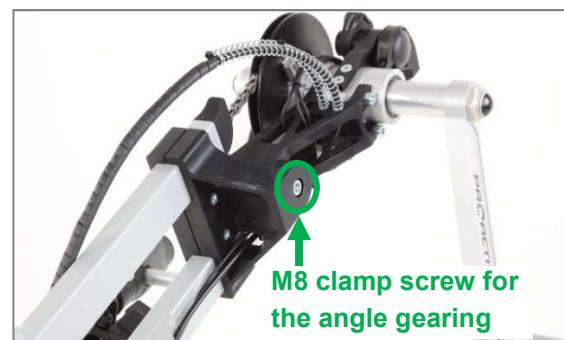


Figure 17: M8 clamp screw for the angle gearing for adjusting the angle of the bottom bracket position

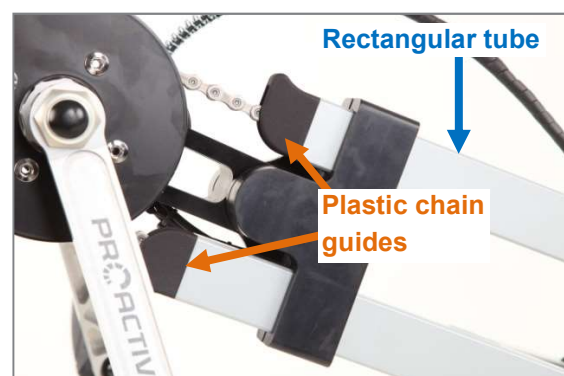



Figure 18: Plastic chain guides in rectangular tube




Figure 19: Plastic chain guides in rectangular tube

 The following instructions are intended for and may only be carried out by a rehabilitation specialist dealer or PRO ACTIV

To **adjust the length**, two M6 clamp screws (AF 5 mm) must be loosened on the bottom bracket base holder. Then the bottom bracket can be moved to the desired position along the corrugation on the lower rectangular tube. To finish, tighten up the four M6 clamp screws (AF 5 mm) to 7 Nm torque and secure them with thread lock fluid.



Figure 20: M6 clamp screws on the bottom bracket base holder for adjusting the length

 Please note that, after a large adjustment to the chain bottom bracket position, the lines and the cable lengths must be adjusted.

### 20.2.4 Crank length and grip width

The **crank length** can be chosen from different lengths individually to suit the length of the arms and mobility of the user. Different widths of bottom bracket shafts and spacers between the pedal cranks and the rotary axes of the handles are available to adjust the **grip width**.

If you want to make a change to the crank length or grip width, please contact your rehabilitation specialist dealer or PRO ACTIV.

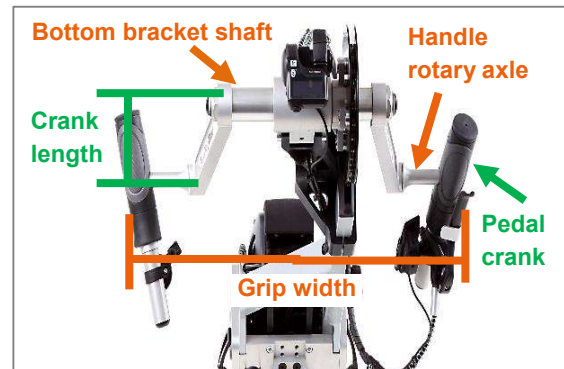



Figure 21: Crank length and grip width

### 20.3 Grips

The grips must be held firmly with both hands whilst driving and always held so that the cables and lines are oriented upwards.



Figure 22: Correct grip hold

 Always hold onto the crank handles with both hands while driving, braking, and manoeuvring. If a driving situation requires you to take one hand off the crank handle, make sure the speed has been reduced to the minimum possible beforehand.

## 20.4 Gear shift

### 20.4.1 Derailleur

With the derailleur, the gears can only be changed while the crank is moving. Changing the gear with the cranks stationary is not possible. In general, the torque applied to the cranks should be reduced briefly while changing the gear so that the gear change can happen more quickly.

The gearshift control elements are normally designed so that they can be operated using thumb / index finger shift control (for mechanical gear systems) or buttons (for electronic Di2 gear systems). With the cassette at the bottom, switching to the next largest sprocket means a lower or easier gear and to the next smallest sprocket a larger or more difficult gear.

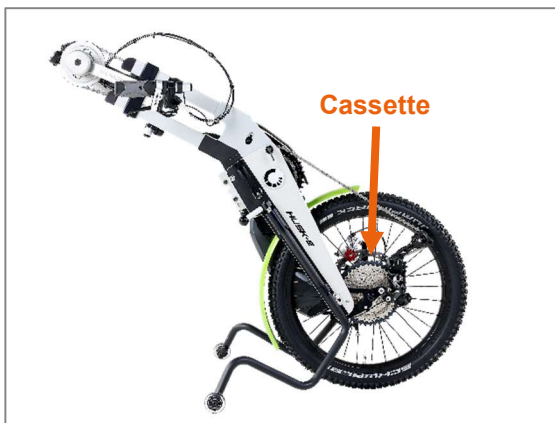


Figure 23: Cassette

With the **thumb / index finger shift control**, gear changes are achieved by:

- "Thumb switch" – operation by pressing in the direction of travel with the thumb
- "Index finger switch" – operation by pulling in the opposite direction of travel with the index finger or using the thumb to press against the direction of travel.

The mechanical gearshifts do not provide a display for the gear selected. There is only an orientation as to which sprocket is currently being used via a display above the handle.

In electronic Di2 gearshift, you can shift up or down by pressing the **button**.



Figure 24: Operation via the button

On an electronic Di2 gearshift, gear changes are achieved by:

- Pressing the small button with your thumb to shift up.
- Pressing the large button with your thumb to shift down.



Figure 25: Buttons for shifting up and down

On an electronic gearshift with buttons, the current gear is shown on the display.

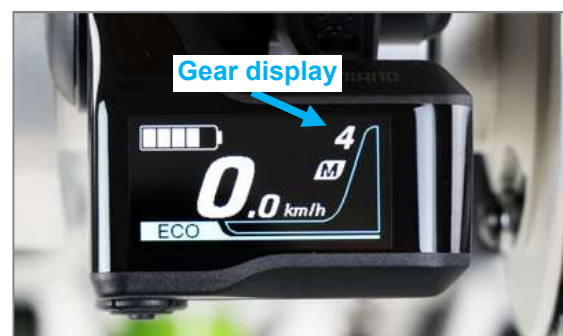


Figure 26: Displaying the current gear on the display

For more information on derailleur gear systems, please see the instructions provided by the gear manufacturer.

### 20.4.2 Hub gear

With the **hub gear Di2** integrated into the drive, the gears can be changed while stationary and also while driving. This hub gear is operated either manually via the Di2 **button** (Fig. 25 and 26) or via the **automatic gearshift**. To switch between automatic and manual mode, you must simultaneously press both buttons for 2 seconds.

With manual operation via the Di2 button, gear changes are achieved by (Fig. 25):

- Pressing the small button with your thumb to shift up.
- Pressing the large button with your thumb to shift down.

Please refer to the gear or drive manufacturers' instructions for more information about the hub gears.

### 20.4.3 Chin operation option for derailleur and hub gear systems

It is also possible to operate the gearshift by shifting gears with your chin. One of the two **buttons** of the Di2 button on the left in the direction of travel can be pressed to shift up; one of the two buttons of the Di2 button on the right in the direction of travel can be pressed to shift down. The current gear is always shown on the display. (Fig. 26).



Figure 27: Chin operation via buttons

## 20.5 Brakes

Normally, there is one travel and one parking brake fitted to the product.

Please note that the braking effect can be strongly reduced by one or all of the following conditions:

- Worn tyre profile
- Soiled and wet tyres
- Wet, soiled, loose and uneven ground
- Decreasing weight load

### 20.5.1 Disc brake

The disk brakes are operated manually using the brake lever.

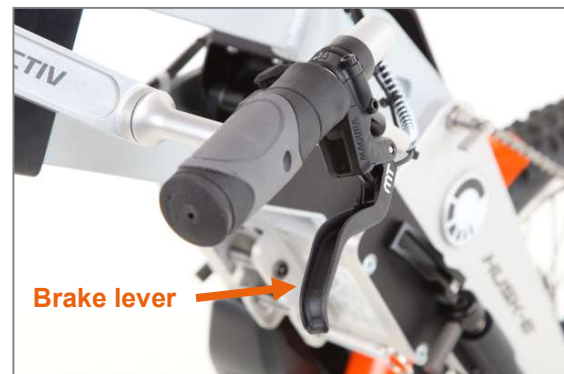


Figure 28: Brake lever

**⚠** In the event of abrupt, hard braking, there is a risk that you might fall forward with your upper body. Slowing down should be done very carefully.

**⚠** At regular intervals, check that the brake pads and discs are free from grease, oil or other contamination. In addition, check the thickness of the brake disc. The minimum thickness is printed on the brake disc. In addition, the brake pad thickness must be checked with a measuring calliper. The minimum pad thickness plus support material is 2.5 mm.

You can find further information in the brake manufacturer's instructions.

### 20.5.2 Parking brake

A **mechanical disc brake with a locking lever** is installed as a parking brake as standard. The brake is lifted or released by turning the lever. The lever always maintains the set position. If the brake was applied while stationary, it must be released before starting the trip.



Figure 29: Parking brake via locking lever

Alternatively, an **aluminium bracket** that is attached to the bottom bracket support is an option. With it, one of the two brakes can be used as a parking brake. For this purpose, the aluminium bracket is clamped over the grip and the brake lever while the brake lever is depressed.



Figure 30: Aluminium bracket as a parking brake

### 20.5.3 Back-peddalling brake on the Shimano Di2 hub gear

The back-peddalling brake is operated by rotating the crank backwards. The braking force applied is adjusted by the strength of rotating backwards.

### 20.5.4 PRO ACTIV mechanical back-peddalling brake with crank release function

The PRO ACTIV back-peddalling brake is a mechanical disc brake.

The back-peddalling brake is delivered with a crank release function that allows reverse driving and manoeuvring via the hand rims. As: For functional reasons, the back-peddalling brake always acts as soon as the product moves backwards. Therefore, the user must “unlock” the reverse movement first by operating the crank release function.

The braking function via the backward movement (crank movement against the direction of acceleration) is always guaranteed – with the crank release function activated or deactivated.

The **braking force applied** is adjusted by the strength of rotating the cranks backwards. The braking force applied is adjusted by the strength of rotating backwards.

The **crank release function is operated** by pressing the side pressure plate. To activate the crank release function, the left-hand pressure plate must be operated (seen from the direction of travel). To return to normal driving operation with the back-peddalling brake, the right-hand pressure plate must be operated.

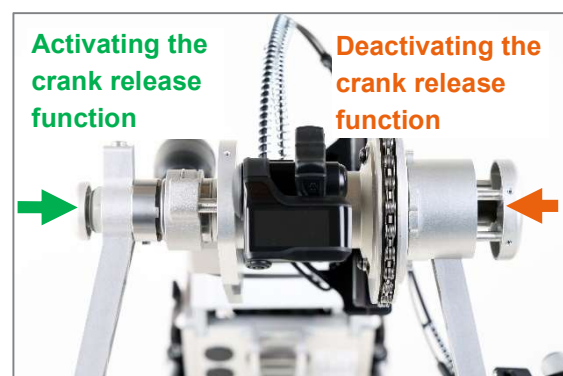





Figure 31: Left- and right-hand pressure plates





**Video** Operating the back-peddalling brake with crank release function

 To fold down the bottom bracket support for transport, the crank release function must be activated since the brake cable would otherwise be torn.

 Before every trip, test the brakes by moving the cranks with the normal operating force in the direction opposite to acceleration. The drive wheel must not be able to move when the system is operated.

 At regular intervals, check that all of the connections and that all the screw connections on the brake system are tightened securely.


 At regular intervals, check that the brake pads and discs are free from grease, oil or other contamination. In addition, check the thickness of the brake disc. The minimum thickness is printed on the brake disc. In addition, the brake pad thickness must be checked with a measuring calliper. The minimum pad thickness plus support material is 2.5 mm.


 Do not drive if your brake system is faulty in one of the previously listed points. Contact your rehabilitation specialist dealer immediately, who will arrange for maintenance by PRO ACTIV.


## 20.6 Rechargeable battery pack


### 20.6.1 General instructions


Please refer to the accompanying documentation from the drive manufacturer concerning the handling as well as the insertion and removal of the rechargeable battery. Please always comply with the safety instructions in the usage instructions from the drive manufacturer.


 Improper handling of the rechargeable battery can cause electrolyte fluid to leak. This can cause skin injuries or damage to clothing. If skin or eyes come into contact with the electrolyte fluid, they must be rinsed with pure water and a doctor consulted immediately.


 The rechargeable batteries may not be exposed to heat or fire or be burned. External heat effects can cause the rechargeable batteries to explode. The rechargeable battery must not be submerged in water or be splashed with water. Always ensure that the rechargeable battery remains dry and clean.


 The rechargeable battery may not be opened or taken apart. Improper opening or deliberate destruction of the rechargeable battery bears the risk of severe injury. All warranty claims expire when the rechargeable battery is opened.


 Rechargeable batteries that have suffered mechanical damage may no longer be used.

 The contacts of the rechargeable batteries must not be short-circuited. A short-circuit causes very high currents which could damage the rechargeable batteries and/or the product.

 The product's rechargeable batteries may only be charged using the original charger from the manufacturer which was supplied.

 The charger may only be used under dry conditions. Protect it from rain and humidity, fire and high temperatures. Avoid temperature fluctuations that can cause condensation.

 During the charging process, the charger may not be covered with any objects.

 Never unplug a connection when the system is switched on.

### 20.6.2 Change-over device for double rechargeable batteries

The change-over device lets you switch between the two rechargeable batteries. The top socket is connected to the right rechargeable battery, and the bottom one to the left rechargeable battery.



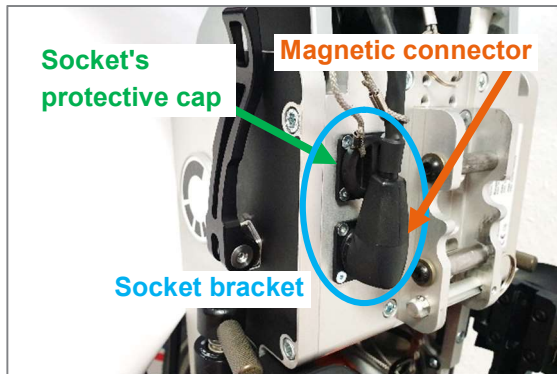


Figure 32: Change-over device at the rear fork bridge with sockets, magnetic connectors, and protective cap

The following figure shows the position of the rechargeable battery's magnetic connector if the right rechargeable battery is connected.

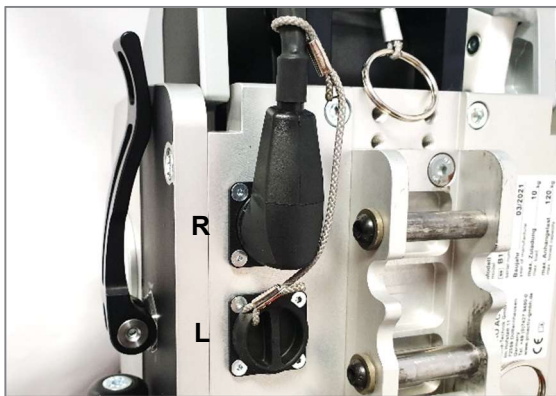


Figure 33: Right rechargeable battery connected, magnetic connector in upper socket

To switch from the right rechargeable battery to the left rechargeable battery, both rechargeable batteries must first be switched off.



Figure 34: On and off button on the rechargeable battery

Now remove the protective cap on the lower socket. Afterwards, the magnetic connector can be reconnected from the upper socket into the lower socket. Afterwards, place the protective cap of the socket in the upper socket.

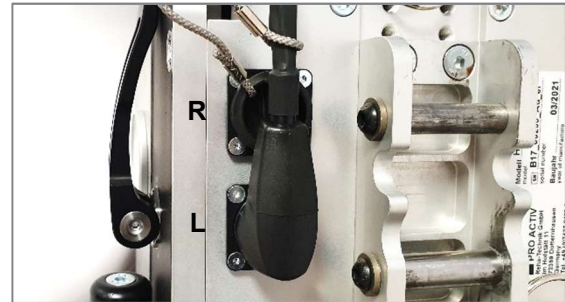


Figure 35: Left rechargeable battery connected, magnetic connector in lower socket

Then switch the drive system on the left rechargeable battery back on.

**⚠** Both rechargeable batteries must be switched off to switch between the rechargeable batteries.

**⚠** To prevent short-circuits due to moisture, the protective cap must be placed on the socket that does not have a magnetic connector.



**Video** Change-over device for double rechargeable batteries - switching between the two rechargeable batteries

### 20.6.3 Removing and inserting the rechargeable battery in the double rechargeable battery bracket

The insertion of the rechargeable battery into the bracket is described in the attached Shimano usage instructions.

A standard battery bracket is present on the double rechargeable battery bracket on the **left side** in the direction of travel. In this case, the rechargeable battery can be inserted and removed according to the specified steps from the Shimano usage instructions.

Due to space constraints, a swivelling battery bracket is installed on the **right side** in the direction of travel. Before inserting or removing the battery, actuate the push button to unlock and swivel the rechargeable battery bracket outwards. Now the rechargeable battery can be inserted or removed.

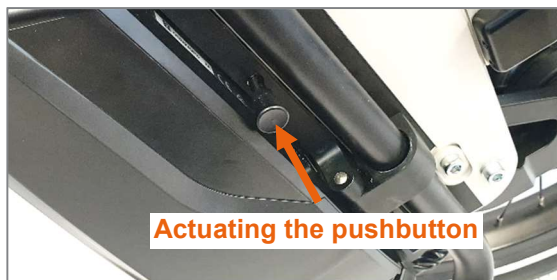


Figure 36: Actuating the pushbutton on the swivelling rechargeable battery bracket

To refasten the rechargeable battery with the bracket, press the battery including the bracket inwards until the bracket audibly locks into place.



Figure 37: Swivelling the rechargeable battery and bracket inwards for fastening



**Video** Removing and inserting the rechargeable battery in the double rechargeable battery bracket, right side

## 20.7 Drive system

The drive manufacturer's usage instructions are included with the product as a supplement to the supplied usage instructions. Operation of the drive system is described there in detail. Please observe the contents of these instructions. You can find a brief summary on some points in the following subchapters:

### 20.7.1 Switching on and off

The main power is turned on and off using the on and off button on the rechargeable battery.



Figure 38: Switching the rechargeable battery on and off

## 20.8 Lights

The basic equipment includes a **light set with a separate rechargeable battery including a charger**. The front lights are installed on the front of the product and the rear lights are generally installed on the cross bar on the back of the coupled wheelchair. The lights are switched on and off using the respective actuation button on the lights.



Figure 39: Actuation button for the front lights

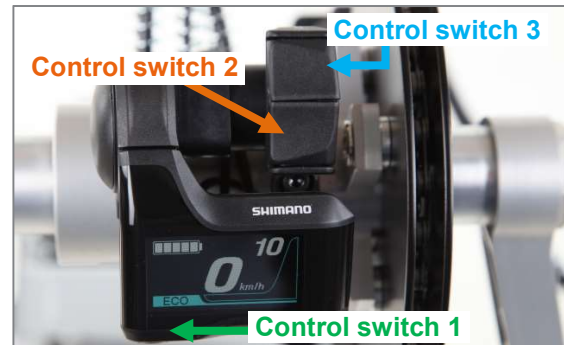


Figure 41: Control switch for activating LED lighting



Figure 40: Actuation button for the rear lights



Figure 42: Front lights of the LED light set

When the product is equipped with an **LED light set** (option), the front lights are supplied by the rechargeable battery/rechargeable batteries of the drive system and are also switched on and off using the display of the drive system. To turn the front lights on and off, press and hold control switch 1 for two seconds and use control switch 2 or 3 to navigate to the “Light” menu item. To enter the menu item, press control switch 1. Afterwards, you must navigate to ON or OFF using control switch 2 or 3 and confirm with switch 1. Please note that the maximum range of the product is reduced when the lights are switched on. Generally, the rear lights are installed on the back cross bar of the coupled wheelchair. The rear lights have their own battery supply and the lights are switched on and off using the actuation button on the rear lights.

## 20.9 Bell

The bell can be actuated with the thumb or index finger without letting go of the handlebar.

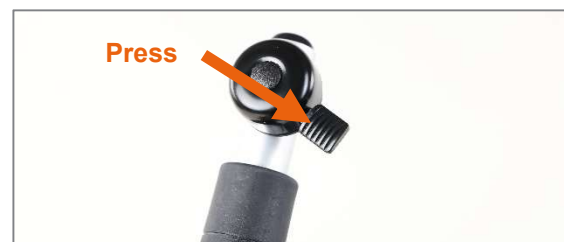


Figure 43: Bell

**20.10 Luggage rack**

To **remove** the luggage rack, pull and hold the cord near the docking plate and pull the luggage rack from the guides.

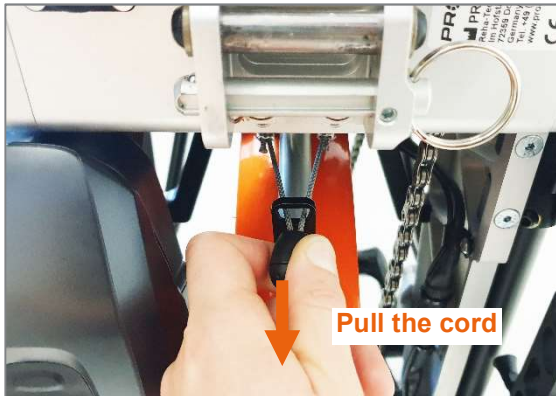


Figure 44: Pulling and holding the cord to remove the luggage rack

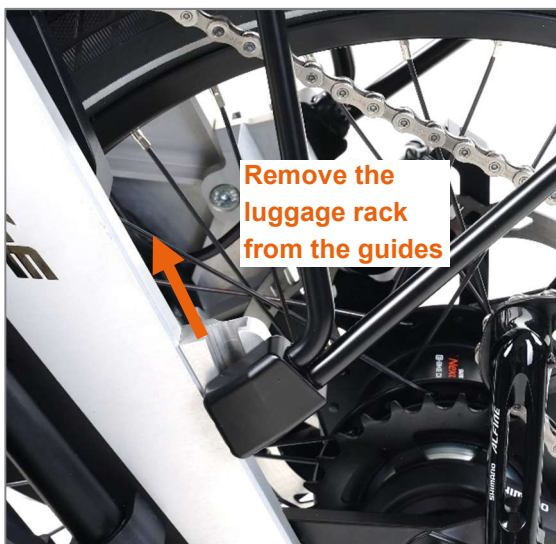


Figure 45: Removing the luggage rack from the guides

To **reattach** the luggage rack, insert the luggage rack into the bottom of the guides and slightly press the luggage rack towards the rear so that the chain is pressed against the chain deflector guide and is then tensioned.

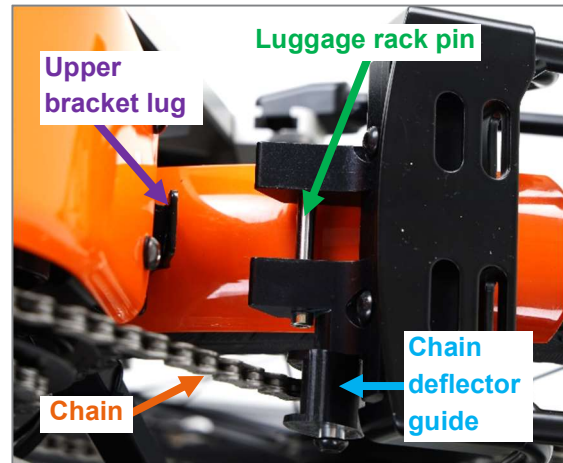


Figure 46: Upper bracket lug, chain deflector guide, luggage rack pin, chain (view from top)

Afterwards, push the luggage rack pin behind the lug of the upper bracket. Now press the luggage rack down until the luggage rack audibly locks into place.



Figure 47: Luggage rack installed, chain deflector guide tensioning the chain



Figure 48: Luggage rack installed



**Video** Removing & attaching the luggage rack

## 20.11 Manufacturer instructions

You will be instructed about the functions and operation of the drive system, gears, brakes and other brand components during the hand-over / training. You can also get information later from the component manufacturers' enclosed usage instructions, or if needed, by asking your rehabilitation specialist dealer or PRO ACTIV.

In the download area of [www.proactiv-gmbh.com](http://www.proactiv-gmbh.com) under the links "more documents >>", we have put together the most important documents. More extensive information can be found on the manufacturers' websites:

Shimano components:  
<https://si.shimano.com>

Magura components:  
[www.magura.com](http://www.magura.com)

Sigma:  
[www.sigmasport.com/en/](http://www.sigmasport.com/en/)

Subject to changes to the links provided by the component manufacturers.


## 21 Storage


Store the product on an easy-to-clean surface in a dry environment, preferably at room temperature from +15°C to +25°C.


For storage, please also observe the instructions in the other sections of these usage instructions and in the component and drive manufacturers' usage instructions included with the delivery, in particular the points about the rechargeable batteries and the electrical drive.


To avoid corrosion and therefore malfunctions or breakages of components, the product may not be exposed to any aggressive

environmental influences (especially salt) or to any strong solar radiation. Because of the effect of salt water in the winter and the humidity on rainy days, it is not recommended to store the product in the garage.

 If the product is not used or is stored over a longer period, if necessary, before using it again, we recommend having a rehabilitation specialist dealer give it a general function and safety check.

 When the rechargeable batteries are stored or taken out of use, they should only be stored with a charge status of between 50% and 70%; they must be charged to 70% at the latest every two months. Before re-use, the rechargeable batteries must be completely charged.

 Store the rechargeable battery in a dry location where it is protected against damage and unauthorized access. The rechargeable battery should never be exposed to extreme temperature fluctuations and it should always be protected from moisture during storage to prevent corrosion of the plug contacts. If the product is stored in a cool location or in a location with temperature fluctuations, it is recommended that the rechargeable battery be removed and stored separately at an appropriately tempered location.

 For the electronic Shimano gearshift: Unused rechargeable batteries should preferably be stored somewhere between 10°C and 25°C.

## 22 Transport

### 22.1 Securing handling of the product

The product must be uncoupled from the wheelchair when loading. When folded down, the product can be held by the cross tube of the bottom bracket and the wheel for loading and transporting. As such, it is useful to actuate the parking brake to prevent the wheel from turning when loading the product.



Figure 49: Pack size

### 22.2 Passenger transport in vehicles



When transporting in vehicles, it must be noted that the product is not approved for use as a seat in vehicles or disabled person's vehicles when combined with a manual wheelchair. The product must be uncoupled from the wheelchair and secured in the vehicle. For transporting the wheelchair user or other persons with their wheelchairs in vehicles, observe the instructions in the usage instructions of the wheelchair.


### 22.3 Securing the product in a vehicle (without a person)


To reduce the weight when loading, the rechargeable batteries can be removed from the product and stored separately. The product and all associated components must be secured during transport so that they are not damaged and do not become a hazard to persons or other products. Before transport, check with your vehicle dealer about safely securing it using the existing fitted lashing rings or other securing devices. Suitable brackets are mostly available in the vehicle and are


described in the operating manual of the vehicle.

When the product is in the transport vehicle, you or the person accompanying you should proceed as follows:

1. Operate the parking brake.
2. Secure and safely stow any components from the product which have been previously removed.
3. Objects that are installed to the product, but do not belong to the product, must be removed and securely stowed.
4. Secure the product with lashing straps. To do this, use the existing securing devices in the vehicle. After securing, the product may not roll, slip or tip over to the side any more.

 The lashing straps used to secure the product in the transport vehicle may only be fitted to the components of the vehicle provided for that purpose and onto the bottom bracket support of the product.

 Do not transport the product on the front passenger seat. The product could slip and impede the driver.


 When loading and securing, make sure that the cables and lines do not get tangled, become kinked or otherwise damaged. The product may not be used with damaged cables and/or lines.

### 22.4 Transport in aircrafts

The lithium rechargeable batteries used are classified as hazardous goods for transport by air. It is not permitted to claim that there is a right to transport them by air. The decision about the transport is the sole responsibility of the airline and this should be discussed in advance of the flight or the booking.

## 23 Malfunctions

In the event of malfunctions that cannot be repaired by yourself based on the usage instructions included in the scope of delivery, please contact your rehabilitation specialist dealer or PRO ACTIV directly.

 Malfunctions must be repaired before any further use or, if they occur during the trip, it must be interrupted immediately.


All serious incidents that have occurred in connection with the product must be reported to the manufacturer and the responsible authority in the state in which the user resides.


## 24 Cleaning and care


Regular cleaning of the product is prescribed to prevent the components becoming clogged up due to dirt. In particular, the product should be carefully cleaned after every major use, e.g. summer or winter holidays.

To avoid corrosion and therefore malfunctions or breakages of components, the product may not be exposed to any aggressive environmental influences. If this cannot be avoided, the product should be cleaned immediately after such use and moving parts need to be greased. Regular cleaning prevents corrosion and increased wear.

In case the product becomes wet when using, please dry it after use.

 Clean your product with water, solvent or neutral cleaning agents. Do not use any abrasive cleaning agents or aggressive, acidic cleaners when cleaning.


 Drive and grip units, as well as the rechargeable batteries, may only be cleaned by rubbing off with a damp (not wet) cloth. Always work with just a little water and keep water away from the electrical contacts.

 The charger may only be cleaned with a dry cloth.

The drive wheel should be regularly cleared of contamination. It is recommended that you use a soft sponge or a soft brush.

After cleaning, check to make sure that the plug connectors are not damp and, if required, allow them to dry before re-starting the product.

In addition, the plug connectors should be lubricated with petroleum jelly after cleaning to protect them against corrosion and moisture.

 The product must not be cleaned using steam or high pressure.


### Recommended care:


If you need care products for your product, please contact PRO ACTIV.


## 25 Maintenance


### 25.1 General instructions


The product is not a maintenance-free device. Therefore, please observe the following instructions about maintenance.


 If repairs are required or there are any defects in your product, in the interests of your own safety, you should contact your rehabilitation specialist dealer or PRO ACTIV before using it again and have the defect remedied. Screws and other elements need to be secured properly again after repairs.

 For tyres with tread: As soon as there is one or more points with less than 1 mm of tread on the product or the adapted wheelchair, the tyres must be changed since otherwise there is an increased risk of an accident.

 For tyres without thread: As soon as there is one or more points where the tyre carcass or the accident protection is visible on the product or the adapted wheelchair, the tyres must be changed since otherwise there is an increased risk of an accident.

 When maintaining the brakes, the switching components, and the gear components, it is imperative that the usage instructions of the manufacturer which were included in delivery are followed.

 Only manufacturer's original parts may be used when ordering spare parts.


 Repairs and conversions to the product may only be carried out by your rehabilitation specialist dealer or PRO ACTIV.

Tightening torques and securing details for fastening elements as shown in the table in chapter 30 must be observed.

## 25.2 Service schedules

There is some **maintenance work or checks which should be carried out by the user themselves** at regular intervals (approximately every 4 weeks depending on the frequency of use):

- The chain should be cleaned and lubricated with chain oil (observe the manufacturer's instructions).
- If equipped with a luggage rack: Check the wear of the chain deflector guide.
- Check the tyres for damage, foreign bodies and any cracks that form.
- Check that the cable housings are seated tightly in the gear cable brackets.
- Cables and lines should be checked for kinks and crushing.
- Check the brake pads.
- Check the tyre pressure and correct if needed (the tyre pressure should always be as printed on the tyre covers).
- Check the eccentric clamp lever of the bottom bracket support to ensure it tensions well.

 If you should discover any problems during these checks, please immediately contact your rehabilitation specialist dealer or PRO ACTIV. Service and repair work on the product may only be carried out by your rehabilitation specialist dealer or PRO ACTIV.

In addition to these maintenance tasks/checks by the user, PRO ACTIV has prescribed **maintenance tasks to be carried out by the rehabilitation specialist dealer or PRO ACTIV** for safe operation of the product and to minimise the risk to the user or third-parties.

The initial inspection is performed after running 200 kilometres or 5 months after delivery (whichever comes first). The maintenance schedule can be found in the inspection lists in chapter 33.

Subsequent inspections are then always performed after 1,000 kilometres running or a period of 1 year after the last inspection (whichever comes first). The maintenance schedule can be found in the inspection lists in chapter 33.

After extreme stresses, such as during holidays where the product was exposed to sand, sea water or snow, an additional deep clean and inspection by your rehabilitation specialist dealer is recommended.

To maintain the warranty validity, the performance of the maintenance tasks must be documented. Any faults identified during maintenance work must be rectified and documented as such before further use of the product.

Even if your product does not show any signs of wear, damage or malfunctions, the regular safety-related checks on your product must be carried out in accordance with the maintenance schedule.



### 25.3 Proof of maintenance

To provide proof of the maintenance, you can use the inspection lists in Chapter 33. In any event, keep all receipts/service reports as a means of proof, and get any service work which has not been carried out by the manufacturer documented. **Please bring these usage instructions / the present service booklet to every maintenance session.**

## 26 Disposal and recycling

At the end of the service life, the product can be disposed of by PRO ACTIV or your rehabilitation specialist dealer in a proper, environmentally-friendly manner.

The disposal or recycling must be carried out by a waste disposal company or a municipal waste disposal centre.

Special guidelines may apply on-location with regard to the disposal or recycling. These must be clarified and considered when disposing (this may also include the cleaning or disinfection of the product before the disposal). In addition, the special provisions of the local regulations regarding the disposal of the drive system and the rechargeable batteries must be observed.

In the following text, you will find a description of the materials for the disposal and recycling of the product and its packaging:

**Aluminium:** Frame, rim

**Steel:** Fastening points, screws, nuts

**Plastic:** Handles, tyres, bags for packing, rechargeable battery housing

**Copper:** Cable and electrical components in the drive system

**Lithium:** Rechargeable battery

**Cardboard/paper:** Packaging



According to the WEEE Directive, electric and electronic devices must be disposed of in government-designated recycling facilities separate from general residual waste. Proper disposal serves to prevent possible environmental and health damage. These guidelines are applicable only to devices that are installed or operated in the EU. Regulations may differ outside of the European Union.

## 27 Re-use

If your product has been provided to you by your funding provider and you no longer require it, you should report this fact to your health insurance company or your rehabilitation specialist dealer. Your product can then be simply and economically re-used.

Prior to each re-use, a technical safety check must be performed on the product at PRO ACTIV or the rehabilitation specialist dealer. In addition to the instructions contained in chapter 24 (Cleaning and care), a thorough cleaning of the grips, all control elements as well as the rechargeable battery housing must be carried out prior to re-use.

Before the product can be reused, it must be prepared with care. A disinfection agent that is suitable for medical products must be sprayed onto all surfaces that the user may come into contact with. A liquid, alcohol-based disinfectant for residue-free, quick disinfection (e.g. Exporit 4712) must be used for this, and the respective usage instructions of the disinfectant must be observed.

These preparations will be performed by PRO ACTIV or the rehabilitation specialist dealer as part of the technical safety check. This safety-related check **must** be initiated by the funding provider.

Moreover, in event of wear or due to adaptation to the new user, components can be adjusted or replaced using the modular system.

## 28 Warranty


PRO ACTIV guarantees that the product was free of any defects at the time it was handed over. This warranty expires 24 months after the product was delivered.

Further information can be found in PRO ACTIV's general terms and conditions at [www.proactiv-gmbh.com](http://www.proactiv-gmbh.com).

With regard to the warranty and guarantee for the drive system, please refer to the usage instructions of the drive manufacturer.

The warranty shall be null and void if the product or a part needs to be repaired or replaced due to the following reasons:

- Normal wear on components such as rechargeable batteries, grips, tyres, brakes, etc.
- The product has not been maintained and serviced in accordance with the maintenance schedule laid down by PRO ACTIV.
- The product or a part of the product has been damaged due to neglect, accident, or improper use.
- The product has been commissioned and used in non-compliance with these usage instructions.
- Repairs or other work have been carried out by non-authorized persons.
- Third-party parts have been installed or connected to the product or the product was otherwise modified.

 Any modifications to the product which have not been expressly approved by PRO ACTIV will invalidate the warranty. Such modifications can lead to unforeseeable safety risks and are therefore not permitted.

## 29 Liability

As the manufacturer of the product, PRO ACTIV is not responsible for its safety if:

- The product is handled improperly.
- The product is not maintained in accordance with the maintenance schedule laid down by PRO ACTIV.
- The product is commissioned and used in non-compliance with these usage instructions.
- Repairs or other work are carried out by non-authorized persons.
- Third-party parts have been installed or connected to the product or the product has otherwise been modified.
- Changes are made to the software.

Further information can be found in PRO ACTIV's general terms and conditions at [www.proactiv-gmbh.com](http://www.proactiv-gmbh.com).

### 30 Appendix: Tightening torques and securing details

The following table shows the torques for shaft screws with a metric control thread (valid providing the drawing, assembly, or usage instructions do not state different values!):

| Dimension | Tightening torque Ma in Nm depending on the screw strength |   |
|-----------|--|---|
|           | Strength 8.8<br>(e.g. cylinder head screw)                 | Strength 10.9<br>(e.g. oval head screw) |
| M4        | 2.1  | 3.1                                     |
| M5        | 4.2  | 6.1                                     |
| M6        | 7.3  | 11                                      |
| M8        | 17   | 26                                      |
| M10       | 34   | 51                                      |
| M12       | 59   | 87                                      |
| M10 x 1   | 36   | 53                                      |

Securing details: All screws on PRO ACTIV products should be secured with thread lock fluid "medium strength" (e.g. Weicon AN302-43), where there are no securing clamps on the screw connections present or there is a lubrication requirement with grease or copper paste.

In the following table you will find tools and care products for your PRO ACTIV product:

| Tool  | Order number |
|---|--------------|
| <b>Care kit for PRO ACTIV wheelchairs and handbikes</b><br>Assembly paste (dosing spray 10 g), Neoval oil (spray 100 ml),<br>Thread lock fluid, medium strength (Pen-System 10 ml),<br>Surface cleaner (spray 150 ml), terminal grease (tube 50 ml) | 8000 900 026 |

**31 Appendix: Medical product passport/record of training**

**Product specifications:**

Serial number: SN \_\_\_\_\_ Key number/s: \_\_\_\_\_

**Customer data:**

Surname, forename: \_\_\_\_\_  
 Street: \_\_\_\_\_  
 Postcode, city: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Paying organisation: \_\_\_\_\_

**Training carried out by:**

- Rehabilitation specialist dealer**
  
- PRO ACTIV Field Representative/ Product adviser**

\_\_\_\_\_

Stamp / Date / Rehabilitation specialist dealer's signature

**Record of training**

I was/we were instructed in accordance with the associated hand-over certificate about the operation of the product listed and informed about possible operator errors. I was/we were also advised about situations where the assistance of another person is required. The usage instructions were handed to me/us.

**Instructor**  
 Name, date, signature \_\_\_\_\_

**1. Person being trained**  
 Name, date, signature \_\_\_\_\_

**2. Person being trained**  
 Name, date, signature \_\_\_\_\_

**3. Person being trained**  
 Name, date, signature \_\_\_\_\_

For minors, or persons who are not responsible for their actions, legal guardians/supervisors/responsible persons are to be trained in the use. This is confirmed by their signature. The data are recorded in the feedback system of PRO ACTIV Reha-Technik GmbH as the manufacturer of the above named product. It is managed in accordance with § 16 BDSG (German Data Protection Law).

## 32 Appendix: Hand-over certificate

### 32.1 Required compliance criteria to authorise use

| Topics   | Completed/<br>fulfilled | Remarks |
|--|-------------------------|---------|
| The product is suitable for the customer based on their own judgement and the customer information received regarding the disability-related restrictions.   |                         |         |
| The use intended by the customer is fully consistent with the intended use as described in the usage instructions (see Chapter "Purpose and indication").  |                         |         |
| The product's equipment is suitable to allow the customer safe use with maximum reduction of risks.  |                         |         |
| The customer was informed about the current /applicable regulations in accordance with the road traffic regulations.   |                         |         |
| The customer's driving ability was checked during a test drive in difficult driving situations and found to be appropriate (see the check list on the following page).   |                         |         |
| The user, according to their own statements, or those of the legal representative or guardian and the assessment of the person providing the training, is able to meet the requirements of public traffic in full and to act accordingly. This ability to act, which is the basis for reducing the risk for the user and other road users to an acceptable level, is also completely achievable taking current illnesses/disabilities into full account. |                         |         |
| The customer was informed that in the event of a change in the driving capability, further use of the product must be assessed by a medical professional.  |                         |         |
| The usage instructions - and explicitly all of the warning and safety instructions contained therein - were discussed during the training in detail and understood by the user. The user was then handed these operating instructions.   |                         |         |

The use of the product is only permitted when all topics listed in "Required compliance criteria for those permitted to use" have been met by the user and all the points have been ticked off in the "Check list for training the user".

**32.2 Check list for training the user**

| Topics   | Completed/<br>fulfilled |
|--|-------------------------|
| Advised of the applicable legal regulations when driving on public roads.  |                         |
| All mechanical function control elements were explained and their function demonstrated.   |                         |
| Adaptation of the adapter to the wheelchair and removing the adapter from the wheelchair have been demonstrated and then performed by the user themselves and/or an assistant.   |                         |
| Adaptation and uncoupling the product to/from the wheelchair have been demonstrated and then performed by the user themselves and/or an assistant.   |                         |
| Adaptation of the wheelbase extension on the wheelchair – if available – was demonstrated and then performed by the user themselves and/or their assistant.  |                         |
| Repositioning the wheelchair drive wheels from the standard position in the wheelbase extension sockets – if fitted – has been demonstrated and then performed by the user themselves and/or an assistant.   |                         |
| Functioning of the parking stand has been demonstrated and then tested by the user themselves and/or an assistant.   |                         |
| Operation and basic settings on the display have been demonstrated and then tested by the user themselves and/or an assistant.   |                         |
| The starting/pushing aid – if fitted – has been demonstrated and then performed by the user themselves and /or an assistant.   |                         |
| Operation of the drive system and the reaction of the drive system to the various settings has been demonstrated and then performed by the user themselves and/or an assistant.  |                         |
| Removal and insertion of the rechargeable batteries (both sides in case of the double rechargeable battery bracket) as well as operation of the change-over device have been demonstrated and then performed by the user themselves and/or an assistant.   |                         |
| Handling and charging the rechargeable batteries as well as the charger functions have been demonstrated and then performed by the user themselves and/or an assistant. The instructions about charging the rechargeable batteries during a prolonged period of non-use/storage of the product are important here. |                         |
| Use of the parking brake and the service brakes has been demonstrated and then performed by the user themselves and/or an assistant.   |                         |
| The operation and function of the gearshift has been demonstrated and then performed by the user themselves and/or an assistant.   |                         |
| The operation and function of the bell - if fitted - has been demonstrated and then performed by the user themselves and/or an assistant.  |                         |
| The operation of the lights – if fitted – has been demonstrated and then performed by the user themselves and/or an assistant.   |                         |
| Attaching and removing the luggage rack – if available – was demonstrated and then tested by the user themselves and/or their assistant.   |                         |
| Test drive: Forward and - if necessary - backwards travel  |                         |
| Test drive: Driving on level ground and uphill and downhill in the direction of travel   |                         |
| Test drive: Emergency stop from maximum speed  |                         |
| Information for care, cleaning and maintenance of the product has been provided and understood by the user and/or an assistant.  |                         |
| Information on the wheel with regard to inflation pressure and tread depth has been provided and understood by the user and/or an assistant.   |                         |
| Information on regular checks of the brakes has been provided and understood by the user and/or an assistant.  |                         |
| Information on checking the gears including cables and lines and the maintenance of the chain has been provided and understood by the user and /or an assistant.   |                         |
| The content of the usage instructions from PRO ACTIV and the other component manufacturers (if available) were completely worked through based on the product training and were understood by the user and/or the assistant.   |                         |

### 33 Appendix: Inspection lists

**Initial inspection:** After 200 km or after 5 months

| Serial number: <b>SN</b> _____<br>Kilometre reading: _____  | OK/<br>carried out       | not OK                   | resolved                 |
|---|--------------------------|--------------------------|--------------------------|
| Check that all screws/fastening elements are firmly seated, check and adjust the eccentric clamp lever on the bottom bracket support  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of all lights (if fitted), steering and adaptation to the product and the adapted wheelchair/wheelchairs  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the adapter  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the brakes and, where necessary, replace the brake fluid, brake pads, brake cables, and tyres on the product and wheelchair                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the electrical connections  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check, adjust / set, clean and oil the gear components, check the chain tension, check the chain sliding blocks for wear  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the spoke tension of the drive wheel and, if required, correct the tension/recentering and inspect the axle nuts of the drive wheel for firm seating (tightening torque for Shimano: 40 Nm) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

OK / carried out = OK | not OK = not OK | resolved = the fault was corrected

**Comments:**

**Rehabilitation specialist dealer:**

\_\_\_\_\_

\_\_\_\_\_

**First name and last name of contact:**

\_\_\_\_\_

**Stamp:**

\_\_\_\_\_

Date/signature

To maintain the warranty, the completed inspection list must be sent by e-mail or post to PRO ACTIV within four weeks of the inspection.

**Subsequent inspection:** After another 1,000 km or 1 year after the last inspection or after heavy use

| Serial number: <b>SN</b> _____<br>Kilometre reading: _____   | OK /<br>carried out      | not OK                   | resolved                 |
|--|--------------------------|--------------------------|--------------------------|
| Check that all screws/fastening elements are firmly seated and replace, if necessary (particularly the following: M8x35 oval head screws for the handle rotation axes on the cranks), check and adjust the eccentric clamp lever on the bottom bracket support | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Clean and oil/grease all pivot points and bearings   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a visual inspection of the frame and attachments for crack formations, deformations, etc.  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the brakes and, where necessary, replace the brake fluid, brake pads, brake cables  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check, adjust, clean and oil the gear components, check the chain deflector guide on the luggage rack (if present), check the chain tension, check the chain sliding blocks for wear   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the electrical connections and the performance of the rechargeable batteries   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check of the control parameters and functionality of the drive system; perform a software update if necessary  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the spoke tension of the drive wheel and, if required, correct the tension/recentering and inspect the axle nuts of the drive wheel for firm seating (tightening torque for Shimano: 40 Nm)  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the drive wheel and, if required, replace the tyre on the product   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of all lights (if fitted), steering and adaptation on the product and the adapted wheelchair/wheelchairs   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the adapter   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Test drive/functional test   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

OK / carried out = OK | not OK = not OK | resolved = the fault was corrected

**Comments:**

---

**Rehabilitation specialist dealer:**

---

**First name and last name of contact:**

---

**Stamp:**

---

Date/signature

To maintain the warranty, the completed inspection list must be sent by e-mail or post to PRO ACTIV within four weeks of the inspection.



**Subsequent inspection:** After another 1,000 km or 1 year after the last inspection or after heavy use

| Serial number: <b>SN</b> _____<br>Kilometre reading: _____   | OK /<br>carried out      | not OK                   | resolved                 |
|--|--------------------------|--------------------------|--------------------------|
| Check that all screws/fastening elements are firmly seated and replace, if necessary (particularly the following: M8x35 oval head screws for the handle rotation axes on the cranks), check and adjust the eccentric clamp lever on the bottom bracket support | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Clean and oil/grease all pivot points and bearings   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a visual inspection of the frame and attachments for crack formations, deformations, etc.  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the brakes and, where necessary, replace the brake fluid, brake pads, brake cables  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check, adjust, clean and oil the gear components, check the chain deflector guide on the luggage rack (if present), check the chain tension, check the chain sliding blocks for wear   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the electrical connections and the performance of the rechargeable batteries   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check of the control parameters and functionality of the drive system; perform a software update if necessary  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the spoke tension of the drive wheel and, if required, correct the tension/recentering and inspect the axle nuts of the drive wheel for firm seating (tightening torque for Shimano: 40 Nm)  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the drive wheel and, if required, replace the tyre on the product   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of all lights (if fitted), steering and adaptation on the product and the adapted wheelchair/wheelchairs   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the adapter   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Test drive/functional test   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

OK / carried out = OK | not OK = not OK | resolved = the fault was corrected

**Comments:**

---

**Rehabilitation specialist dealer:**

---

**First name and last name of contact:**

---

**Stamp:**

---

Date/signature

To maintain the warranty, the completed inspection list must be sent by e-mail or post to PRO ACTIV within four weeks of the inspection.

**Subsequent inspection:** After another 1,000 km or 1 year after the last inspection or after heavy use

| Serial number: <b>SN</b> _____<br>Kilometre reading: _____   | OK /<br>carried out      | not OK                   | resolved                 |
|--|--------------------------|--------------------------|--------------------------|
| Check that all screws/fastening elements are firmly seated and replace, if necessary (particularly the following: M8x35 oval head screws for the handle rotation axes on the cranks), check and adjust the eccentric clamp lever on the bottom bracket support | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Clean and oil/grease all pivot points and bearings   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a visual inspection of the frame and attachments for crack formations, deformations, etc.  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the brakes and, where necessary, replace the brake fluid, brake pads, brake cables  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check, adjust, clean and oil the gear components, check the chain deflector guide on the luggage rack (if present), check the chain tension, check the chain sliding blocks for wear   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the electrical connections and the performance of the rechargeable batteries   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check of the control parameters and functionality of the drive system; perform a software update if necessary  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the spoke tension of the drive wheel and, if required, correct the tension/recentering and inspect the axle nuts of the drive wheel for firm seating (tightening torque for Shimano: 40 Nm)  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the drive wheel and, if required, replace the tyre on the product   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of all lights (if fitted), steering and adaptation on the product and the adapted wheelchair/wheelchairs   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the adapter   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Test drive/functional test   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

OK / carried out = OK | not OK = not OK | resolved = the fault was corrected

**Comments:**

---

**Rehabilitation specialist dealer:**

---

**First name and last name of contact:**

---

**Stamp:**

---

Date/signature

To maintain the warranty, the completed inspection list must be sent by e-mail or post to PRO ACTIV within four weeks of the inspection.

**Subsequent inspection:** After another 1,000 km or 1 year after the last inspection or after heavy use

| Serial number: <b>SN</b> _____<br>Kilometre reading: _____   | OK /<br>carried out      | not OK                   | resolved                 |
|--|--------------------------|--------------------------|--------------------------|
| Check that all screws/fastening elements are firmly seated and replace, if necessary (particularly the following: M8x35 oval head screws for the handle rotation axes on the cranks), check and adjust the eccentric clamp lever on the bottom bracket support | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Clean and oil/grease all pivot points and bearings   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a visual inspection of the frame and attachments for crack formations, deformations, etc.  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the brakes and, where necessary, replace the brake fluid, brake pads, brake cables  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check, adjust, clean and oil the gear components, check the chain deflector guide on the luggage rack (if present), check the chain tension, check the chain sliding blocks for wear   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the electrical connections and the performance of the rechargeable batteries   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check of the control parameters and functionality of the drive system; perform a software update if necessary  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the spoke tension of the drive wheel and, if required, correct the tension/recentering and inspect the axle nuts of the drive wheel for firm seating (tightening torque for Shimano: 40 Nm)  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the drive wheel and, if required, replace the tyre on the product   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of all lights (if fitted), steering and adaptation on the product and the adapted wheelchair/wheelchairs   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Carry out a functional and safety check of the adapter   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Test drive/functional test   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

OK / carried out = OK | not OK = not OK | resolved = the fault was corrected

**Comments:**

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**Rehabilitation specialist dealer:**

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**First name and last name of contact:**

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**Stamp:**

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Date/signature

To maintain the warranty, the completed inspection list must be sent by e-mail or post to PRO ACTIV within four weeks of the inspection.

**Subsequent inspection:** After another 1,000 km or 1 year after the last inspection or after heavy use

| Serial number: <b>SN</b> _____<br>Kilometre reading: _____   | OK /<br>carried out      | not OK                   | resolved                 |
|--|--------------------------|--------------------------|--------------------------|
| Check that all screws/fastening elements are firmly seated and replace, if necessary (particularly the following: M8x35 oval head screws for the handle rotation axes on the cranks), check and adjust the eccentric clamp lever on the bottom bracket support | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Clean and oil/grease all pivot points and bearings   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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| Check of the control parameters and functionality of the drive system; perform a software update if necessary  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the spoke tension of the drive wheel and, if required, correct the tension/recentering and inspect the axle nuts of the drive wheel for firm seating (tightening torque for Shimano: 40 Nm)  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Your rehabilitation specialist dealer:

**PRO**  **ACTIV**<sup>®</sup>



**PRO ACTIV Reha-Technik GmbH**

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