



PRO  **ACTIV**[®]
REHA - TECHNIK





Operating instructions

Service booklet

NJ1 Adaptive bike

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1 Preface

Dear Customer,

Congratulations on purchasing your new PRO ACTIV product. You have bought a quality product which has been especially 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.

Throughout these operating instructions, the operation of standard components is explained. If you have individual solutions or non-standard components on your product, your dealer or we at PRO ACTIV would be happy to deal with any questions you may have about handling it.

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

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



Manufacturer



Warnings and safety instructions



Serial number



Additional information



Assembly instructions for the dealer (see table of contents)

3 CE Declaration of Conformity / other information

3.1 Classification

The NJ1 adaptive bike (referred to as a "product" below) is classified as a class I product.

3.2 Declaration of Conformity

PRO ACTIV Reha-Technik GmbH declares in the context of an individual declaration of conformity that the respective product has been developed and manufactured according to the relevant provisions of EC Directive 93/42/EEC 2007.

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



PRO ACTIV Reha-Technik GmbH

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4 Scope of delivery


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


The delivery includes the product configured in accordance with the order, with operating 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 e.g., lighting and clip-on fender.


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


The product is tested to ensure it is completely functional prior to shipping. If your product has been damaged during transit, please contact your dealer or PRO ACTIV immediately.

5 Introduction

 Before starting your journey for the first time, familiarise yourself with these operating instructions paying particular attention to the safety information and hazard warnings contained within them.

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

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

 Never leave the product unattended.

6 Product description / purpose

The product is attached to a manual wheelchair as a mechanically propelled drive unit which supports the wheelchair user in being mobile. It is easier to cover longer distances with ergonomic movement processes using one's own wheelchair. This expands the activity radius. Through the product's larger drive wheel (compared with the caster wheels of the wheelchair) and the wheelchair's steering wheels which are raised from the ground uneven routes and barriers can overcome more easily and without danger. The downhill speed can be regulated via the product's braking systems, so that downhill slopes can be travelled on safely.

For safety reasons, the product may only be operated by persons who

- have been trained in its use by the dealer or PRO ACTIV.
- can move and control their hands and arms so that they are able to operate the controls and perform the full steering movement without restrictions while driving.

- are physically and mentally capable of safely operating the device in all operating situations and can meet the legal requirements for use on public roads.

7 Acceptable usage and operating conditions / places of use

Observe the instructions on permitted operating conditions in the operating instructions for your wheelchair which the product has been adapted to.

Use the product on paved surfaces. Avoid driving on unpaved or loose surfaces (e.g. on loose gravel, in sand, mud, snow, ice or through deep puddles of water), as this may result in incalculable risks.

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

The maximum permitted load of the product in its standard design is 120 kg towed capacity and 10 kg payload. Individual customisation can be made to accommodate a higher load; this will be indicated on the ratings plate. Please ensure that the load limit indicated on the ratings plate is not exceeded when transporting objects.


 We recommend: The wheelchair can be equipped with a anti-roll back device and that this is activated before driving on slopes. The anti-roll back device can also be used if a wheelbase extension is used on the wheelchair.



Figure 1: Anti-roll back device

i We recommend: The wheelchair should be equipped with a wheelbase extension. Before driving with the traction system, the wheelchair wheels should then be positioned in the wheelbase extension. This allows a more optimised 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 2: Removable wheelbase extension

8 Technical specifications

8.1 Product weight

The total weight starts from 8.3 kg with the basic equipment.

8.2 Load weight

Maximum load weight:

120 kg towing capacity and 10 kg payload

8.3 Obstacle height and turning circle

Maximum drive-over / negotiable obstacle

height: 10 cm (must be ensured through an appropriate adapter assembly / setting, steering wheels must be removed (→ recommended equipment of the wheelchair: steering forks with quick-release axle))

Turning circle:

- approx. 3.5 m without manoeuvring back and forth
- approx. 2.3 m with manoeuvring back and forth (much dependent on the number of manoeuvres)

8.4 Basic equipment & dimensions

In the basic equipment, the product comprises a drive unit with docking plate, handles with switching brake fittings, chain shift or hub gears shift, rim brake including handbrake locking mechanism and hydraulic disc brakes or back-pedal brake.

Dimensions, NJ1 adaptive bike:

Product height: approx. 75-110 cm (depending on the wheel size and length of the bottom bracket support)

Product width: approx. 45-55 cm (depending on the grip width, parking stand in passive position)

Grip width: 40-50 cm

Crank length: 155-195 cm

8.5 Service life


The service life of the product is 6 years in accordance with the medical products law.

9 Rating plate

The rating plate is located on the pedal bearing. The rating plate includes the precise model, the serial number and other technical specifications.

When contacting your 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.

The rating plate includes the following data:

| | |
|--|---|
|  PRO ACTIV Reha-Technik GmbH Im Hofstätt 11 72359 Dotternhausen Germany Tel. +49 (0) 7427 9480-0 www.proactiv-gmbh.de | Modell XX model |
| | SN XX serial number |
| | Baujahr MM/JJJJ year of manufacture |
| | max. Zuladung XX kg max load |
| | max. Anhängelast XX kg max towed capacity |



Manufacturer



CE marking



Operating instruction present for the product



Serial number

10 Commissioning

The product will be handed over to you ready for use by a PRO ACTIV 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 operating instructions included in delivery. If you wish (recommended by PRO ACTIV), you will be presented with a record of training and a hand-over certificate as written evidence and in addition the operating instructions and any other accessories for your own use. The form for the record of training and the hand-over certificate can be found in chapters 29 and 30.

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 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 the flat.

11 Hand-over

The hand-over must be done by your dealer or a field representative or by a product consultant from PRO ACTIV. During the hand-over, the record of training (chapter 29) and the hand-over certificate including the associated check list (chapter 30) must be filled in. The dealer should send a copy of the completed documents to PRO ACTIV for filing either as a scanned file via e-mail, by fax or in the post. These documents are available as pdf files which can be completed in the download area at www.proactiv-gmbh.com under the link "more documents >>".

12 Safety instructions – prior to driving / use



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



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 operating 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 (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 dealer or PRO ACTIV.

⚠ Check tyre pressures at regular intervals. Ensure that you comply with the manufacturer's specifications which can be found on the tyres. Tyre pressure which is too low affects handling and has a negative effect on the braking action (for wheelchairs).

⚠ Before starting your trip check that the product's brake functions. 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 dealer or PRO ACTIV.

⚠ Always ensure that your feet cannot slip off the feet plate of the wheelchair when using the product, if necessary by using a special fixation device.

⚠ If present, 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 journey and must not be covered by other objects. Especially trips that take place in the dark or in the twilight, the lighting must be functional and visible. For longer trips in the dark, we recommend that you also take along extra batteries.

⚠ 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. A alternative to this is a pump spray that fills your tyre with a foam that hardens in the tyre.

13 Safety instructions – while driving / using

⚠ Always hold onto the crank handles with both hands while driving. If the driving situation requires you to take one hand off the crank handles, this is only permitted when the speed has been reduced to the minimum possible beforehand.

⚠ Increase the speed slowly up to the desired speed.

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

⚠ When waiting at potential hazard areas (e.g. while waiting at a pedestrian crossing, on hills or slopes or at ramps of any type), always hold down the service brakes.

⚠ When driving round a bend, reduce your speed to a minimum.

⚠ Do not ride parallel to slopes 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.


⚠ 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 prevent safe operation of the product while driving.


⚠ When driving on areas which are used for pedestrians, observe the maximum permitted speed (walking speed 6 km/h) and keep a


sufficient distance (at least the width of a wheelchair) from the kerbs or other obstacles and other road users.


 When driving on public roads and footpaths, the provisions of the road traffic regulations (German StVO) 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., large gravel, potholes) there is an increased risk of puncturing your tyres as well as tipping.


 If you encounter new driving situations which are unknown to you, approach them with great care. If you consider that the risk is too high, you must immediately abort the driving manoeuvre and, if required, call for help to assist you in extracting yourself from this situation.


 You must not make telephone calls while driving.


 Operating 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 operating instructions "Adapter & adaptation").


 When driving, never jerk the handlebars to the left or the right, as this may cause the wheelchair-product combination to tip over sideways in certain circumstances.


 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.


 Only brake the product using the service brakes.


 During long trips the brakes of the product may heat up. Therefore, do not touch the brakes during or immediately after the trip (e.g. when detaching or loading the product).

 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.


 The product is only designed to be used to transport persons with limited mobility and must not be used for any other purpose, e.g. by playing children or to transport goods.


 If the weight load on the drive wheel falls (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 caught up 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

 Driving on steps with the product is forbidden.

 Obstacles like curbs, for example, should always be negotiated driving forwards and always using the minimum speed required.

 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 operating 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 falling 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. If you drive at them on an angle, or only have one rear wheel on the obstacle, there is an increased risk of tipping over to the side which can result in serious injuries to the user and third-parties as well as damage to the product and the wheelchair.


15 Safety instructions regarding dangerous locations and dangerous situations


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


The personal driving skills are particularly important in the following dangerous locations which are provided as examples; the product's 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 which are covered in leaves, snow or ice.
- ramps and lifting equipment on vehicles.

 When driving in a circle 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. Always perform these driving manoeuvres with increased caution and only at slow speed. If required, the driving manoeuvre must not be performed or only with the help of an assistant.

 When crossing main roads, intersections and level crossings, extreme caution is needed. 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.


 When driving on ramps and lifting equipment on vehicles, extreme caution is needed. During the lifting or lowering operation of a ramp or the lifting equipment, the service brake should be operated. This prevents rolling away.

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

16 Adapter & adaptation

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

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

 The product may only be adapted and detached on dry, stable and flat surfaces.

17 Functional elements

17.1 Parking stand

17.1.1 Active and passive positions

By pressing down and turning the operating lever, the parking stand positions can be changed from the active to the passive position, or vice versa.



Figure 3: Press down and turn the operating lever



Figure 4: Parking stand in the active position



Figure 5: Parking stand in the passive position

17.1.2 Parking stand height adjustment

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

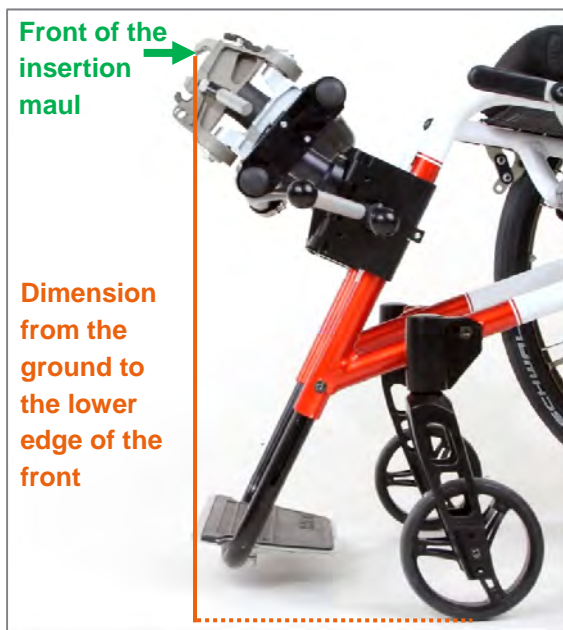


Figure 6: Measurement from the ground to the lower edge of the front of the insertion maul

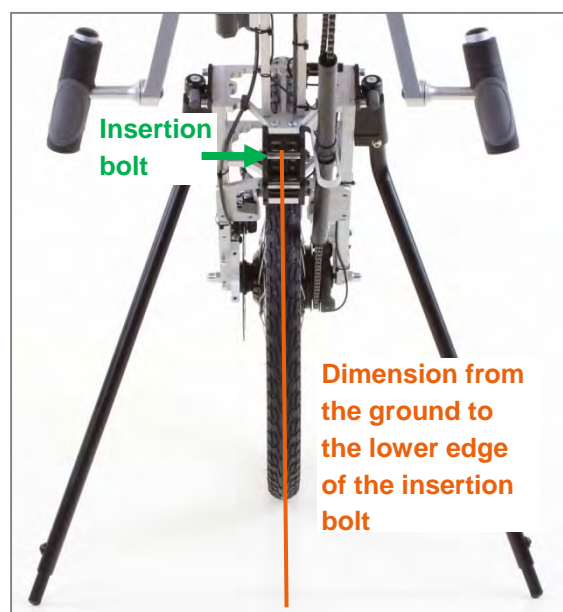


Figure 7: Dimension from the ground to the lower edge of the insertion bolt



Figure 8: Position of the product and wheelchair with the parking stand height adjustment set correctly

The **height adjustment of the parking stand** is carried out by undoing the M6 oval head screw (AF 4 mm) and adjusting the position of the adjustment inlet along the specified row of holes in the parking stand and inlet. Finally, tighten the oval head screw up to 7 Nm of torque.



Figure 9: M6 oval head screw and adjustment inlet to adjust the height of the parking stand

For parking stands with the **option "Manoeuvring rollers"**, the adjustment unit is completely pushed in to the adjustment inlet (as described in the previous section). The height adjustment is carried out by pushing the manoeuvring rollers along the parking stand. In order to be able to move the manoeuvring rollers, both M6 clamp screws (AF 5 mm) must be loosened. After adjusting the height, the M6 clamp screws (AF 5 mm) are tightened to 7 Nm and secured with thread lock fluid.



Figure 10: M6 clamp screws in the manoeuvring rollers



Figure 11: Elbows are not completely straight, upper body is in an upright position

17.2 Pedal bearing support & crank

17.2.1 Seating position

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

With weak core musculature, the seating position should normally be chosen so that the upper body remains still in an upright position when operating the crank while driving. This is particularly important if you have low seating stability due to missing or weak core musculature. A rocking motion (forwards and backwards) of the upper body or the head should be avoided where possible. The height of the pedal bearing in this case is selected to be slightly higher (chest height or higher).

Sporty drivers with the appropriate trunk stability relieve their arm musculature by moving their trunk at the same time. The height of the pedal bearing in this case can be selected to be slightly lower (chest height or lower).

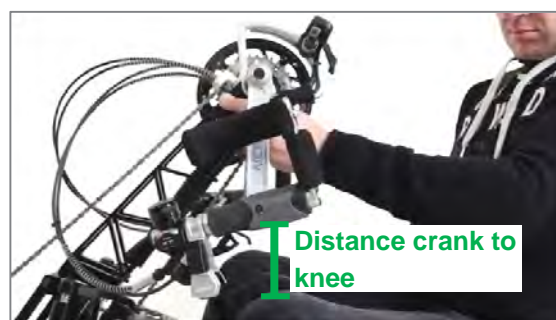


Figure 12: Distance between the crank and the thigh / knee

- ⚠ 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 musculature. The selection of the suitable system must be made in conjunction with your doctor or therapist and / or defined and implemented by your dealer. There are various systems available such as chest straps or four-point safety belts. Also, the dealer can frequently individually make a system or adapt one that has been purchased.

17.2.2 Pedal bearing position

In a product equipped with a **non-adjustable pedal bearing support**, a subsequent adjustment of the pedal bearing position can only be achieved by exchanging the pedal bearing support, the angle adjustment possible on the steering head as well as the length adjustment and the spacing of the adapter tube on the adaptation points on the wheelchair frame (see operating instructions "Adapter & adaptation").

The pedal bearing support can be exchanged by loosening the four M6 fastening screws (AF 5 mm) on the top fork bridge and the four M6 fastening screws (AF 4 mm) on the pedal bearing housing. Then the new pedal bearing support with another length can be inserted and the 8 fastening screws tightened up to 7 Nm and secured with thread lock fluid. Finally, check the chain length and the cable lengths and adjust them if necessary.



Figure 13: M6 fastening screws on the top fork bridge

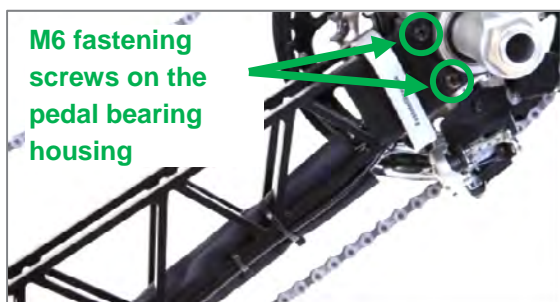


Figure 14: M6 fastening screws on the pedal bearing housing

If your product is fitted with an **adjustable pedal bearing support (optional)**, the pedal bearing position can be adjusted in angle and height:

- The angle adjustment is done at the top fork bridge. To do this, loosen the four M6 clamp screws (AF 5 mm), on the clamp slightly so that the pedal bearing support's angle can be adjusted using minimal force. The angle adjustment is continuous (as a guide, there is a 12° scale fitted). When you have finished adjusting the angle, tighten up the four M6 clamp screws (AF 5 mm) to 7 Nm torque and secure them with thread lock fluid.
- To adjust the height, two M6 clamp screws (AF 5 mm) must be loosened on the pedal bearing housing. Then the pedal bearing housing can be moved along the pedal bearing support to the desired position. Then tighten up the four M6 clamp screws (AF 5 mm) to 7 Nm torque and secure them with thread lock fluid.

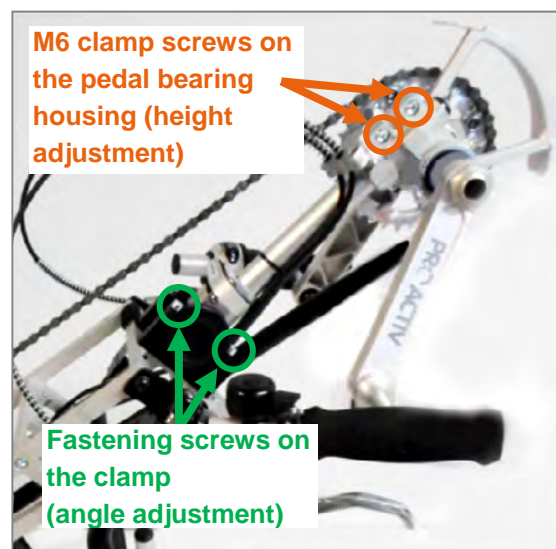



Figure 15: M6 clamp screws for angle and height adjustment of the pedal bearing position

If you want to make a change to the pedal bearing position, please contact your dealer or PRO-CTIV.

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

17.2.3 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 pedal bearing shafts and spacers between the crank handles and the rotary axes of the hand grips are available to adjust the **grip width**.

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

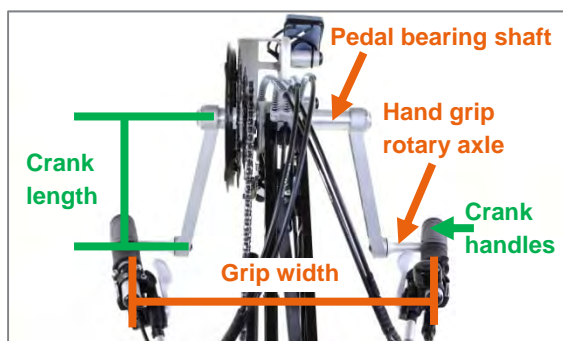


Figure 16: Crank length and grip width

17.3 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 17: Correct grip hold

The cables for the Rohloff hub drive are an exception for this. If the handles are held correctly they point forwards into the direction of travel.



Figure 18: Correct hold of the handle for the Rohloff hub drive

17.4 Gear shift

17.4.1 Chain shift

For the chain shift, shifting procedures can only occur 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 controls for the gear change are normally designed so that they can be operated using **thumb / index finger switching fittings** or with a chin control (based on the thumb / index finger switching fittings). With the 9-speed cassette at the bottom, switching to the next largest sprocket means a lower or easier gear, and to the next smallest sprocket to a larger or more difficult gear. For the 3-speed chain wheels at the top, the behaviour is exactly the opposite.

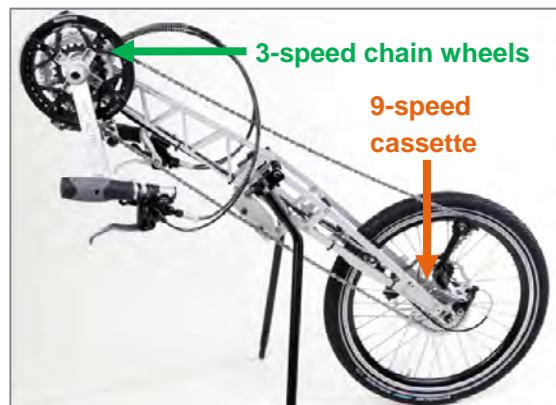


Figure 19: 9-speed cassette and 3-speed chain wheels

With the thumb / index finger switching fittings, gear changes are achieved by:

- "Thumb switch" – operation by pressing in the direction of travel with the thumb
- "Index finger switch" – operation normally by pulling in the opposite direction to travel with the index finger (alternatively can also be operated with the thumb by pressing against the direction of travel).

There is no display for the gear selected available. There is only an orientation as to which chain wheels / sprocket is currently being used via a display above the handle.

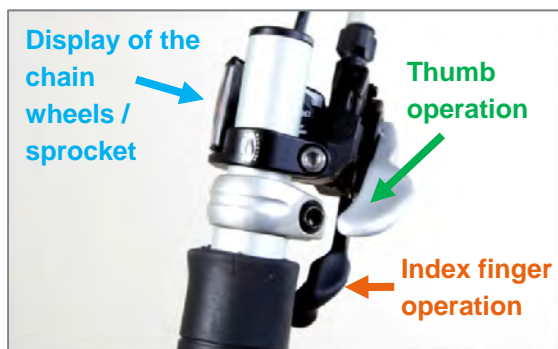


Figure 20: Operation of the thumb / index finger switching fittings

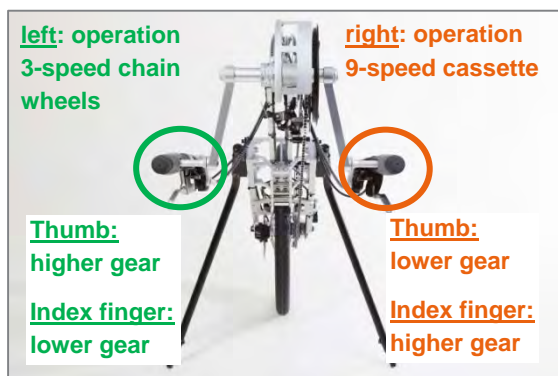


Figure 21: Switching using the thumb / index finger switching fittings

Operation of the chain shift is also possible using a **grip shift** (optional). Here, you can change between the 3-speed chain wheels by turning the left-hand twist grip. On the right-hand grip, you can change between the sprockets in the 9-speed cassette.

There is no display for the gear selected available. You can only read-off which chain wheel / sprocket is currently being used on the twist grips.

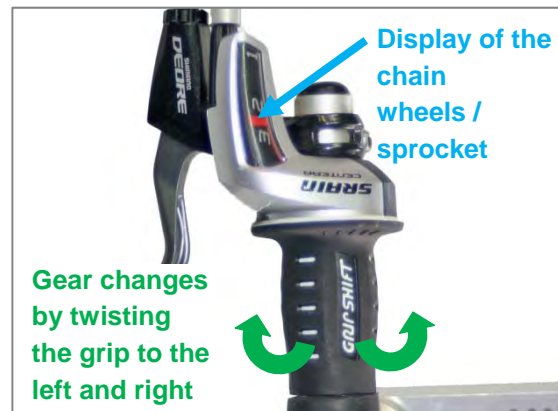


Figure 22: Shifting using the twist grip

⚠ When driving up a hill, it should be noted that it is only possible to change using the 9-speed cassette under heavy loads on the chain. Changing using the top three chain wheels is no longer possible if there is heavy tension on the chain. It is therefore important to switch to a smaller chain wheel as a precaution.

⚠ Try to avoid selecting cross gears, as the efficiency and service life of the chain will fall significantly (more information can be found in chapter 27).

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

17.4.2 Hub gears

The hub drive can be changed while driving and also when stationary. No crank movement is needed to change or only a small reduction in torque is needed while driving.

The **Rohloff** hub drive and **Shimano Nexus** hub drives are operated by **turning the grip shift**. The gear selected is shown in the display on the control panel.

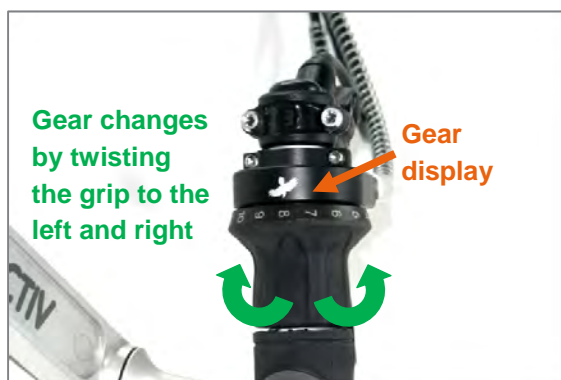


Figure 23: Shifting using the grip shift on the Rohloff Speedhub 500/14 - 14-speed hub drive



Figure 24: Shifting using the grip shift for the Shimano Nexus Inter8 hub drive

With the **Shimano Nexus Inter8** hub drives there is another operation option via the **operating machine** that enables shifting using the chin (option). To change up move the gear lever 45° up and to change down move it 45° down. After completing the gear change, the gear lever moves back to its starting position. There is no display for the gear selected available.

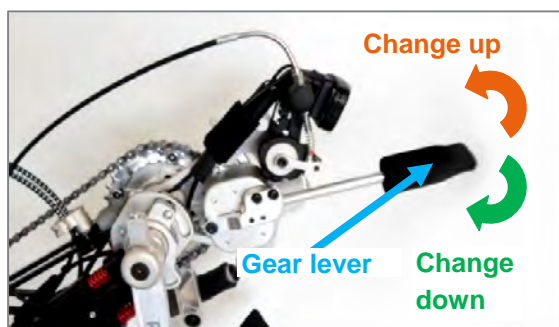


Figure 25: Shifting via the PRO ACTIV operating machine with the Shimano Nexus Inter8 hub drive

The **Shimano Alfine** hub drive is shifted via a **thumb-forefinger switch fitting**. The shifting is achieved as follows:

- "Thumb switch" – operation by pressing in the direction of travel with the thumb
- "Index finger switch" – operation normally by pulling in the opposite direction to travel with the index finger (alternatively can also be operated with the thumb by pressing against the direction of travel).

The index finger switch is operated for switching up and the thumb switch is operated for switching down. The gear selected is shown in the display above the handle.

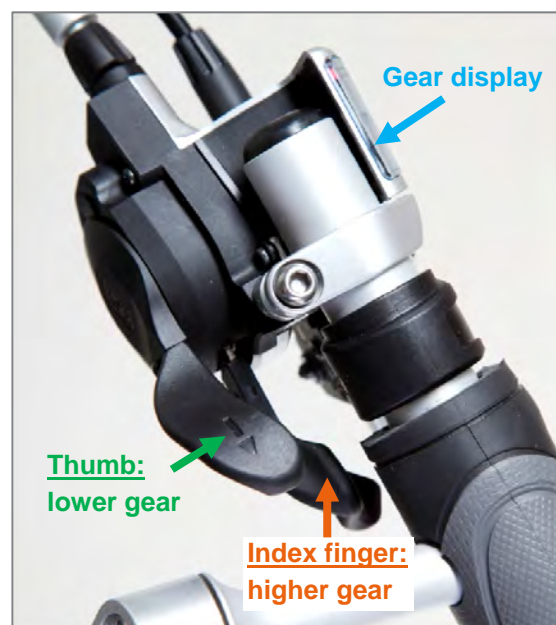


Figure 26: Shifting using the thumb-forefinger switch fitting for the Shimano Alfine 11-speed hub drive

With the electric hub drive **Shimano Alfine Di2**, two electric buttons are used for switching. Press one button to switch on. The drive switches off automatically if it is not operated after a while.

You switch up using the smaller button on the right, and switch down using the larger button on the left. The gear engaged is shown on the display.

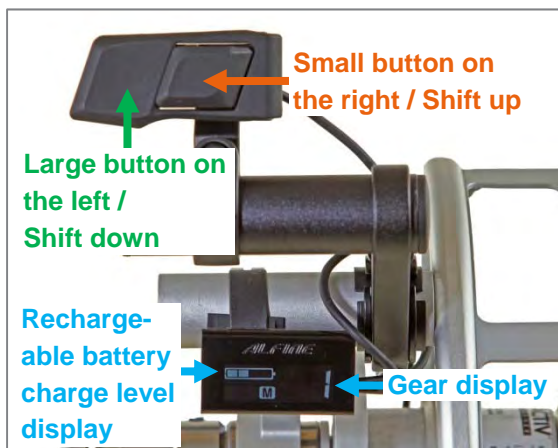


Figure 27: Switching using the electric button with Shimano Alfine Di2 hub drive

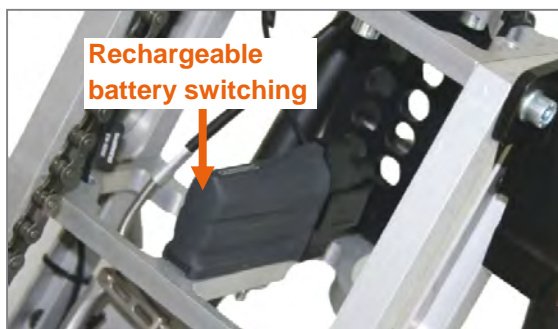


Figure 28: Rechargeable battery of the Alfine Di2 electric switching

The rechargeable battery charge level of the electric switching is also visible on the display. When the charge state is low (thus when only one rechargeable battery bar is shown), the rechargeable battery must be recharged. For this purpose, the rechargeable battery is removed as follows: the flap on the side is opened and the push button is pressed-in (figure 29). Now the rechargeable battery can be pulled out along the retaining rail and charged using the charger included in the scope of supply. During the charging procedure, an orange lamp is visible (figure 30).

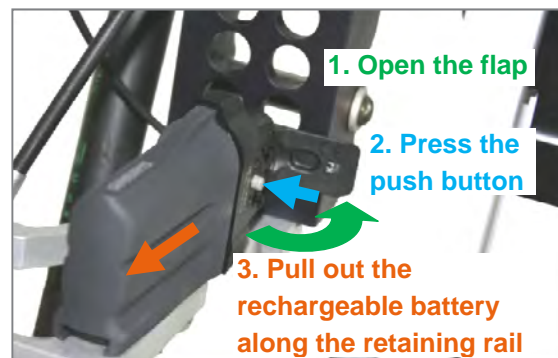


Figure 29: Remove the rechargeable battery for charging



Figure 30: Rechargeable battery and charger

The fully charged rechargeable battery (visible on the charger when the orange lamp goes out) is pushed back along the retaining rail until you can feel a slight resistance. When closing the flap on the side, the rechargeable battery is completely secured and is connected fixed. Now the gears are ready for use again.

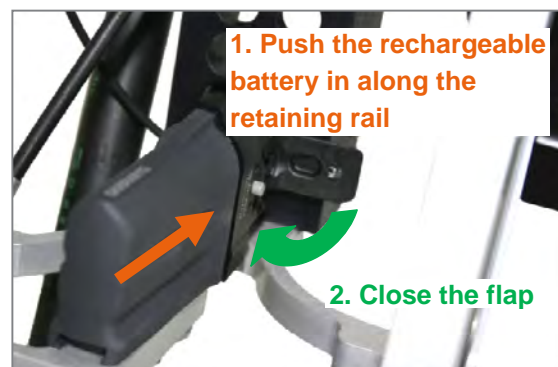


Figure 31: Reconnect the rechargeable battery after charging

For more information on hub drives, please see the instructions provided by the gear manufacturer.

17.4.3 Pedal bearing gearshift

The pedal bearing gearshift ("Mountaindrive" gear reduction for hills) is switched on by pressing the control buttons on the left and right of the pedal bearing. Here, you can choose between a 1:1 gear ratio (the left control button in the direction of travel) or a 2.5:1 gear ratio (the right control button in the direction of travel).

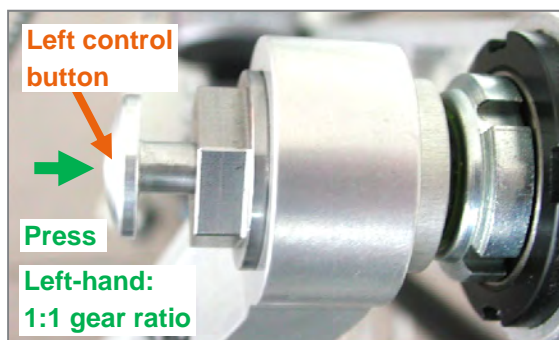


Figure 32: Left control button of the pedal bearing gearshift

The pedal bearing gearshift should be lubricated once or twice a year with the supplied original semi-fluid grease using the syringe. The semi-fluid grease is filled through the slotted screw.



Figure 33: Slotted screw to lubricate



Figure 34: Original semi-fluid grease in the syringe

For more information, please see the instructions provided by the manufacturer.

17.5 Brakes

Normally there is one disc and one rim brake fitted to the product. Where possible, both brakes should be operated simultaneously and the braking requirement reduced by driving in a way that anticipates the requirement to reduce speed if necessary.

17.5.1 Rim and disc brakes

The brakes are operated using the brake lever.



Figure 35: Brake lever

⚠ In the event of abrupt hard braking, there is a risk that you might fall forward with your upper body and thereby cause injuries to yourself.

⚠ Please make sure that the braking surfaces on the rim, the brake disks and the brake pads on the rim breaks do not come into contact with oils or greases which could otherwise impair the braking effect. If rims, brake discs or brake pads do come into contact with oils or greases, the brake pads must be replaced and the brake disc and rim must be professionally cleaned with brake cleaner (e.g., Weicon surface cleaner).

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

17.5.2 Back-pedal brake for hub drives

A back-pedal brake is already integrated into the Shimano Nexus Inter7 and 8 speed hub drives.

This brake is operated by moving the cranks against the acceleration direction. The brake force applied is adjusted by the strength of the backwards movement of the cranks.

17.5.3 Parking brake

Using the **aluminium bracket** which is attached to the pedal bearing support, 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 36: Aluminium bracket as a parking brake

As an option, the **parking brake** can be selected via the **operating handle operated**. The parking brake is implemented via the mounted rim brake. The operation of the parking brake is carried out using an operating lever on the pedal bearing support. If the operating lever is pressed to the left, the rim brake is activated. When pressed further to the left, the brake force increases even more. If the operating lever is pressed to the right, the rim brake is opened again.

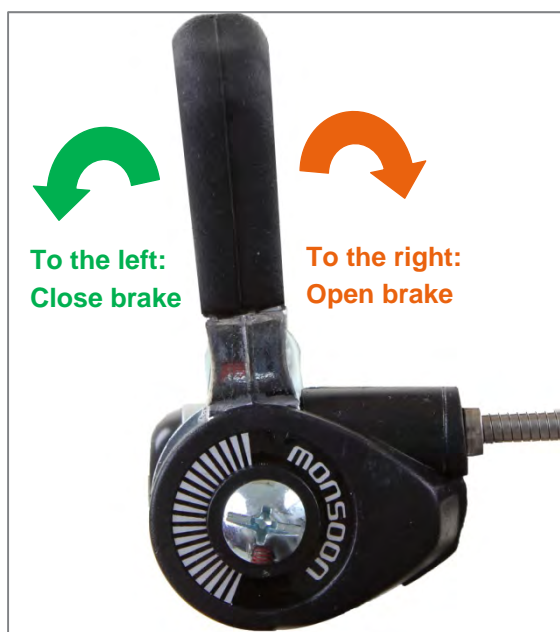


Figure 37: Parking brake can be operated from the operating lever (opened)

17.6 PRO ACTIV back-pedal brake & crank release function

17.6.1 Operation

The PRO ACTIV back-pedal brake can be used for chain gears or hub drives with a freewheel.

The PRO ACTIV back-pedal brake is a closed hydraulic system consisting of a generator unit and a disc brake calliper. The system has automatic wear compensation for the brake pads.

To adapt the system to your body weight and the physical limitations of the driver, the springs of the system are available in three strengths. These can also be replaced retrospectively. Contact your dealer immediately who will arrange the replacement of the springs by PRO ACTIV.

The back-pedal brake is delivered with a crank release function which allows reverse driving and manoeuvring via the hand rims. As: For functional reasons, the back-pedal brake always acts as soon as the product moves backwards. Therefore, the driver must first unlock the reverse movement 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 crank release function can also be selected in combination with the Shimano Nexus Inter7 and 8 hub drives (which already have back-pedal brakes) so that it is possible to reverse and manoeuvre via the handrims. The back-pedal brake is implemented here via the hub drive. In this case it must be ensured that the hub drive's back-pedal brake is not operational when the crank release function is activated. If you want to brake with the activated crank release function, this is only possible via the additional braking system such as a rim brake.



Figure 38: Generator unit PRO ACTIV back-pedal brake

17.6.2 Operation

The **brake** is operated by pushing the cranks backwards. The brake force applied is adjusted by the strength of the backwards movement of the cranks.

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-pedal brake, the right-hand pressure plate must be operated.

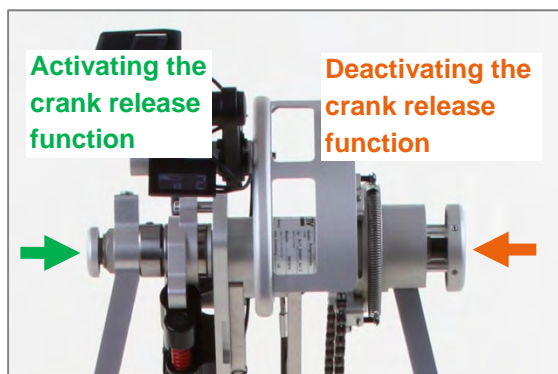


Figure 39: Left- and right-hand pressure plates

17.6.3 Safety instructions

⚠ Before every trip, perform a brake test while stationary by moving the cranks with the normal operating force in the opposite direction 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, lines, bleed screws and the surface of the transmitter unit do not leak 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. Measure the pad thickness at the thinnest point.

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

17.7 Components

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

In the download area of 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:

<http://si.shimano.com>

Magura components:

<http://www.magura.com/de/bicyclecomp/produkte/downloads.html>

Rohloff components:

<http://www.rohloff.de/de/service/download/bescreibungen/index.html>

Mountain Drive pedal bearing gear shift:

<http://www.haberstock-mobility.com/de/produkte/schlumpf-getriebe/schlumpf-mountain-drive.html>

Sigma:


<http://www.sigmasport.com>

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

18 Storage


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


For storage please also comply with the notes in other sections of these operating instructions and the component manufacturers' operating instructions included with delivery.


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

19 Transport

When loading or transporting, the product can be held on the pedal bearing support.


 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. All vehicle occupants must only sit on the seats installed in the vehicle during the journey with the associated restraint systems. Failing to observe this leads to increased risk of injury for the user as well as for third-parties.

 The product and all associated components must be secured during transport so that they are not damaged (e.g. by falling over) and do not become a hazard to persons or other products.

 When loading make sure that the cables and lines are not caught up, become kinked or otherwise damaged. The product may not be used with damaged cables and / or lines.

20 Malfunctions

In the event of any malfunctions which cannot be solved by yourself based on the operating instructions included in the scope of delivery, please contact your specialist retailer or PRO ACTIV directly.

 Malfunctions must be solved before any further use or, if they occur during the journey, this must be interrupted immediately.

21 Cleaning and care


Regular cleaning of the product is prescribed to prevent the components becoming clogged up due to dirt. Moreover, regular cleaning prevents corrosion and increased wear. 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.

For all cleaning processes, only use commercially available, household cleaning agents. Do not use any abrasive cleaning agents or aggressive, acidic cleaners, to prevent scratching or fading of the coating or the anodised parts.

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

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


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


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


22 Maintenance


22.1 General instructions


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

 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 tread: 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 and the gear components, it is imperative that the operating 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 dealer or PRO ACTIV.


Tightening torques and securing details for fastening elements as shown in the table in chapter 28 must be observed.

22.2 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).
- Check the tyres for damage, foreign bodies and any cracks that form.

- Check the cable housings are seated correctly and tightly in the gear cable holders.
- 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).

 If you should discover any problems during these checks, please immediately contact your dealer or PRO ACTIV. Service and repair work on the product may only be carried out by your 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 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 31.

Subsequent inspections are then always performed after 1,000 kilometres running or after a period of 1 year (whichever comes first). The maintenance schedule can be found in the inspection lists in chapter 31.

After extreme loads, e.g. during holidays where the product was used on sand, near sea water or in snow, it is recommended that an additional deep clean and inspection is performed by your dealer or PRO ACTIV.

To maintain the operating licence and 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.

22.3 Proof of maintenance

To provide proof of the maintenance, you can use the inspection lists in chapter 31. The inspection lists are also available as pdf files which can be filled in within the download area of www.proactiv-gmbh.com under the link "more documents >>". In any event, keep all documents / service reports as a means of proof, and get any service work which was not carried out by PRO ACTIV documented.

Please bring these operating instructions / service booklet to every service.

23 Disposal & Recycling

At the end of the service life, the product can be disposed of by PRO ACTIV or your 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 the following section, 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

Cardboard / paper: packaging

24 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 dealer. Your product can then be simply and economically re-used.

Before any re-use, a safety check must be carried out on the product by PRO ACTIV. In addition to the instructions contained in

chapter 21 (Cleaning and care), a thorough cleaning of the grips and all controls must be carried out.


Before the product can be reused, it must be prepared with care. A disinfection agent must be sprayed onto all surfaces that the user may make contact with. For this purpose, a liquid disinfection agent based on alcohol must be used for the quick residue-free disinfection (e.g., Exporit 4712). Please observe the manufacturers instructions for use for the disinfection agent that you use.

This will also be done by PRO ACTIV as part of the safety check. The safety-related check must be initiated by the funding provider.

25 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.

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

26 Liability

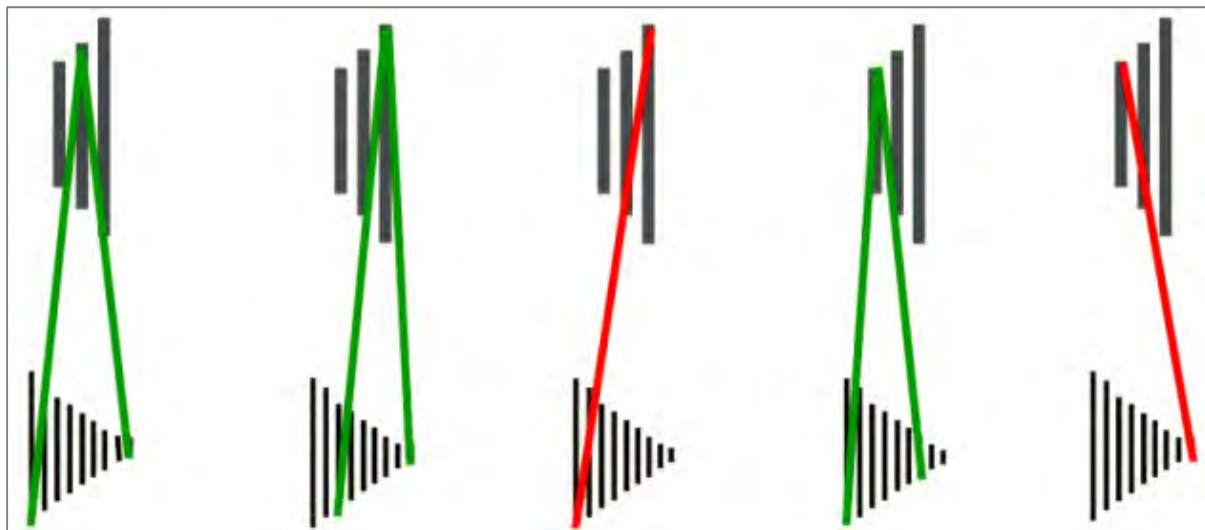
As the manufacturer of the product, PRO ACTIV is not responsible for its safety if:

- 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 contrary to the instructions in these operating instructions
- repairs or other work are carried out by non-authorised persons

- third-party parts are installed or connected to the product

Further information can be found in
PRO ACTIV's general terms and conditions at
www.proactiv-gmbh.com.

27 Appendix: Avoiding crossed gears with the chain shift



from the middle chain wheel, you can switch to all 9 sprockets

from the large chain wheel, you can switch to the small sprockets (1-7)

from the large chain wheel, you should **not** switch to the large sprockets (8+9) = **crossed gear**

from the small chain wheel, you can switch to the larger sprockets (9-3)

from the small chain wheel, you should **not** switch to the smallest sprockets (1+2) = **crossed gear**

28 Appendix: Tightening torques and securing details

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

| Dimension | Torque MA in Nm depending on how tight the screws are | |
|-----------|---|----------------|
| | Stability 8.8 | Stability 10.9 |
| 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 AN302-42), where there are no securing clamps on the screw connections present or there is a lubrication requirement with grease or copper paste.

29 Appendix: Medical product passport / record of training

Product specifications:

Serial number: **SN** _____

Customer data:

Surname, forename: _____

Street: _____

Postcode, city: _____

Phone: _____

Paying organisation: _____

Training carried out by:

☐ Medical supplies dealer☐ PRO ACTIV field
representative_____
Stamp / Date / 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 operating 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 is recorded in the feedback system of PRO ACTIV Reha-Technik GmbH, as the manufacturer of the above named product. It will be managed in accordance with Section 16 BDSG (Federal Data Protection Law).

30 Appendix: Hand-over certificate

30.1 Required compliance criteria to authorise use

| Topics | Completed / 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 operating instructions (see the Product description / intended use chapter). | | |
| The product's equipment is suitable to allow the customer safe use with maximum reduction of risks (see check list on the following page). | | |
| 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 operating 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. | | |

30.2 Check list for training the user

| Topics | Completed / fulfilled |
|--|-----------------------|
| Advised of the applicable legal regulations when driving on public roads. | |
| All mechanical function controls were explained and their function demonstrated. | |
| Adaptation of the adapter to the wheelchair and removing the adapter from the wheelchair was demonstrated and then performed by the user themselves and / or their assistant. | |
| Adaptation and uncoupling the product to / from the wheelchair was demonstrated and then performed by the user themselves and / or their assistant. | |
| Adaptation of the wheelbase extension on the wheelchair – if present – 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 – was demonstrated and then performed by the user themselves and / or their assistant. | |
| How the parking stand works was demonstrated and then performed by the user themselves and / or their assistant. | |
| Operating the parking brake was demonstrated and then performed by the user themselves and / or their assistant. | |
| Use of the service brakes was demonstrated and then performed by the user themselves and / or their assistant. | |
| The operation and function of the gears was demonstrated and then performed by the user themselves and / or their assistant. | |
| The operation of the lights – if fitted – was demonstrated and then performed by the user themselves and / or their assistant. | |
| Test drive: Forwards and, if required, backwards travel through 4 cones spaced at 1.5 m or 2 m | |
| Test drive: Driving on the level, uphill and downhill in the direction of travel | |
| Test drive: Emergency stop from high driving speed | |
| Information for care, cleaning and maintenance of the product have been provided and understood by the user and / or assistant. | |
| Information on the wheel with regard to inflation pressure and tread depth have been provided and understood by the user and / or assistant. | |
| Information on regular checks of the brakes have been provided and understood by the user and / or assistant. | |
| Information on checking the gears including cables and lines and the maintenance of the chain have been provided and understood by the user and / or assistant. | |
| The contents of the operating instructions from PRO ACTIV and the other component manufacturers were completely worked through based on the product training and were understood by the user and / or assistant. | |

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".

31 Appendix: Inspection lists

Initial inspection: After 200 km or after 5 months

| Kilometre reading: _____ | OK / carried out | not OK | resolved |
|---|--------------------------|--------------------------|--------------------------|
| Check all screws / fastening elements are firmly seated | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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"/> |
| Functional and safety check of the brakes and, where necessary, replacement of the brake fluid, brake pads, brake cables and tyres on the product and wheelchair. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check, adjust / set, clean and oil the gear components | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the spoke tension of the drive wheel and, if required, correct the tension / re-centring | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

resolved = the fault was corrected

Comments:

Stamp:

Date / Signature

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

| Kilometre reading: _____ | OK / carried out | not OK | resolved |
|--|--------------------------|--------------------------|--------------------------|
| Check all screws / fastening elements are firmly seated | <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"/> |
| Visual inspection of the frame and attachments for crack formation, deformation, etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Functional and safety check of the brakes and, where necessary, replacement of the brake fluid, brake pads, brake cables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check, adjusting, cleaning and oiling the gear components including pedal bearing gearshift (if fitted) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the spoke tension of the drive wheel and, if required, correct the tension / re-centring | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Functional and safety check of the drive wheel and, where necessary, replacement of the tyre on the product | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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"/> |
| Test drive / functional test | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

resolved = the fault was corrected

Comments:

Stamp:

Date / Signature

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

| Kilometre reading: _____ | OK / carried out | not OK | resolved |
|--|--------------------------|--------------------------|--------------------------|
| Check all screws / fastening elements are firmly seated | <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"/> |
| Visual inspection of the frame and attachments for crack formation, deformation, etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Functional and safety check of the brakes and, where necessary, replacement of the brake fluid, brake pads, brake cables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check, adjusting, cleaning and oiling the gear components including pedal bearing gearshift (if fitted) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check the spoke tension of the drive wheel and, if required, correct the tension / re-centring | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Functional and safety check of the drive wheel and, where necessary, replacement of the tyre on the product | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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"/> |
| Test drive / functional test | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

resolved = the fault was corrected

Comments:

Stamp:

Date / Signature

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

| Kilometre reading: _____ | OK / carried out | not OK | resolved |
|--|--------------------------|--------------------------|--------------------------|
| Check all screws / fastening elements are firmly seated | <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"/> |
| Visual inspection of the frame and attachments for crack formation, deformation, etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Functional and safety check of the brakes and, where necessary, replacement of the brake fluid, brake pads, brake cables | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Check, adjusting, cleaning and oiling the gear components including pedal bearing gearshift (if fitted) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments:

Stamp:

Date / Signature

Subsequent inspection: After a further 1000 km or 1 year after the last inspection or after heavy use

| Kilometre reading: _____ | OK / carried out | not OK | resolved |
|--|--------------------------|--------------------------|--------------------------|
| Check all screws / fastening elements are firmly seated | <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"/> |
| Visual inspection of the frame and attachments for crack formation, deformation, etc. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
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Comments:

Stamp:

Date / Signature

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

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Your dealer:



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