



**PROACTIV®**













# Usage instructions Service booklet








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**BUDDY**

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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

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

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



Manufacturer



Warnings and safety instructions



Serial number

## 3 Conformity/other information

### 3.1 Classification

The BUDDY wheelchairs for children and young people (referred to as a "product" below) is classified as a Class I 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 on receipt

Delivery includes the product, configured as per the purchase order, with the usage instructions including the 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 push handles, anti-tipping supports and a lap belt.

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.

Please check the product immediately upon receipt, in the presence of the freight company if possible, for any transport damage. If you are of the opinion that damage has occurred during transit, please do the following:

1. Statement of facts in the presence of the freight company – with photo documentation of the packaging and product (overview and detailed images).

2. Annotation of the damage on the delivery note when accepting the goods.
3. Submission of the photo documentation, the delivery slip and the delivery receipt with annotation of the damage to PRO ACTIV.


PRO ACTIV will then review the reported damage and coordinate the further procedure with you (e.g. shipment of spare parts, return for repair).

If these instructions are not observed, the damage cannot be claimed.


## 5 Introduction


Before starting your first journey, familiarise yourself with these usage instructions, paying particular attention to all of the safety information and hazard warnings contained in them.


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. Clarify with them as well which wheelchair techniques you can learn on the basis of your ability.


 Under no circumstances should you do anything with or in the product that you have not learned 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 and all the safety accessories available (e.g., anti-tipping supports and lap belt).


 You should always heed the advice provided by doctors, therapists and the rehabilitation specialist dealer on the necessary safety accessories.

 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.

 Never leave the product unattended.

 Secure the product against unauthorised use and theft.

 When combining your product with equipment made by other manufacturers (e.g. seat cushion, drive devices, etc.), make sure that the serviceability of the individual components and the unit made up of them is ensured. 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.

## 6 Intended purpose and indication

This product offers children and young people who have difficulty walking or cannot walk the option to replace walking with driving, using a muscle-powered wheelchair to a technically feasible extent. The objective is to maintain or increase the greatest possible independent mobility and to integrate the active wheelchair user in everyday life.

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: Some wheelchair options are unsuitable for certain disease profiles or handicaps. A suitable selection will be made by the therapist/doctor/rehabilitation specialist dealer during the consultation.

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

- can move and coordinate their hands and arms so that they are able to operate all control elements without restrictions while using the wheelchair.
- 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 wheelchair for children and young people is designed for use on level and solid surfaces indoors and outdoors. Avoid driving on unpaved or loose surfaces (e.g. on loose gravel, in sand, mud, snow, ice or through deep puddles of water, and under poor weather conditions (e.g. storms), as this may result in incalculable risks. Thanks to its special design features, the BUDDY can be adjusted in width as the child grows and, in addition to a wide range of adjustment options, the “growing feature” offers optimum adaptation to the individual needs and size of the user by simply replacing individual components.

The maximum permitted load of the product in its standard design is 100 kg. Individual customisation can be made to accommodate a higher load; this will be indicated on the ratings plate. Please note that the load limit indicated on the rating plate may not be exceeded even when transporting objects and carrying out strength exercises in the product. Note that the maximum load weight is reduced accordingly when mounting components with lower load limits on the product, e.g. drive wheels with few spokes.

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 Product weight

The total weight starts from 9.4 kg with the basic equipment.

### 8.2 Load weight

**Maximum load weight:**

Up to 100 kg payload

### 8.3 Obstacle height and turning circle

**Maximum drive-over/negotiable obstacle height:** 10 cm

**Turning circle:**

- approx. 1.3 m without manoeuvring back and forth
- approx. 1.1 m with manoeuvring back and forth (strongly dependent on the number of manoeuvres)

### 8.4 Basic equipment and dimensions

In the basic equipment, the product is equipped with seat and back system, side sections, caster wheels, drive wheels including tyres and handrims, knee lever brake and footrest.

**BUDDY dimensions:**

Seat width: 20 - 46 cm

Seat depth: 22 - 40 cm

Back height: 20 - 48 cm

Wheel camber: 1°, 2.5°, 4°, 6°, 8°, 10°

Back angle: Seat tube / back tube opening angle 70° - 95°

**Active growth with BUDDY:**

The seat width of the BUDDY can be increased to adapt to the child or young person's growing body dimensions. To widen the product, the three cross-connection tubes and the back cross bar can be telescoped in 1-cm steps according to the holes. From an original seat width of 26 cm, this adjustment range is



4 cm. A new cross tube set in 1-cm steps can be used to widen the product further. Before all widening measures, a check must be performed to determine whether exchanging components is necessary. Contact your rehabilitation specialist dealer or PRO ACTIV if you want to change the seat width.








## 8.5 Service life


The service life of the product is 6 years.

## 9 Rating plate & markings on the product

The **rating plate** is located on the frame of the product. The rating plate includes the precise 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.

		Modell ..... model
		 SN ..... serial number
		 ..... date of manufacture
		max. Zuladung .....kg max. load
		max. Anhängelast .....kg max. towed capacity
  		


 CE marking  
'European conformity'

 Medical device

 Manufacturer

 Follow the usage instructions

 Serial number

 Date of manufacture

The product is labelled with **further symbols** (stickers):



Product not approved as a seat in motor vehicles



Product approved as a seat in motor vehicles; marking of the transport restraint system connections on the wheelchair or fastening points for wheelchair restraint systems

More detailed information about this can be found in chapter 27.

## 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.

You will be fully instructed in the use of the product based on the usage instructions included in the 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 38) and the hand-over certificate including the associated check list (chapter 39) 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 & 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 and


external circumstances. 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.


Practice bending over, gripping, stretching and getting out, until you know the limits of your abilities. Allow yourself to be assisted until you know what can cause falls or tips and how to avoid it.


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.


## 12 Safety instructions – prior to driving/use


 When getting into the wheelchair, do not tread on the footrests as this may tip the chair over.


 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 about the serviceability of the product, stop using it.


 Check the tyre pressures at regular intervals. Ensure that you comply with the manufacturer's specifications which can be found on the tyres. If the tyre pressure is too low, the optimum functional capability of the knee lever brake is not guaranteed, and an excessively low tyre pressure influences the driving behaviour. Apart from that, there is an increased risk of a flat tyre.


 Before starting out, check that the product's brake works. If all existing brakes are not fully functional, no trips may be taken.


 Check the stable condition of the seat and back system at regular intervals and in case of doubt, have your rehabilitation specialist dealer assess its condition.


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


 Before using the product, ensure that the anti-tipping supports are in the operating position and are functional.


 Due to environmental effects, it is possible that the properties and therefore secure attachment of the push handle covers may change detrimentally. For this reason, it is important to check that the handles are tightly fitted and fixed in position prior to use. If this should no longer be the case, then the push handles may not be used until they have been fixed.

 Before each use of the product, make sure that the anti-tipping supports and push handles are firmly attached and the quick-release axles on the caster and drive wheels are also securely locked in place.

 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.


 If required, you can have your product equipped with a suitable chest or lap belt. Please make sure that the belt is set up so that it does not have any negative impact on breathing, does not strangle you should you fall or tip out of the product and which you can easily remove yourself.


 Make sure that the passive illumination (reflectors) are always on your product, are in perfect condition and are clearly visible.


 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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 Note that some parts of your product can become extremely hot at high ambient temperatures (e.g. sauna). 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. There are also certain risks that exist at extremely low temperatures, which must be minimised by wearing appropriately insulating clothes, for example.


 You may only drive on slopes where the product can be safely controlled with the handrims. Never drive the product on slopes of more than 10 %.


 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.


 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.


 Note that the knee lever brake and the integrated brake are parking brakes that may only be applied when the product is at a standstill. These are not service brakes that are suitable for reducing speed.


 Do not attach objects (carrier bags, etc.) to the product.


 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.


 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.


 When travelling on poorly maintained paths with potholes and loose stones, drive carefully to prevent the caster wheels from blocking.


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

 The product is only intended for transporting one person with limited mobility and must not be used for any other purpose, e.g. for transporting goods.

 When reversing, the anti-tipping supports should always be used as there is an increased risk of tipping over. If this is not possible, then ask other people to help ensure that there is no risk of tipping over.

 The product may only be propelled using the handrims. If you propel the chair with the tyres (thumbs or fingers on the tread of the tyre), there is the risk of crushing or otherwise injuring fingers and thumbs.

 Do not reach into the area of the spokes or other tight spaces in the area of the wheels. There is an increased risk of being injured here, particularly while in motion. If you have limited coordination of your limbs, then you should cover the spokes with a spoke shield, for example, to minimise the risks.

 Smoking when using the wheelchair should be forgone, as the seat and back system may be damaged due to dropping ash.

## 14 Safety instructions regarding obstacles



Driving on steps with the product is forbidden.



Due to the significantly high risk of tipping and injury, the product should only be used to negotiate escalators after participation in a corresponding safety training course and with an accompanying person for safety reasons.



The maximum obstacle height which can be negotiated is 10 cm.



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. When approaching an obstacle at an angle or driving over it with just one wheelchair wheel, there is an increased risk of tipping over sideways.



If the product with the user needs to be transported over an obstacle and there are suitable facilities such as a ramp or a lift available, then these should be used. If such facilities are not available, then the obstacle is to be overcome by being carried by two helpers. When carrying the product, it may not be lifted by the side sections, the drive wheels or the footrests. We recommend holding the product on the frame and the back cross bar to carry it.



Before crossing an obstacle (steps, thresholds, etc.), the anti-tipping supports must be swivelled from the operating to the passive position or removed so that you do not make contact with the obstacle when crossing, resulting in your falling. After crossing the obstacle, the anti-tipping supports must be immediately returned to the operating position (chapter 24).



For overcoming obstacles such as kerbs or steps, the product needs to be actively tipped. The caster wheel may otherwise jam at right angles to the obstacle and could block. This could damage the caster wheel or the caster fork and result in injury to the user. If actively tipping it is not possible, then the obstacle should not be approached or you need to request assistance from an accompanying person. Particular attention needs to be paid to this when using an auxiliary drive.

## 15 Safety instructions regarding dangerous locations and dangerous situations

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. Rails in the road or level crossings must never be crossed when travelling parallel to them, as otherwise the wheels could become caught which would result in the product being unable to manoeuvre.

 Extreme caution is needed when driving on ramps and lifting equipment on vehicles. Ensure in advance that the ramp is wide enough so that you do not risk the product wheels slipping off the ramp. When lifting or lowering a ramp or lifting equipment, the parking brake of the product should be applied. 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 Safety instructions – after driving/use

 Apply the parking brake before getting out of the product.

 When getting out of the wheelchair, do not tread on the footrest due to the risk of tipping over.

## 17 Individual setting options

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

### 17.1 Adapting the seat height at the back

The product is equipped with a wheel plate, which enables seat height adjustment.

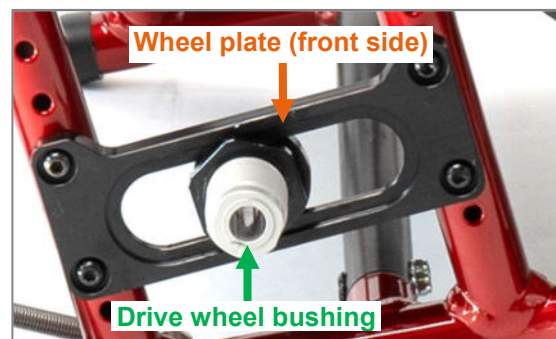


Figure 1: Wheel plate for rear seat height adjustment (view from outer side of product, drive wheel removed)

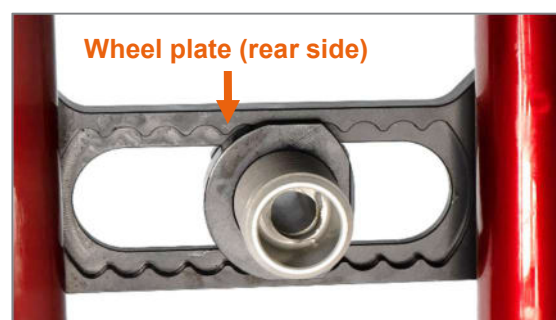


Figure 2: Wheel plate for rear seat height adjustment (view from product interior)

In order to adjust the seat height at the rear, first remove the drive wheels via the quick release axles (see chapter 21.1), so that you have direct access to the wheel plates. Now, there are the following options.

#### 17.1.1 Turning the wheel plate by 180°

The wheel plate slot is worked eccentrically, so that by turning the wheel plate by 180°, a **reduction of the seat height by approx. 1 cm** is achieved.



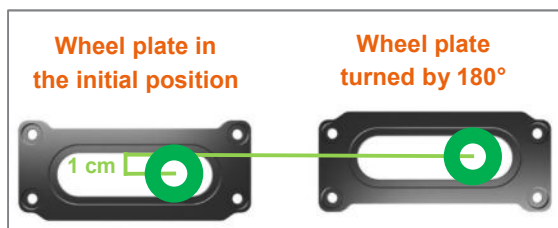


Figure 3: Changing the seat height at the rear by rotating the wheel plate by 180°.



Figure 4: M6 fixing screws on the wheel plate (view from outer side of product, drive wheel removed)



Figure 5: Wheel plate with camber wedge (view from product exterior)

1. Remove the wheel plates on both sides by releasing each of the four M6 fixing screws (AF 4 mm) that are screwed in the inlets on the inside of the tube. Please note that, after releasing both screws, the inlets fall down on the same side in the tube or fall out of the holes of the lower frame tube.
2. Then turn the wheel plate by 180° and position it behind the same frame holes as before. Ensure that you mount the track spacers and the camber wedges (between the frame and the wheel plate, see Fig. 5) exactly as they were installed ex-factory

upon delivery (they must not be rotated with the wheel plate).

3. Now reattach the M6 fixing screws (AF 4 mm) and tighten them to 11 Nm. Ensure that the washers are reinstalled on each screw. The inlets, which have a M5 thread hole on the bottom, can be positioned in the tube using a threaded rod. Where appropriate, the inlets are installed on a 6° bracket with thread holes. Each of them are marked with a one-sided drop (Fig. 6), which must face outward during installation. Ensure that the direction is correct.

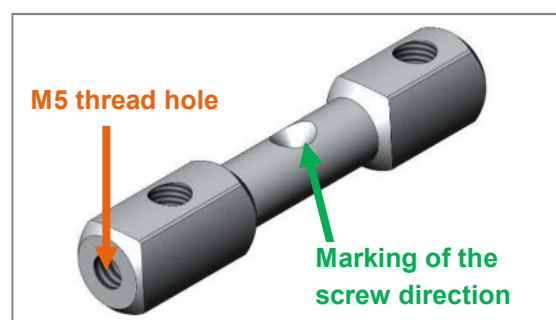


Figure 6: 6° Wheel plate inlet with thread hole and one-sided drop

4. Afterwards, the drive wheel bushing is rotated and positioned in the wheel plate slot in a way that properly sets the drive camber and the tipping point. Observe the instructions in chapter 17.3.

#### 17.1.2 Mounting the wheel plate in the other frame holes

- If the wheel plate is mounted in the initial position in the lowermost frame holes, the rear seat height can be **decreased by 2 cm** via installation in a frame hole.
- If the wheel plate is mounted in the initial position in the uppermost frame holes, the rear seat height can be **increased by 2 cm** by mounting it in a frame hole.

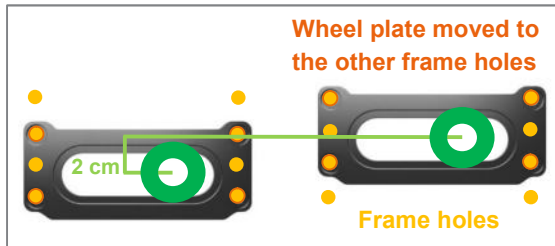


Figure 7: Changing the seat height at the rear by moving the wheel plate in the frame holes

To remove and attach the wheel plates, refer to the information in chapter 17.1.1. When reattaching the wheel plates, use the other frame holes.

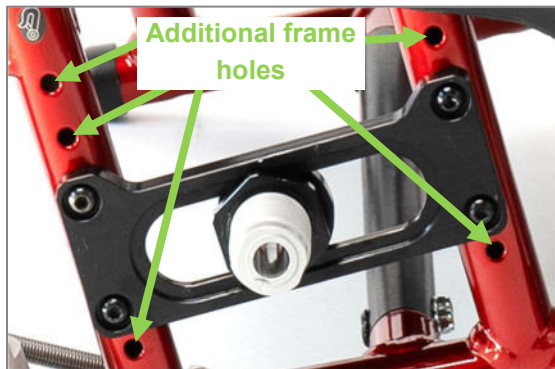


Figure 8: Frame holes (view from outer side of product, drive wheel removed)

### 17.1.3 Summary

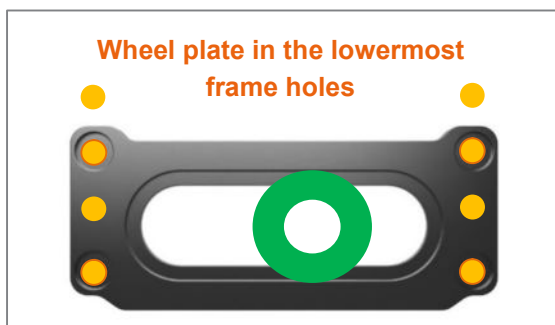


Figure 9: Example of initial position for adjustment

For the seat height adjustment, as in the initial position shown in the previous figure, the following steps can be taken:

**1 cm reduction of the rear seat height:** Rotate the wheel plate by 180°

**2 cm reduction of the rear seat height:** Move the wheel plate one frame hole up

**3 cm reduction of the rear seat height:** Move the wheel plate one frame hole up & rotate the wheel plate by 180°

**4 cm reduction of the rear seat height:** Move the wheel plate two frame holes up

**5 cm reduction of the rear seat height:** Move the wheel plate two frame holes up & rotate the wheel plate by 180°

**6 cm reduction of the rear seat height:** Move the wheel plate three frame holes up

If the wheel plate is initially mounted in the uppermost frame holes, the seat height can also be raised.

### 17.1.4 General instructions

When changing the rear seat height each time:

- the brakes must be readjusted (see chapter 25).
- the caster wheel axles must be readjusted (see chapter 22.4).
- the backrest angle may have to be repositioned (see chapter 18.1).
- make sure that there is sufficient ground clearance under the footrest. Experience shows that this should not be less than 4 cm (see chapter 23).

## 17.2 Adjusting the seat height at the front / angle of seat

If the seat height has to be adjusted, the angle of the seat or the front seat height can be adjusted. This setting is carried out via the position of the caster wheels in the caster wheel fork and the caster fork size.

### 17.2.1 Adapting by positioning the caster wheels in the caster fork

Adjusting the front seat height or angle of seat can be carried out via the positioning of the caster wheel in the caster fork. Generally, the caster forks have three possible positions that can be used to change the front seat height in steps of 15 mm.



- If the seat inclination or the front seat height are to be increased, the caster wheel is mounted in a lower position in the caster fork.
- If the seat inclination or the front seat height are to be reduced, the caster wheel is mounted in a higher position in the caster fork.

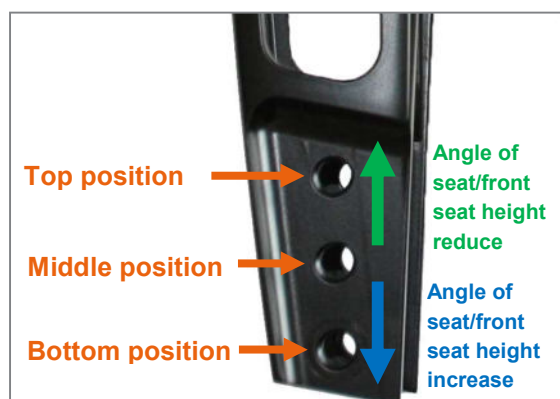


Figure 10: Three positions in the caster fork for positioning the caster wheel and its effect on the front seat height

The instructions for disassembly and assembly of the caster wheels can be found in chapter 22.1.

### 17.2.2 Adaptation by replacing the caster fork

If the adjustment range of the existing caster fork is insufficient, the next larger or smaller one can be used.

In doing so, the bottom position of the fork size 1 is equivalent to the top position of fork size 2 and the bottom position of fork size 2 to the top position of fork size 3.



Figure 11: Caster fork sizes with marking of the same seat height settings with different caster fork sizes

The instructions for replacing the caster forks can be found in chapter 22.3.

### 17.2.3 General instructions

When changing the angle of seat or front seat height each time:

- the caster wheel axles must be readjusted (see chapter 22.4).
- the backrest angle may have to be repositioned (see chapter 18.1).
- make sure that there is sufficient ground clearance under the footrest. Experience shows that this should not be less than 4 cm (see chapter 23).

## 17.3 Adjusting the tipping point

**Optimum product tipping behaviour** is achieved when the axle mount of the drive wheels is close to the body centre of gravity. A product adjusted like this can be driven with little effort and it also makes it possible to manage a slightly uneven surface or edges by tipping slightly. Driving on both drive wheels (doing a wheelie) is relatively easy to learn. Inexperienced wheelchair users must be prevented from tipping over backwards by means

of anti-tipping supports. In any case, the setting should be made to suit the wheelchair user's individual requirements and abilities to ensure safe operation.

**Setting the tipping point** is carried out by changing the positioning of the drive wheel bushings in the wheel plates.

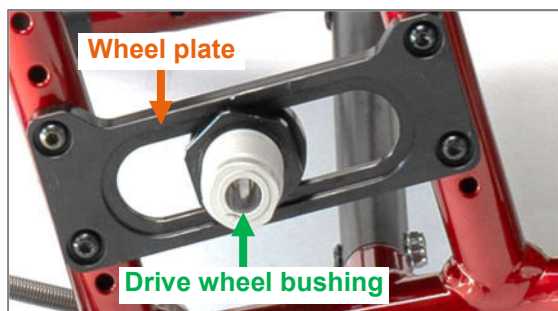


Figure 12: Wheel plate and drive wheel bushing (view from outer side of product, drive wheel removed)

To adjust the tipping position, first remove the drive wheels via the quick release axles (see chapter 21.1), so that you have direct access to the wheel plates. Then proceed as follows:

1. Loosen the outer fastening nuts (AF 36 mm) on both sides.

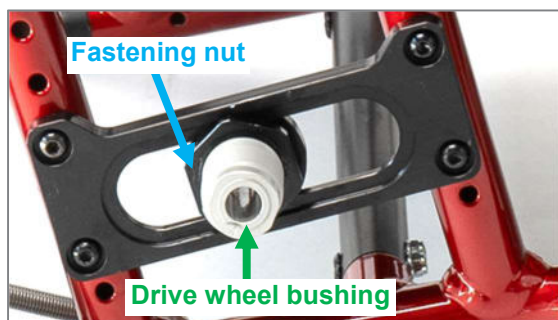


Figure 13: Fastening nut and drive wheel bushing (view from outer side of product, drive wheel removed)

2. Now connect the drive wheel bushings along the slots in the wheel plates to the desired tipping point position so that the front of the sliders are positioned in the wheel plates' wave-like grooves. Make sure that the two drive wheel bushings on the right and left are in exactly the same

tipping point position. The grooves on the rear are for orientation purposes.

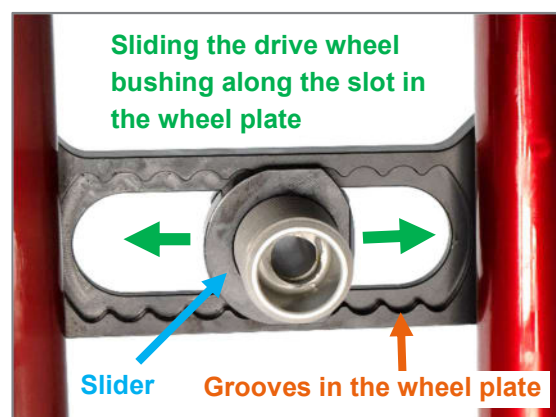



Figure 14: Sliding the drive wheel bushing along the slot in the wheel plate (view from product interior)


3. Then tighten the outer fastening nuts (AF 36 mm) on the right and left to 48 Nm.

### 17.3.1 General instructions


After each change to the tipping point:

- the caster wheel axles must be readjusted (see chapter 22.4).
- the brakes must be readjusted (see chapter 25).

 Extreme settings such as drive wheels mounted far to the front are only permitted for experienced wheelchair users who are able to actively shift their weight forwards during operation.


 To minimise the risk of tipping backwards, we recommend using anti-tipping supports, even with anti-tipping settings.

## 18 Back system

 Avoid falling into the seat/seating plate and backrest upholstery/back shell as it significantly increases the risk of a misalignment, falling over, or defects.

## 18.1 Backrest angle

### 18.1.1 Adjustment options with backrests firmly bolted to side sections

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

With backrests bolted firmly to the side sections, there are no options for flexible backrest angle adjustment without tools.

However, permanent adjustment of the backrest forwards or backwards in 5° increments is possible using tools. To do this, there are holes in the rear area of the side section at the top and an elongated hole at the bottom to position the backrest tubes. To adjust the backrest forwards or backwards, loosen both M5 fixing screws (AF 3 mm) with washers on each side and position the fixing screws with washers in the desired holes of the side section at the top and bottom in the corresponding position in the elongated hole (same position on the right and left). Then tighten up the M5 fixing screws (AF 3 mm) again to 6 Nm and secure them with thread lock fluid.

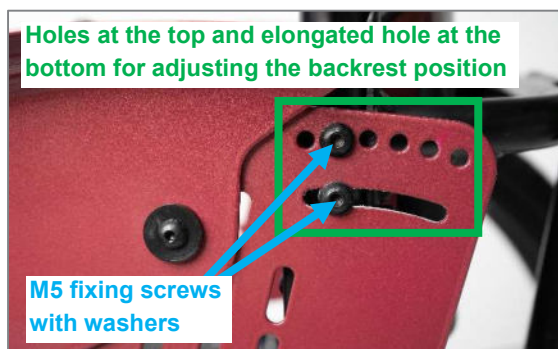



Figure 15: Adjusting the backrest position using holes in the side section

### 18.1.2 Adjustment possibilities with an adjustable backrest

If equipped with an adjustable and foldable backrest, the backrest angle can be flexibly adjusted without using tools and the backrest can be completely folded away. The angle of the backrest can be fixed in 7 positions in 5° steps.

 Observe that the centre of gravity is shifted further to the rear by the enlargement of the angle between the backrest and the seat system and thus, the tipping point of the product is reached much sooner.

### 18.1.3 Instructions for sitting posture with an adjustable backrest

For a good sitting posture, we recommend positioning the backrest vertical to the ground, where possible.

With low backrests with adaptable belt cover due to a disability, it may be advantageous to slightly tilt the backrest forwards and to slacken the top belt of the backrest upholstery so that the slack in the upper area is greater in order to achieve good sitting stability under certain circumstances (see chapter 18.2).

The adjustment possibility of the backrest angle supports active sitting and ensures for flexibility of the wheelchair user. An example in the following:

- If the angle of the seat has been changed (see chapter 17.2), the angle of the backrest can be respectively readjusted.
- When driving on slopes and when transporting baggage (e.g. backpacks) on the backrest, the centre of gravity shifts more to the rear and the risk of tipping increases. Then this can be counteracted by a respective angle adjustment of the backrest to the front.
- For comfortable seating, the backrest can be locked in a position to the rear so that the backrest is tilted slightly back.

### 18.1.4 Adjusting the backrest angle or folding down the backrest with an adjustable backrest

To **adjust the backrest angle**, relieve it (otherwise there is a risk of tipping) and then loosen the locking pins that engage in the locking holes of the side sections on the left and right. For this purpose, grasp under the seat cover

and in the middle, pull the cord to the front that is linked to the locking pin.

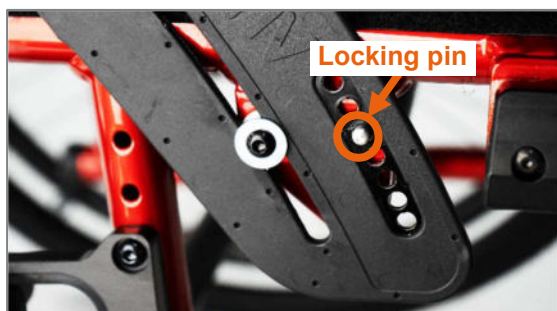


Figure 16: Locking pin engages in the locking hole in the side section (view from outer side of product, without clothing guard)




Figure 17: Cord for operating the locking pin and thus for adjusting the angle of the backrest

If you have released both locking pins by pulling on the cord, you can adjust the backrest as desired and re-engage it by letting go of the cord. In doing so, before applying load again, make sure that both locking pins have engaged safely into the desired locking holes (the same position on the right and left).

A stop pin may be mounted in the backrest angle **adjustment range** as a limiter.



Figure 18: Stop pin (view from outer side of product)

 Depending on the adjustment of the backrest angle, check the tight engagement of the backrest via the locking pins.

To **fold down the backrest**, pull on the middle of the cord towards the front, and at the same time, fold the backrest downwards until it rests on the seating area. If you want to return the backrest to the desired angle, proceed as described at the beginning of backrest angle adjustment.



**Video:** Adjustment of the backrest angle & folding

## 18.2 Adjustable back & its adjustment options

The "adjustable back and back padding" back system consists of a belt system and back padding. The slack or sagging of the backrest can be adjusted to individual needs with the help of Velcro fasteners.

This system can "grow" alongside a change in seat width in certain areas. For questions relating to this, contact your rehabilitation specialist dealer or PRO ACTIV if you want to change the seat width.

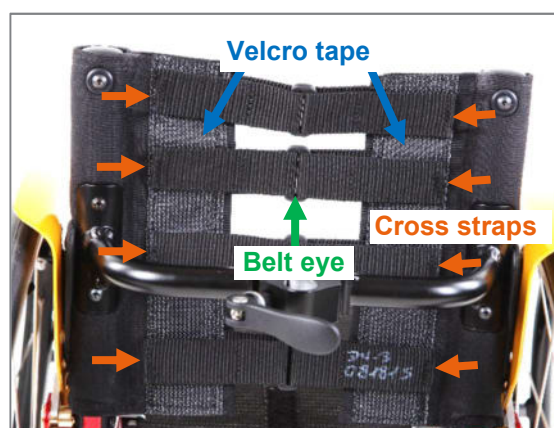


Figure 19: Adjusting the slack using cross straps

To **adjust the slack**, first remove the overlaid back padding and then adjust the cross straps as desired with the belt eye, using the Velcro-fleece system. Ensure that the belt eye is as



centrally located as possible after adjustment. Finally, reattach the back padding.

If a belt is accidentally unthreaded during adjustment, proceed as follows when **threading the belt through**: The cross strap is passed through the belt eye and then attached to the Velcro on the same side where the cross strap is sewn on.

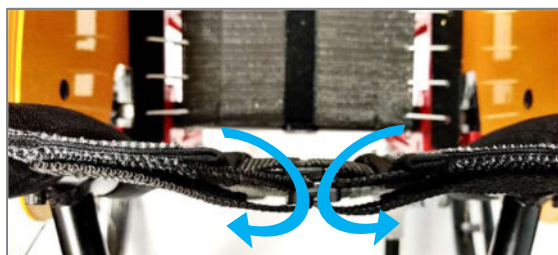


Figure 20: Threading direction of the cross straps through the belt eye

### 18.3 Ergonomic back shell & its setting options

The "ergonomic back shell" back system consists of an aluminium shell, Velcro cross-straps and if applicable, back padding.

**Slack** is already integrated into the back shell due to its shape. It cannot be adjusted.

However, **lumbar support** can be adjusted individually using the Velcro cross-straps. For this purpose, the back padding is removed over the Velcro straps. The cross-straps can now be tensioned according to the individual requirements by releasing and refastening the Velcro strap system.



Figure 21: Ergonomic back shell (view from behind)

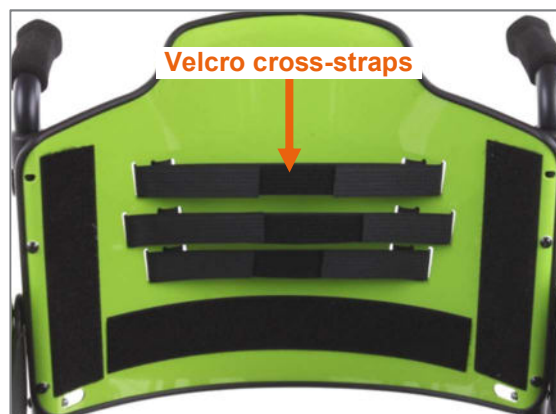


Figure 22: Ergonomic back shell without back padding with Velcro cross-straps (view from the front)

Then mount the back padding using the Velcro straps.


### 18.4 Ergo Back backrest bar and its adjustment possibilities

The back system "Ergo Back backrest bracket" normally consists of a backrest bracket (with or without lumbar curvature) and depending on the selection, an adjustable back shell including customised back padding. The adjustment options of the **back shell** are described in chapter 18.3.



Figure 23: Ergo Back backrest bracket with back shell (viewed from the side)

## 19 Seat system

 Avoid falling into the seat/seating plate and backrest upholstery/back shell as it significantly increases the risk of a misalignment, falling over, or defects.

The seat system usually consists of either sprung Body Contour seat cover or a seat plate.

With a seating system from **Body Contour seat cover**, there is no adjustment option. The Body Contour seat cover has a springing effect and when seating, automatically forms a slack.



Figure 24: Body Contour seat cover

The **aluminium seat plate** offers no adjustment options. It is often used as the base for designing individual, anatomically shaped seat systems.



Figure 25: Aluminium seat plate

### Note:

Using a seat cushion on the seat system is mandatory. At cold temperatures, the seat cushion prevents lower abdomens from under-cooling and protects against dirt and wetness. Moreover, the cushion ensures uniform pressure distribution for your bottom and absorbs impacts as well as vibrations.

## 20 Clothing guard

### 20.1 Aluminium clothing guard removable via lock function

#### 20.1.1 Overview of terms



Figure 26: Back jointed shaft

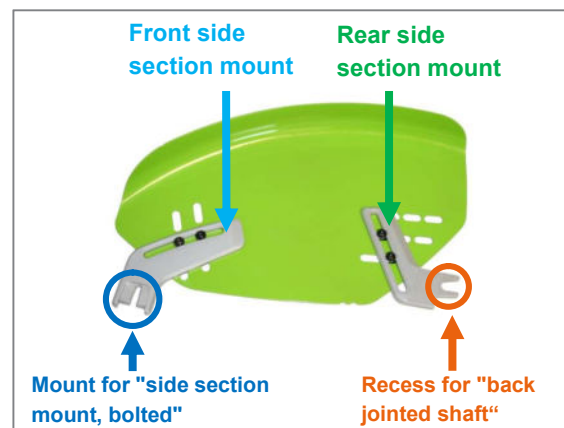


Figure 27: Clothing guard removed from product



Figure 28: Clothing guard mounted on product (view without drive wheel)



Figure 29: "Side section mount, bolted" (view without clothing guard)

### 20.1.2 Removal and attachment of the clothing guard

To **remove the clothing guard**, it is first pulled from the "side section mount, bolted" at the front and then from the back joint shaft at the rear.



Figure 30: Clothing guard pulled from the "side section mount, bolted" at the front (view without drive wheel)

To **attach the clothing guard**, this is first mounted on the back jointed shaft with the rear side section mount and then the front side section mount is inserted in the "side section mount, bolted".

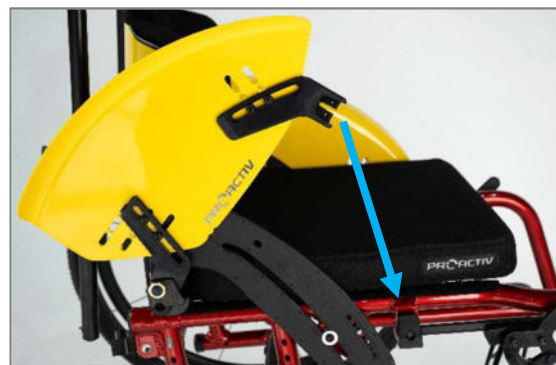


Figure 31: Rear side section mount mounted on back joint shaft (view without drive wheel)

### 20.1.3 Adjusting the clothing guard position



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

After adjusting the drive wheel position or installing different tyres on the drive wheels, it may be necessary to adjust the position of the clothing guard on the wheel arch. The distance between the tyres and the clothing guard should be between 5 and 8 mm to avoid pinching your fingers, scraping the tyres on the clothing guard, and obstruction when grasping the handrim.

To adjust the clothing guard position, loosen the four M5 fixing screws (AF 3 mm) from the clothing guard mount on each of the clothing protection guards.

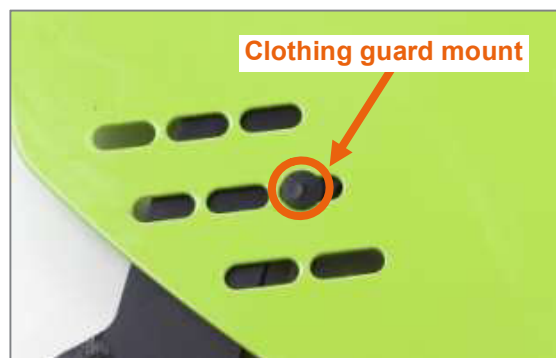


Figure 32: Clothing guard mount



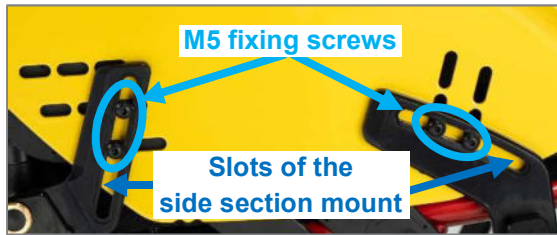


Figure 33: M5 fixing screws and slots in the side section mount


Now the front and back side section mounts can be positioned along the slots in the clothing protection guard and the side section mounts. Ensure that the side section mounts can be smoothly inserted back onto the back jointed shaft and into the side section mounts.

Finally the clothing guard mounts are positioned accordingly and the M5 fixing screws (AF 3 mm) are screwed back into the clothing guard mounts with 6 Nm.



Figure 34: Slots of the clothing guard

#### 20.1.4 Adjusting the force required for removing and installing

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

To make the removal and installation of the clothing guard easier or more difficult, adjustments can be made on the "bolted side section mount". In doing so, there are three options for adjusting the intensity of the pulling or pressing force required for removing and installing the clothing guard.

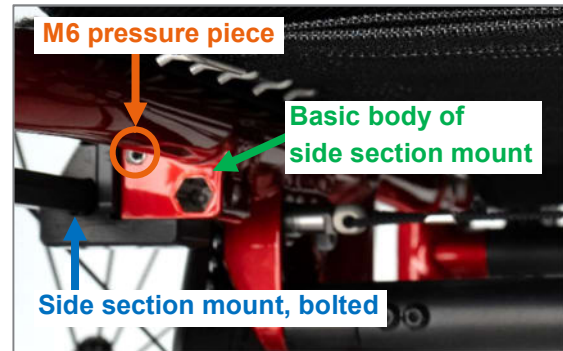


Figure 35: M6 pressure piece screwed into "basic body of side section mount" (view from product interior)

If the front side section mount has too much or too little play in the "side section mount, bolted", it can be adjusted using the **M6 pressure piece** in the basic body of the side section mount. To reduce the play in the front side section mount, screw the M6 pressure piece (AF 3 mm) in a little more by turning it clockwise. To increase the play, turn anti-clockwise to unscrew the M6 pressure piece (AF 3 mm) slightly.



Figure 36: Back side of the sprung pressure piece with slot



Figure 37: Front side of the sprung pressure piece with ball

If the effort required for removing or installing the clothing guard is still too easy or difficult after carrying out the previous adjustment, another setting can be carried out via the spring-suspended pressure pieces. Screw in

the "M6 sprung pressure pieces" (AF 3 mm) a little more (clockwise) using a slotted screwdriver (on the back side of the basic body of the side section mount) (Fig. 38) so that they protrude further out of the basic body of the side section mount (Fig. 39) to increase the force required when removing and installing.

To reduce the force required when removing and installing, screw out the "M6 sprung pressure pieces" a little more (anti-clockwise) so that they protrude a little less out of the basic body of the side section mount.

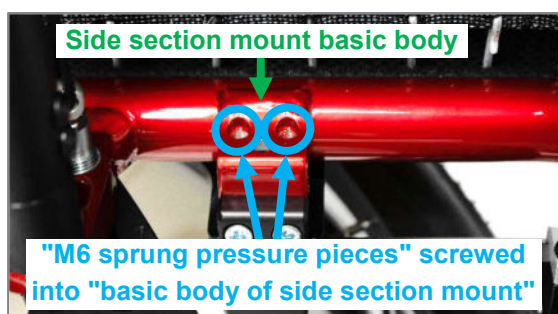


Figure 38: "M6 sprung pressure pieces" screwed into "basic body of side section mount" (view from inner side of product)



Figure 39: Front side of the sprung pressure pieces visible (view from top)

As a final option for adjusting the force required when removing and installing the clothing guard, slightly release the **M5 fixing screws** (AF 4 mm) and pull the "side section mount, bolted" along its slots a little further away from the basic body of the side section mount or press it a little closer towards the basic body of the side section mount.

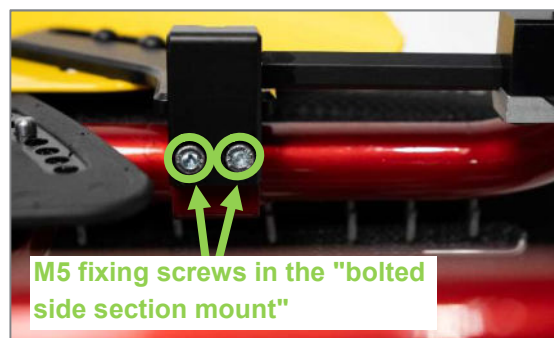



Figure 40: "Side section mount, bolted" with elongated holes and M5 fixing screws on basic body of side section mount (view from below)

### 20.1.5 Clothing guard size

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

The clothing guard (aluminium and carbon) is available in three different sizes. The dimensions of the wheel arches differentiate with the different sizes:

30 mm (size 1), 36 mm (size 2),  
46 mm (size 3).

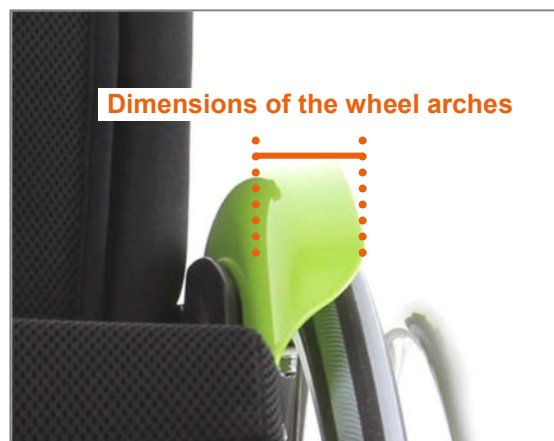


Figure 41: Dimensions of the wheel arches

The size of the clothing guard can be read-off the notches on the bottom edge of the clothing guard. One notch means size 1, two notches mean size 2 and three notches mean size 3.



Figure 42: Size marking on the clothing guard

After changing to a wider tyre size or after changing the wheel camber, it may be necessary to change to another clothing guard size. Where required, such a change may be arranged by your rehabilitation specialist dealer.

## 21 Drive wheels

### 21.1 Removing and attaching the drive wheels



Figure 43: Locking knob of the quick-release axle in the middle of the wheel axle

To **remove the drive wheels**, grip through the spokes around the wheel hub with your fingers. The wheels can be unlocked and removed by pressing and holding the locking knob at the centre of the wheel axle with your thumb.

To **attach the drive wheels**, press the locking knobs and insert the drive wheels with quick-release axle into the drive wheel bushings. When doing this, special attention should be paid to ensure that the locking knob springs out again after attaching the wheel, as otherwise the wheels are not properly secured. You will know this if you can see the index groove.

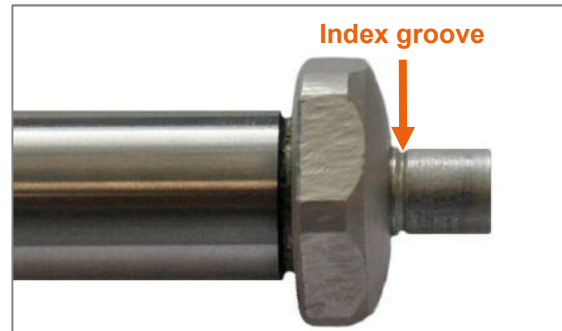



Figure 44: Quick release axle with index groove

 Before using the product, check if the wheels are secured and that the quick release axles are locked.

The quick-release axle is equipped with the small standard locking knobs (see previous figure) as standard. The **quick-release axle with operation support and large push button** can be equipped as an option. The sequence for removing and attaching the drive wheels is identical with this option.

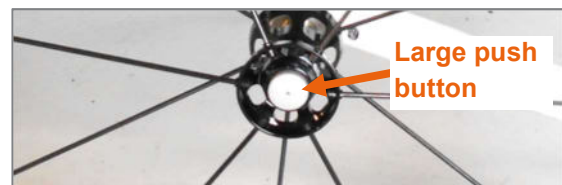



Figure 45: Quick-release axle with operation support, large push button

### 21.2 Checking the wheel tracking of the drive wheel

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

Well adjusted wheel tracking significantly improves the easy running characteristics of the product. The wheel tracking is already adjusted precisely via track spacers before delivery. When changing the wheel plate position, the track spacers must always be reinstalled exactly as they were ex-factory upon delivery. The track spacers have an integrated 2° camber, and the two different heights can be dis-

tinguished via one or two engraved points on the front side below the 2. One point marks the flat track spacer, and two points the higher track spacer, as seen on the following image.



Figure 46: Two 2° track spacers with different material thicknesses

To **check** the wheel track or the correct positioning of the track spacers, e.g., after changing the position of the wheel plate, proceed as follows:

Position the product on a level surface and secure the product against rolling away.

Measure the axle heights (from the ground to the drive wheel axle) and write this dimension onto both tyres at front and back.

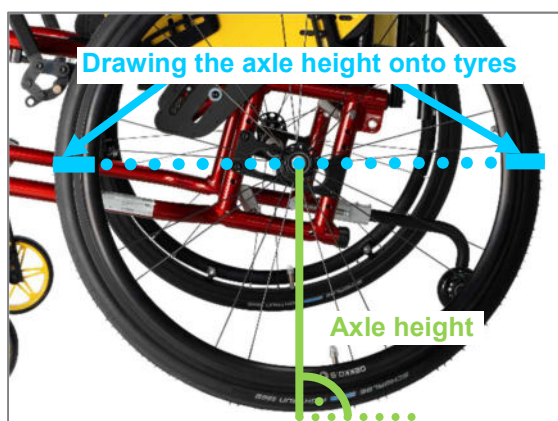


Figure 47: Drawing the axle height on the front and back of both tyres

Afterwards measure the distance between the drive wheels front and back at the height of the axles along the markers. Ideally, the distance between the two drive wheels should be the same size at the front and back. In general it can be said that the distance between the drive

wheels at the front may not be larger than at the back. Apart from that, the distance at the back may not be more than 5 mm larger than at the front. If this is not the case, the wheel tracking needs to be corrected. In this case, check the correct positioning of the track spacers.

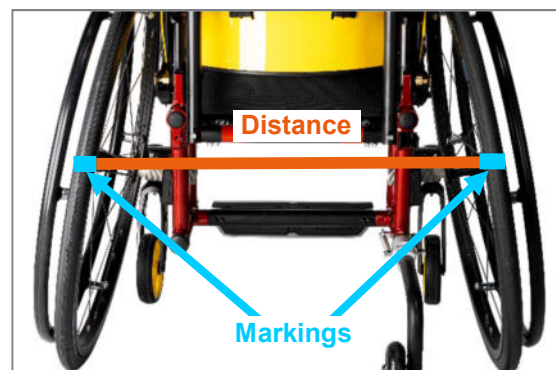


Figure 48: Distance between the markers on the tyres (at axle height), back

To adjust the track, proceed as follows:

1. Loosen the outer fastening nuts (AF 36 mm) on both sides.

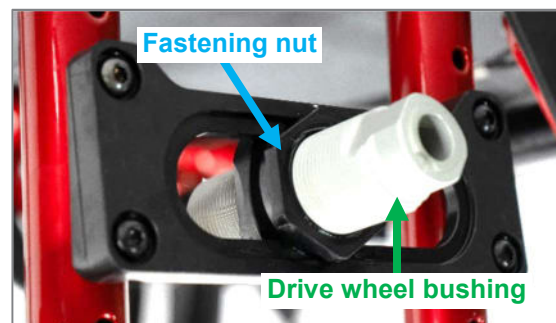


Figure 49: Drive wheel bushing and fastening nut

2. Correctly adjust the track by turning the drive wheel bushing (AF 22 mm). Here it can be said that: If you turn the drive wheel bushings in the direction of travel, the track at the front will become narrower. The exact opposite occurs if you turn it opposite to the direction of travel; the track becomes wider.
3. Make sure that the distance of the front drive wheels from the frame is the same on the right and left.



4. Measure the distance between the drive wheels at the front and back again at the axle height (along the markers) so that the distance between the drive wheels is not any larger at the front than at the back. Apart from that, the distance at the back may not be more than 5 mm greater than at the front.

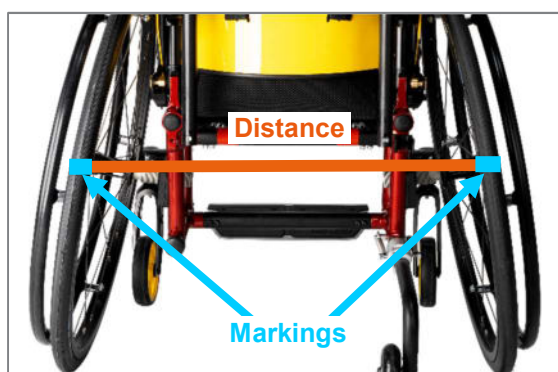



Figure 50: Distance between the markers on the tyres (at axle height), back

5. If all the distances are correct, then use an open-ended spanner (AF 22 mm) to hold the drive wheel bushing in position and tighten the locking nut (AF 36 mm) with a tightening torque of 48 Nm.

### 21.3 Wheel camber

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

The wheel camber increases the lateral stability of the product but also increases the overall width of the product.

The wheel camber will be configured as ordered and can be subsequently changed by replacing the drive wheel bearings (with integrated camber). For larger cambers, an additional 2°, 4° or 6° camber wedge may be necessary. Each of the wedges are engraved with the corresponding camber on the front. If you want to make a change to the camber, please contact your rehabilitation specialist dealer or PRO ACTIV.

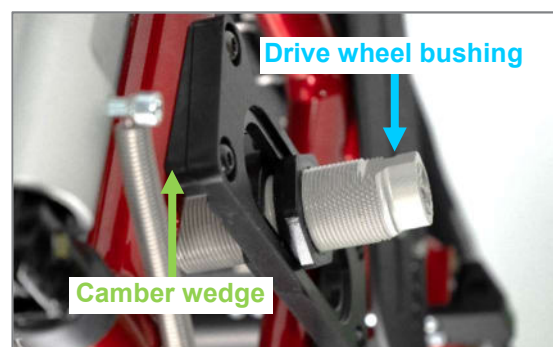



Figure 51: Drive wheel bushing (with integrated wedge) and 4° camber wedge





Figure 52: 4° Camber wedge and 6° camber wedge

### 21.4 Tyre pressure

Check the tyre inflation pressure at regular intervals as well as after extreme influence of temperature (not on solid rubber tyres). The **maximum and if applicable, minimum tyre pressure is printed on the side of the tyre**. This should be observed.

 If the tyre pressure is too low, the optimum functional capability of the knee lever brake is not guaranteed, and an excessively low tyre pressure negatively influences the driving behaviour. Apart from that, there is an increased risk of a flat tyre.

 The tyre pressure increases with the temperature. 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 in a sauna or 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 53: Valve with cap

3. Place the valve attachment of the compressed air device or the compressor onto the valve (if necessary, an adapter must be placed on the valve attachment) and, if a clamp lever is fitted, secure the connection by applying the 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 54: Compressor

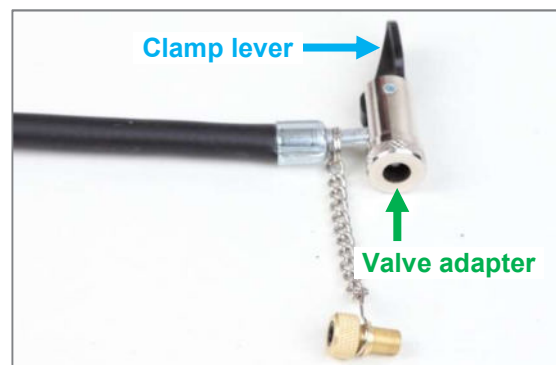


Figure 55: Valve adapter and clamp lever of the compressor

## 21.5 Wheelbase extension

The wheelbase is extended via a **permanently mounted extended bike plate**. The wheels can be inserted into the axle of the extended wheel plate at any time.



Figure 56: Extended bike plate

For **changing the drive wheels** between the wheelchair axle and the axle of the wheelbase extension, proceed as described chapter 21.1.

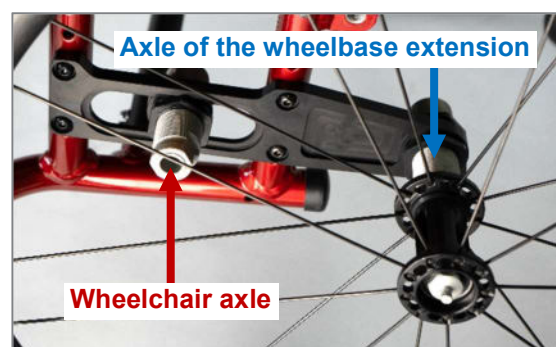


Figure 57: Wheelbase extension via extended wheel plate

## 21.6 Other

If tyres, inner tubes or handrims need to be replaced, please contact your rehabilitation specialist retailer.

### Recommended equipment:

The spoke guard prevents hands and fingers entering and being trapped in the wheels when riding. The risk of injury is thus minimised.

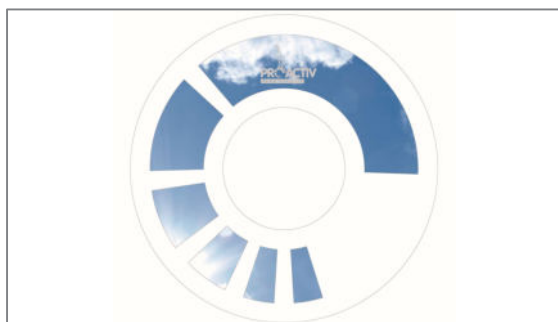



Figure 58: Spoke guard for minimising the risk of hands and fingers getting trapped

## 22 Caster wheels

### 22.1 Replacing the caster wheels

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

The caster wheels of the product are, depending on the type of casters, either fastened with two M6 axle fixing screws or one M6 axle fixing screw and a M6 nut.

#### 22.1.1 Replacing the caster wheels when mounted using two axle fixing screws

To **remove a caster wheel**, unscrew the M6 axle fixing screws (AF 4 mm) on one side.



Figure 59: M6 axle fixing screw of caster wheel axle (view from outer side of product)



Figure 60: Caster wheel with aluminium hexagon socket

Now you can see the aluminium axle with a hexagon socket (AF 4 mm) in the middle of the axle. This hexagon socket is used to fix the axle in place, while the second M6 axle fixing screw (AF 4 mm) is unscrewed. To do this, insert an Allen key (AF 4 mm) into the hexagon socket on the aluminium axle and hold it still. At the same time, unscrew the remaining M6 axle fixing screw (AF 4 mm) on the other side.

Now the caster wheel can be removed from the fork. One spacer each is mounted to the right and left on the caster wheel that you are able to remove in order for it to be reused later when reinstalling the new caster wheel. If you want to install a different type of caster wheel, use the enclosed spacers, as these generally differ depending on the type of caster wheel.





Figure 61: Spacer on the caster wheel

To **mount the caster wheel**, proceed in the reverse order as for removal. Please make sure that the spacers on the right and left on the caster wheel are re-installed in the caster fork before assembly. The torque of the M6 axle fixing screws (AF 4 mm) is 7 Nm. It is recommended only to use screws with polymer dry locking coating. Screws without polymer dry locking coating must be secured with thread-locking fluid.

### 22.1.2 Replacing the caster wheels when mounted using an axle fixing screw and nut

To **remove the caster wheel**, hold the M6 nut (AF 10 mm) firmly and loosen the M6 axle fixing screw (AF 4 mm). Now you can remove the M6 nut and washer, the M6 axle fixing screw with washer and the caster wheel.



Figure 62: M6 axle fixing screw of caster wheel axle (view from outer side of product)



Figure 63: M6 caster wheel axle nut (view from inner side of product)



Figure 64: Caster wheel with aluminium axle




Figure 65: Spacer on the caster wheel

When **mounting the caster wheel**, position the caster wheel with its spacers in the caster wheel fork, hold it in position and insert the M6 axle fixing screw with its washer from the outside of the product to the inside through the axle of the caster wheel. Now attach the washer and the M6 nut (AF 10 mm) from the other side. The tightening torque of the axle fixing screws (AF 4 mm) is 7 Nm.

## 22.2 Caster wheels flapping

Uncontrolled swivelling backwards and forwards of the caster wheels around their axes on the caster fork (while moving) is known as "fluttering".

 If the caster wheels start to flutter, immediately reduce your speed to prevent the caster wheels from jamming sideways and therefore reduce your risk of falling.

The **speed limit** where caster wheel fluttering starts, **is reduced by**:

- increasing size of the caster wheels
- increase weight of the caster wheels
- falling load on the caster wheels
- decreasing caster length of caster wheels

The following options are available to **counteract caster wheel fluttering in general**:

- Fluttering can be reduced by **reducing the caster wheel diameter**. This means installing a small caster wheel in a different wheel position in the caster fork (seat height therefore does not change) would be one way of reducing fluttering. However, please note that using a smaller caster wheel makes it more difficult to overcome obstacles and makes tipping necessary more often. The smaller the caster wheel is, the more driving skill is required.
- Another option for reducing fluttering is to use a **lighter caster wheel with the same diameter** or, as described above, **with a smaller diameter**.



Figure 66: Caster length

- It is also possible to **increase the caster length**. The caster length is the distance between the rotary axle of the caster fork projected onto the floor and the wheel contact point. The wheel contact point of the caster wheel trails behind the rotary axle as it were. The caster length has a stabilizing effect on moving in a straight line. Increasing the caster length can be attained by mounting the caster wheel in a different wheel position on the caster fork (in doing so, the front seat height or the angle of the seat changes, see chapter 17.2). Another possibility is to bend the caster wheel axle (see chapter 22.4) forwards in the direction of travel in the lower area. The angle of the caster wheel axle can be adjusted up to approximately 4 mm over the length of the caster wheel bearing block out of the vertical. This increases the caster length and the tendency to vibrate reduces.

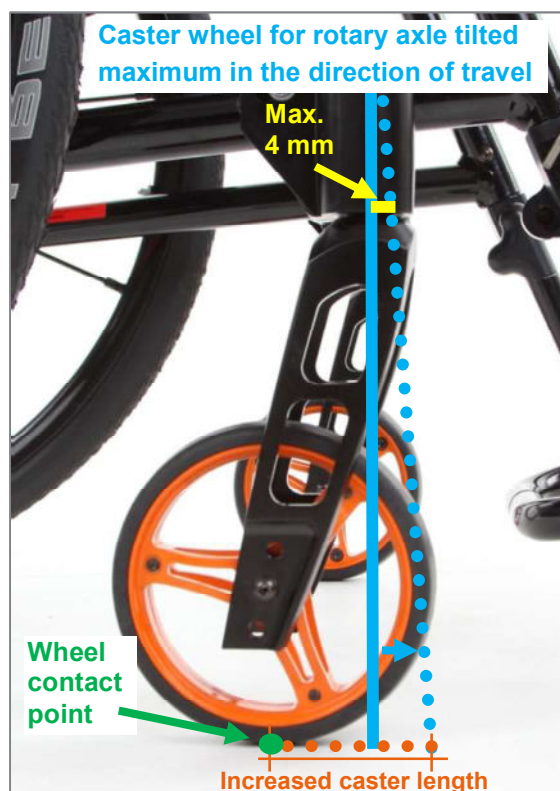



Figure 67: Increased caster length via the inclination of the caster wheel axle

## 22.3 Replacing the caster forks

A distinction needs to be made between the caster forks with a screwed axle and those with a quick-release axle.

### 22.3.1 Caster fork with screwed axle

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

To **remove the caster fork with screwed axle**, first the aluminium cap on the caster wheel bearing block must be removed. In order to release the cap, you can run under the cap using a commercially available cutter knife and lift slightly at several points. Then the M12 nut (AF 19 mm) is loosened using, e.g. an AF 19 mm socket. Now the caster wheel for rotary axle can be pulled out from under the caster wheel bearing block.



Figure 68: Aluminium cap



Figure 69: Aluminium cap removed and M12 nut visible

To **assemble the caster fork with screwed axle**, this is inserted into the caster wheel bearing block with the caster wheel for rotary axle. Then the M12 nut (AF 19 mm) is tightened again to 3 Nm and secured with thread-locking fluid. Then the aluminium cap is pressed back onto the caster wheel bearing block.

For the rotary axle to run smoothly, the M12 nut must not be tightened to more than 3 Nm. In case more sluggishness is desired, this can be achieved using a higher tightening torque.

### 22.3.2 Caster forks with quick-release axles


The **caster fork with quick release axle is removed** using the locking knob on the inner side of the caster fork. Grasp around the caster fork and press the locking knob with your thumb. The caster fork can now be pulled out.



Figure 70: Caster fork with quick-release axle and locking knob

When **assembling the caster fork with quick-release axle**, press the locking knob again and insert the caster fork rotary axle into the caster wheel bearing block. When doing this, particular attention must be paid to ensuring that the locking knob springs all the way out again after attaching the fork, as the forks are otherwise not secured correctly. You will know that if you can see the index groove (Fig. 44).

## 22.4 Adjustment of the caster fork rotary axles

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

To ensure that the product has good properties when steering and driving straight ahead, the caster wheel axle should be adjusted to be vertical to the level ground.

Adjustments on the caster wheel axles can be required for the following reasons:

- The tipping point and/or seat heights have been changed.
- The caster wheel axles are no longer vertical due to a fall or an impact.
- The flatter of the caster wheels should be reduced.

To adjust the caster fork rotary axles, the product should be standing on a level surface and the wheel track of the drive wheels should be correct (chapter 21.2).

Now **check** whether the caster fork rotary axles are positioned perpendicular to the level ground. For this purpose, place an angle with height adjustable slider on the front edge of the caster wheel bearing blocks. The slider should be aligned at the middle of the caster wheel bearing block.

### Information:

If the front edges of the caster wheel bearing blocks are perpendicular to the level ground, the caster fork rotary axles are as well.

Observe that the front edges of the caster wheel bearing blocks are slightly rounded. Thus, the distance above and below between the slider of the angle and the front edge of the caster wheel bearing blocks must be the same size.

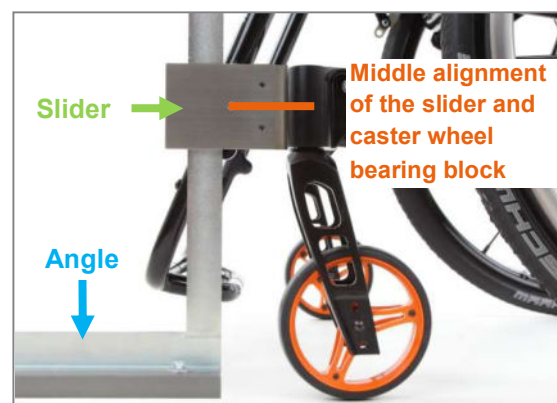


Figure 71: Checking the adjustment of the caster wheel axles



### Tool recommendation:

The angle with slider can be ordered from PRO ACTIV (order number: E8000 901 000).

If the front edges of the caster wheel bearing blocks are not standing vertical to the level ground, the settings must be adjusted. First, **adjust** the right caster wheel bearing block, then the left one, and finally check the right side again.

#### 22.4.1 Adjustment of caster wheel bearing block, welded

To adjust the caster wheel bearing blocks, proceed as follows:

1. Loosen the M5 stud bolt (AF 2.5 mm).

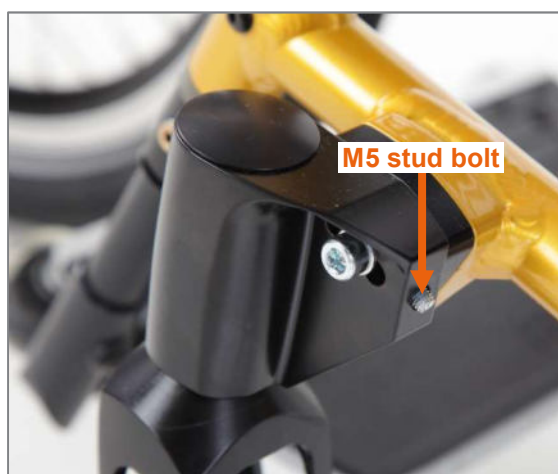


Figure 72: Stud bolt

2. Undo the M6 fixing screw (AF 5 mm) slightly on the frame inner side.

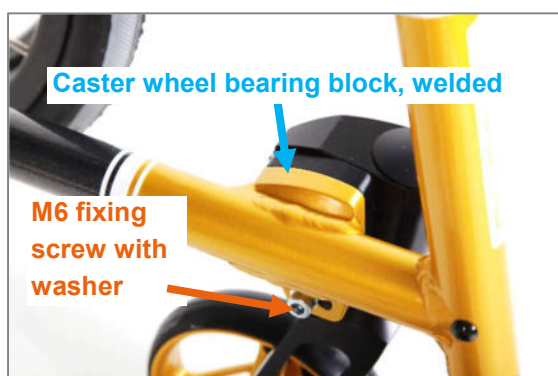



Figure 73: M6 fixing screw on the frame inner side with washer

3. Now slightly loosen the M6 fixing screw (AF 5 mm) on the outside of the frame.



Figure 74: M6 fixing screw on the frame outer side


4. Using the aid of the angle, move the caster wheel bearing block in a vertical position to the level ground.
5. Tighten the M6 fixing screws (AF 5 mm) again on the frame outer and inner side to a tightening torque of 10 Nm and recheck the vertical setting.
6. Screw the M5 stub bolt (AF 2.5 mm) back in so that this rests on the M6 fixing screw.

 After performing adjustment work on the caster wheel bearing block twice, renewing the screw locking fluid for the M6 fixing screws (AF 5 mm) on the outer and inner sides of the frame is recommended.


### Note:

To reduce caster wheel flutter, it may be necessary to tilt the caster fork rotary axes from the vertical (chapter 22.4).

## 23 Footrests

 Make sure the ground clearance under the footrest is sufficient. Experience shows that this should not be less than 4 cm. This must be observed for the angle adjustment of the foot-plate support and when setting the lower leg length.

### 23.1 Angle adjustment of the footplate support

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

The **angle** of the **footplate support** can be set by releasing the M6 fastening clamp screws (AF 5 mm) on the lower side of the footrest support plate. When the angle adjustment is completed, tighten the M6 fastening clamp screws (AF 5 mm) again to maximum 5 Nm. This tightening torque should not be exceeded as higher tightening torques can damage the clamp.

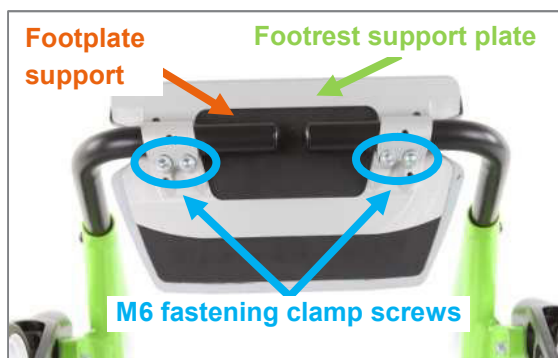


Figure 75: Footrest from below

### 23.2 Continuous footrest and high-distance footrest



Figure 76: Footrest continuous

For the **longitudinal setting of the footrest support tubes or adaptation to the lower leg length**, the M6 fixing screws (AF 4 mm) must

be undone on both sides on the outside of the frame tube. The footrest support tubes are then pushed along their slots and thus brought into the correct position. Observe that the footrest support tubes are both the same length on both sides after they have been adjusted.



Figure 77: M6 fixing screw with washer and slot in footrest support tube for adjusting the lower leg length

Once the position has been set, fix the footrest support tubes by tightening the M6 fixing screws (AF 4 mm) with washers to 11 Nm on both sides.

**Additional adjustment options for lower leg length with the footrest at a greater distance:** For lower leg lengths of less than 29 cm, the footbar is moved upwards with the help of corresponding footbar holders, which does not restrict the adjustment options. The lower leg length can also be changed by installing spacers of different lengths. In addition, in this case the footplate support can be shifted lengthwise.

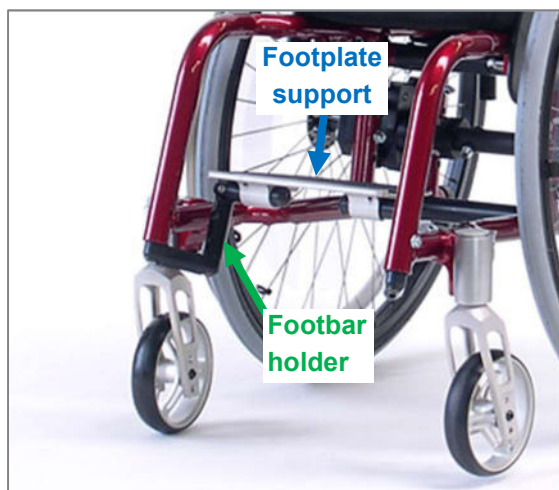


Figure 78: Footrest at a greater distance

### 23.3 Footrest folding up to one side

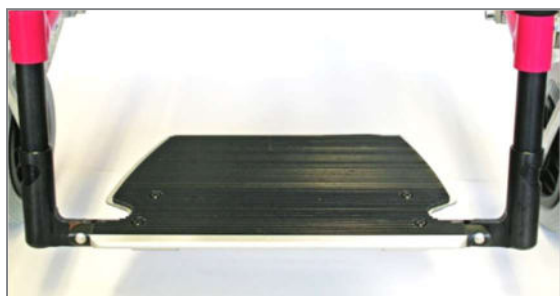


Figure 79: Footrest folding up to one side, standard position

For **footrest folding up to one side**, lift the footplate support up in the direction of travel on the left side.

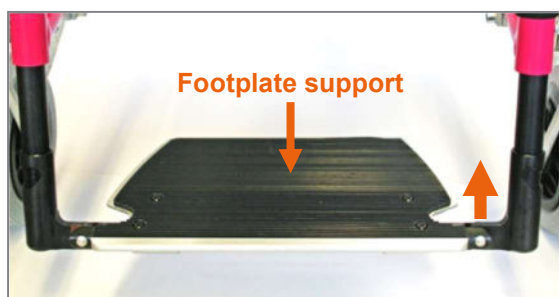


Figure 80: For folding up to one side, lift the footrest up in the direction of travel on the left side (product view from the front)

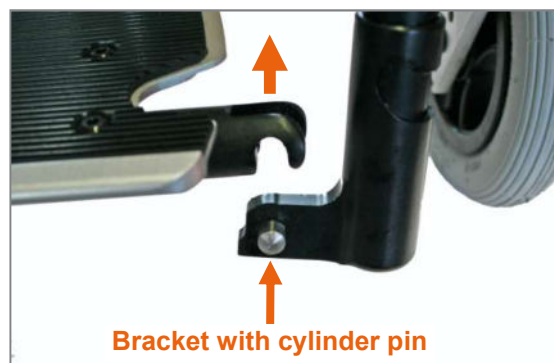


Figure 81: Footplate support raised from the bracket (product view from the front)

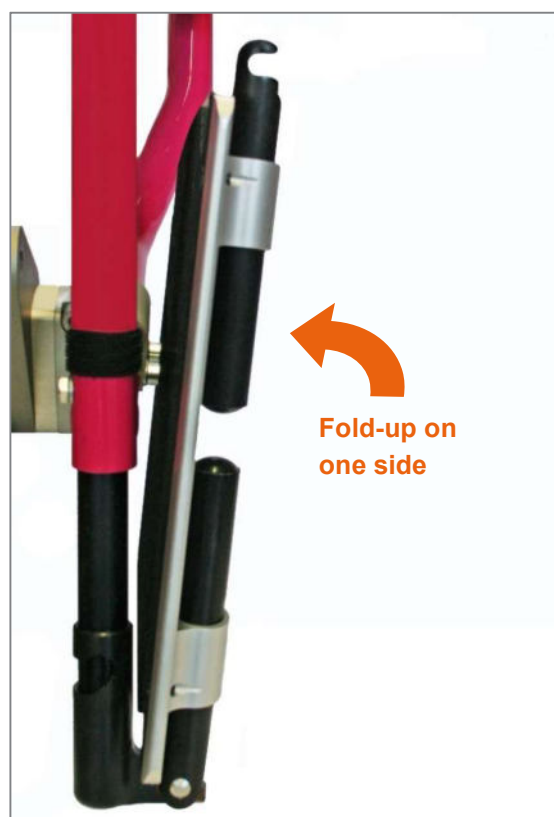


Figure 82: Footrest folded up on one side (product view from the front)

When you fold the footrest back down, take care that the recesses are resting accurately at the back and front on the cylinder pins of the bracket.



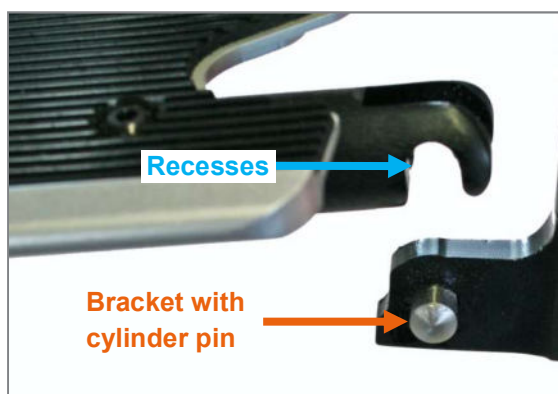


Figure 83: Cylinder pin and corresponding recesses

For the **longitudinal setting of the footrest support tubes or adaptation to the lower leg length**, the M6 fixing screws (AF 10 mm) must be undone on both sides on the outside of the frame tube. The footrest support tubes are then pushed along their slots and thus brought into the correct position. Observe that the footrest support tubes are both the same length on both sides after they have been adjusted.

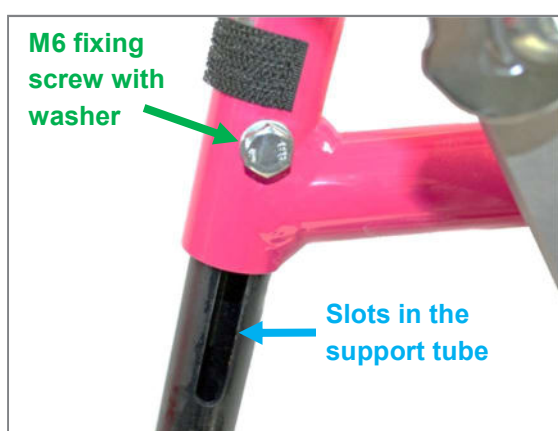


Figure 84: M6 fixing screw with washer and slot in footrest support tube for adjusting the lower leg length

Once the position has been set, fix the footrest support tubes by tightening the M6 fixing screws (AF 10 mm) with washers to 7 Nm on both sides.

## 23.4 Footrest folds up to the rear with spring locking mechanism



Figure 85: Footrest, folding up to the rear, with spring latching mechanism, in standard position

To **fold the footrest up to the rear**, the footplate must be pushed gently backwards until the footrest is released from the lock. Now the footrest can be folded up completely to the rear.

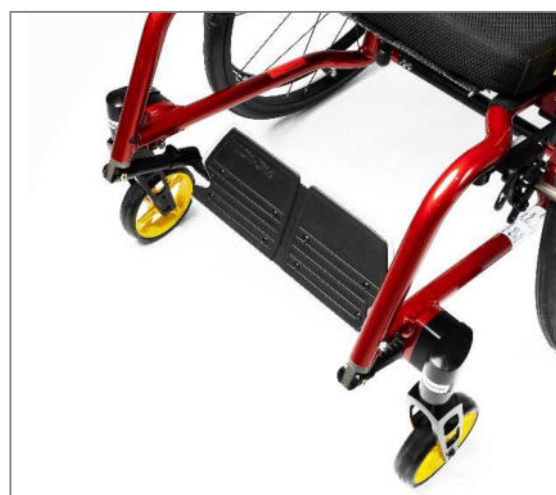


Figure 86: Footrest, folding up to the rear, with spring latching mechanism, folded up to the rear

If you want to return the footrest to the standard position again, push it back forwards to the standard position.

To **adjust the length of the footrest support tubes or adapt the lower leg length**, the M6 fastening clamp screws (with polymer dry lock-

ing coating, AF 4 mm) must be unscrewed on both outer sides of the lower leg tubes. The lower leg length can now be adjusted along the notches. Make sure that the same notch is used on both sides.

A large adjustment range is available for a shorter lower leg length. If a longer lower leg length is desired, it can usually be extended by 2 cm with the existing lower leg tube. If a greater extension is desired, longer lower leg tubes can be obtained from PRO ACTIV.

Once the lower leg length is adjusted, fix it in position by inserting the M6 fastening clamp screws (with polymer dry locking coating, AF 4 mm) on both sides and tightening them to 7 Nm.

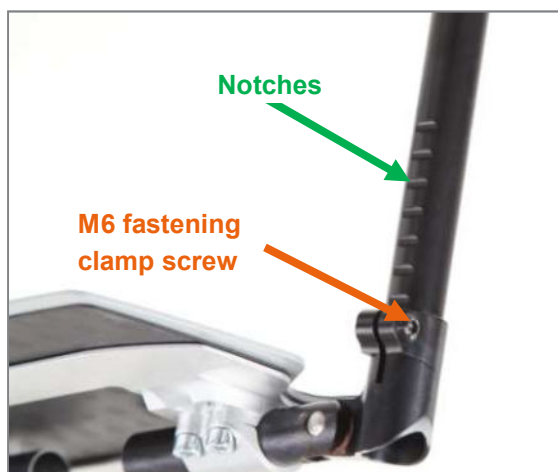


Figure 87: Notches and M6 fastening clamp screw for lower leg length adjustment (view from the rear)

### 23.5 Divided footrest



Figure 88: Divided footrest, standard position

To **fold up** one of the two footrest parts, grasp it and fold it up to the side. Moreover, you can also **turn or pivot the footplate support outwards**.

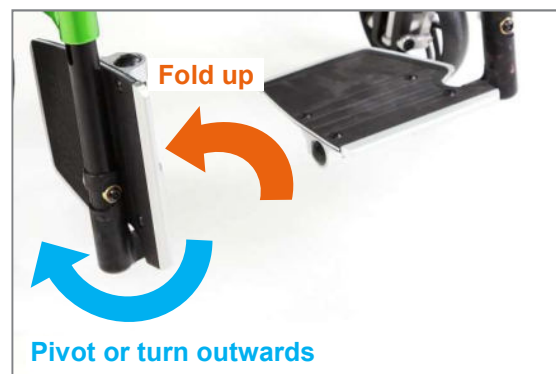


Figure 89: One footrest folded up, option for pivoting outwards marked

For the **longitudinal setting of the footrest support tubes or adaptation to the lower leg length**, the M6 fixing screws (AF 10 mm) must be undone on both sides on the outside of the frame tube. The footrest support tubes are then pushed along their slots and thus brought into the correct position. Observe that the footrest support tubes are both the same length on both sides after they have been adjusted.



Figure 90: M6 fixing screw with washer and slot in footrest support tube for adjusting the lower leg length

Once the position has been set, fix the footrest support tubes by tightening the M6 fixing screws (AF 10 mm) with washers to 7 Nm on both sides.

### 23.6 Foot support variably positioned/rear can be folded up

The footplate arms are clamped on the left and right into the foot bracket clamps on the lower frame tubes. The foot bracket clamps are secured against twisting through interlocking serration.

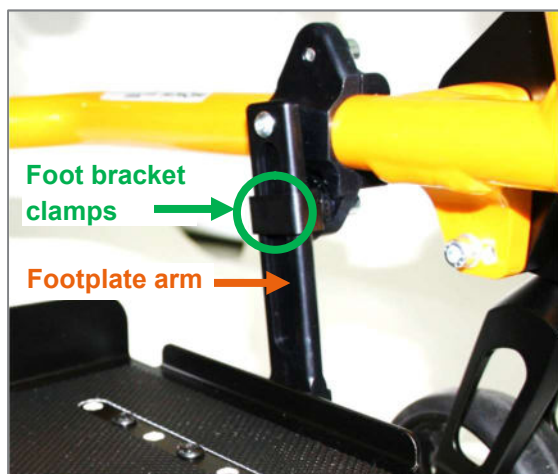


Figure 91: Illustration of terms

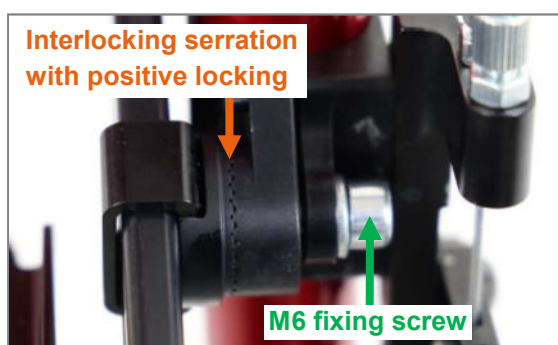




Figure 92: Serration on the foot bracket clamp, with positive locking

#### 23.6.1 Adjusting the length of the footplate arms

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

To adjust the length of the footplate arms, the M6 fixing screws (AF 5 mm; Fig. 92) on the foot bracket clamps have to be unscrewed. The length of the footplate arms can then be adjusted.

#### 23.6.2 Angle adjustment of the footplate arms

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


If the **angle of the footplate arms** is to be changed, then the M6 fixing screws (AF 5 mm) need to be loosened further so that the positive locking on the interlocking serration is released. Now the angle of the footplate arms can be adjusted.

Once you have finished adjusting the angle and the length, tighten the M6 fixing screws (AF 5 mm) again using 7 Nm tightening torque.



Figure 93: Serration on foot bracket clamps, positive locking undone

#### 23.6.3 Angle adjustment of the footplate support

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

The angle of the footplate support plate on the **variable positioning foot support** can be set by unscrewing the M6 fastening clamp screws (AF 5 mm) on the lower side of the footrest support plate. When the angle adjustment is completed, tighten the M6 fastening clamp screws (AF 5 mm) again to 5 Nm. This tightening torque should not be exceeded as higher tightening torques can damage the clamp.

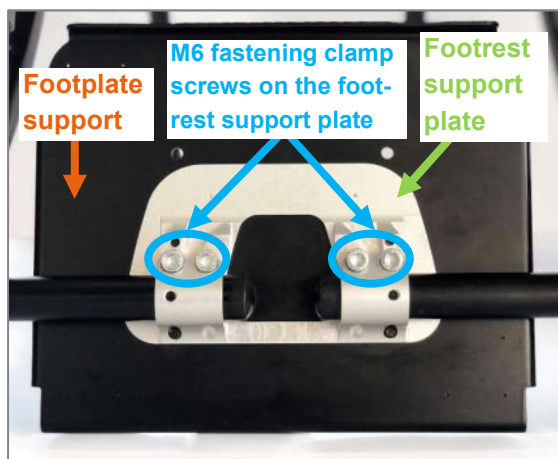


Figure 94: Foot support can be variably positioned (view from below)

As an option, it is also possible to choose a **footplate support** that can be **folded up towards the rear**. If the angle of these is to be adjusted, in addition to the M6 fastening clamp screws (AF 5 mm) on the footrest support plate, the M6 fastening clamp screws (AF 4 mm) of the footplate stops must also be loosened. Now the angle of the footplate support and the footplate stops can be adjusted. Then tighten the M6 fastening clamp screws (AF 5 mm) on the footrest support plate so that the footrest support plate with the footplate support can be rotated around the tube. Depending on the requirements of the wheelchair user, this tightening torque corresponds to a guide value of 3 Nm. The M6 fastening clamp screws (AF 5 mm) on the footrest support plate must be secured with screw locking fluid. The M6 fastening clamp screws (AF 4 mm) on the footplate stops are tightened with 11 Nm.

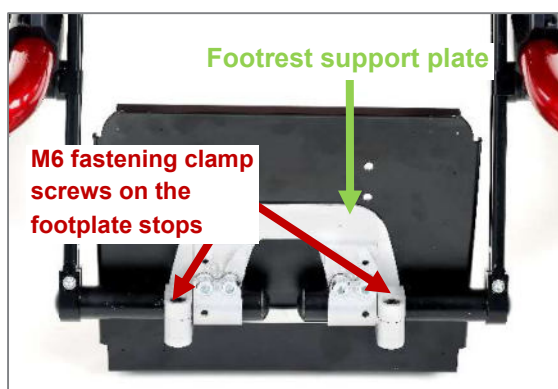



Figure 95: Footplate support folding up towards the rear, folded up

## 23.7 Safety instructions

 Ensure when setting the lower leg length, that no strong pressure is produced between the underneath of the lower leg of the wheelchair user and the edge of the seating system.

## 24 Anti-tipping support

To minimise the risk of tipping backwards unintentionally, anti-tipping supports are available as accessories. The anti-tipping support is adapted to the wheelchair frame in the lower frame tube via a quick pin and can be folded upwards via a spring system. After unhooking the spring, the anti-tipping support can also be completely removed.

### 24.1 Operating and passive position

To overcome an obstacle, the anti-tipping support must be swivelled from the operating to the passive position beforehand so that it does not knock against the obstacle.

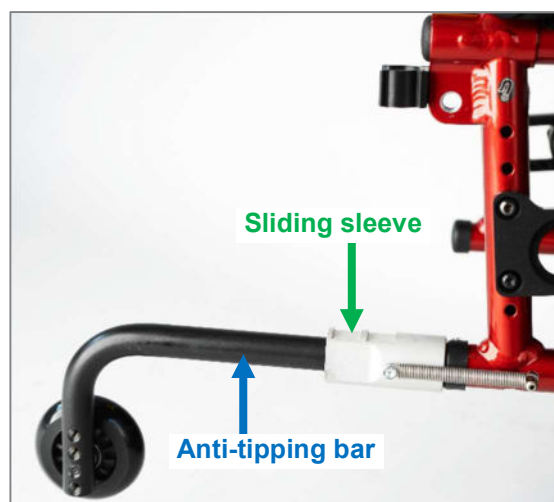


Figure 96: Operating position of the anti-tipping support





Figure 97: Passive position of the anti-tipping support

To move the **anti-tipping support into the operating position**, pull the anti-tipping bar out of the anti-tipping support adapter and swivel the anti-tipping support to the rear. Ensure that the sliding sleeve engages properly.

To move the **anti-tipping support into the passive position**, press the sliding sleeve to the back and swivel the anti-tipping support to the rear. Make sure that the anti-tipping support is properly engaged in the anti-tipping support adapter.

## 24.2 Removing and attaching the anti-tipping support



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

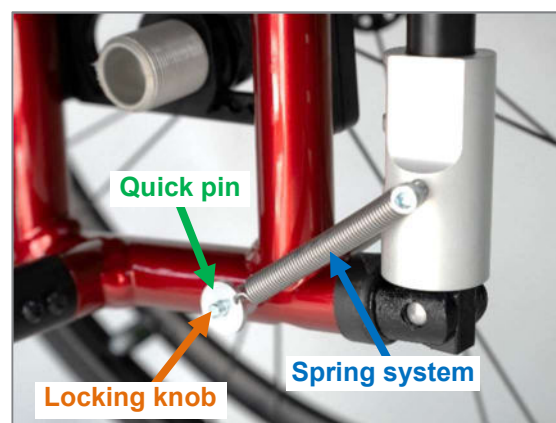


Figure 98: Quick pin and spring system of the anti-tipping support

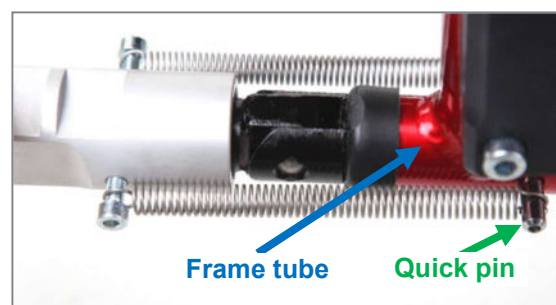


Figure 99: Anti-tipping support pulled to the rear

To remove the **anti-tipping support**, pull the quick pin out of the frame tube and the spring system while holding down the locking knob. Finally, pull the anti-tipping support out.


To **attach** the anti-tipping support, inset the anti-tipping support in the frame tube. Then hold down the locking knob and push the quick pin through the end of the first spring, then through the frame tube and finally through the end of the second spring.


## 24.3 Safety instructions




The anti-tipping support is designed exclusively to minimise the risk of tipping over backwards. It is not suitable for reducing the risk of tipping forwards or to the side. There is no safety equipment on offer for minimizing these risks. For this reason, handling these risks need to be learnt in cooperation with your therapists and doctors.



 Before using the product, each time after loading the anti-tipping supports and after every adjustment to the product, make sure that the anti-tipping supports are fully functional. In this case, it must not be possible to swivel the anti-tipping supports to the side when in operating position without having to unlock them first.

 The lower edge of the anti-tipping wheels may not be more than 5 cm from the ground. If a larger gap is required or necessary, then you need to work with your therapists and doctors to practice and learn to handle the increased risk of tipping.

 If the functional capability of the anti-tipping supports is no longer ensured or if you are in any doubt about their flawless function, have them checked by your rehabilitation specialist dealer and repaired before any further use. Otherwise there is an increased risk of falling or getting injured.

## 25 Brakes

### 25.1 Knee lever brake

#### 25.1.1 Opening and closing the brake

The knee lever brake can be equipped with different brake levers, such as, e.g. standard brake lever, long brake lever, flared brake lever and flip-down brake handle. The brake lever can be mounted in the standard position, or low. The knee lever brake can also be selected with one-hand operation, in which case only one brake lever is present on the right or left. However, operation is identical for all of these brake levers.



Figure 100: Knee lever brake system equipped with brake lever at 20°



**Video:** Knee lever brake with one-hand operation

The **brake is closed** by pushing the brake lever forwards and downwards. In the closed position, the brake pin pushes the tyre in by approx. 4 mm (at the specified air pressure in the tyre).

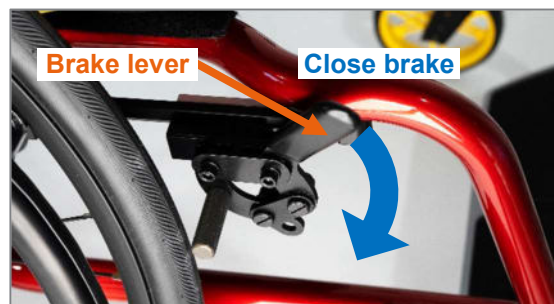



Figure 101: Brake opened, closed by pushing the brake lever forwards and downwards

 Please note that the knee lever brake is a parking brake which may only be applied when the product is at a standstill. This is not a service brake which is suitable for reducing speed.

To **open the brake**, pull the brake lever back up and rearwards again. In the open position, the distance between the brake pin and the tyre is approx. 3 to maximum of 4 mm.

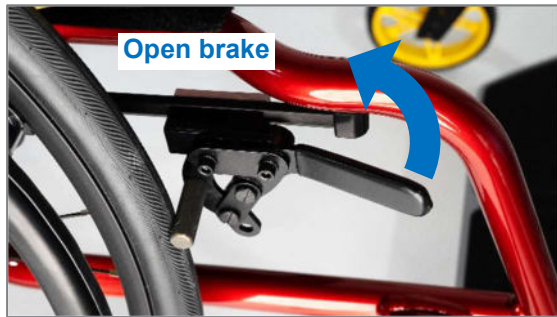



Figure 102: Brake closed; opening done by pulling the brake lever up and rearwards

### 25.1.2 Setting the brake

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

Settings on the brake could be necessary for the following reasons:

- You have changed the tyre or the tyre pressure.
- You have changed the wheel tracking or the position of the drive wheels.
- The brake is pulling unevenly or insufficiently after extended use.

To adjust the knee lever brake, proceed as follows on both sides:

1. Initial situation: Drive wheels mounted on the product and the knee lever brakes open. The drive wheels have the specified inflation pressure.
2. For the **correct positioning** of the knee lever brake, slightly loosen the M5 clamp screws (AF 4 mm) so that the knee lever brake can be moved on the hexagon rail.

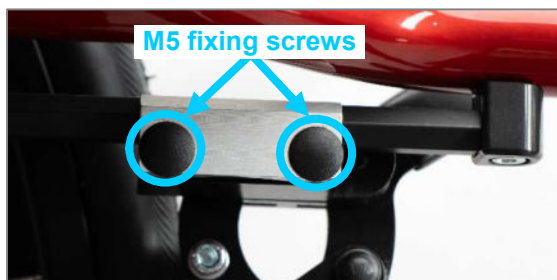


Figure 103: M5 fixing screws on the hexagon rail (view from product interior)

3. Position the opened brake on the hexagon rail so that there is a distance of approx. 3 to max. 4 mm between the brake pin and the tyre.



Figure 104: Distance between the brake pin and tyre of approx. 3 to max. 4 mm with the brake opened

4. Tighten the M5 clamp screws (AF 4 mm) to 4 Nm again.
5. Then check the correct setting of the brakes: On a slope (7° gradient) the product should stand firm with the brake applied. This is the case if, with the brake applied, the tyre is depressed or deformed by approximately 4 mm by the brake pin (at the specified tyre inflation pressure). When the brake is open, the distance between the brake pin and the tyre is approx. 3 to maximum 4 mm.
6. The **actuating force** of the brake lever can be adjusted using the M5 joint screws and M5 nuts. For this purpose, you need a slotted screwdriver and an open-ended spanner (AF 8 mm). The screw is held at the front with the slotted screwdriver and the open-ended spanner (AF 8 mm) is used to tighten or loosen the nut at the rear. An important point here is that both joint screws must be tightened equally as this leads to a long-lasting uniform actuating force of the brake lever.



Figure 105: M5 joint screws for setting the actuating force of the brake lever

**Note:**

The brake pin is usually mounted in the standard position (see following figure). The assembly of the brake pin in the other possible position (see following figure) may be necessary after the adjustment of the drive wheels.

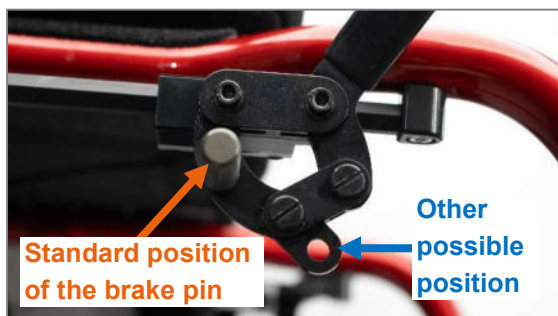


Figure 106: Positions of the brake pin

## 25.2 Knee lever brake with lock



Figure 107: Knee lever brake with lock

To release or apply the knee lever brake, pull the locking knob out of its lock and turn it 90°. The brake lever can then be used to apply or release the brake.



Figure 108: Locking knob pulled out of lock and turned 90° (view from the front)

The **brake is closed** by pushing the brake lever forwards and downwards. In the closed position, the brake pin pushes the tyre in by approx. 4 mm (at the specified air pressure in the tyre).

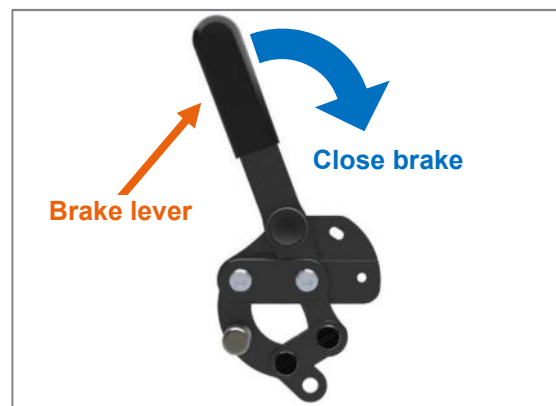


Figure 109: Brake opened, closed by pushing the brake lever forwards and downwards



Please note that the knee lever brake is a parking brake which may only be applied when the product is at a standstill. This is not a service brake which is suitable for reducing speed.

To **open the brake**, pull the brake lever back up and rearwards again. In the open position, the distance between the brake pin and the tyre is approx. 3 to maximum of 4 mm.



Figure 110: Brake closed; opening done by pulling the brake lever up and rearwards

To **lock** the brake position, turn the locking knob 90° and allow it to engage in the intended hole in the locking block.

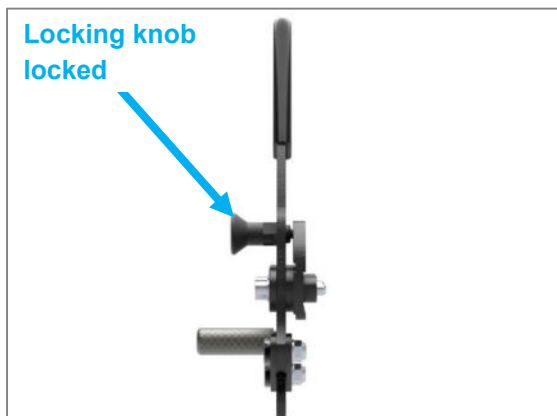


Figure 111: Locking knob engaged in locking block (view from the front)



**Video:** Operating the knee lever brake with lock

### 25.3 Drum brake



Figure 112: Drum brake

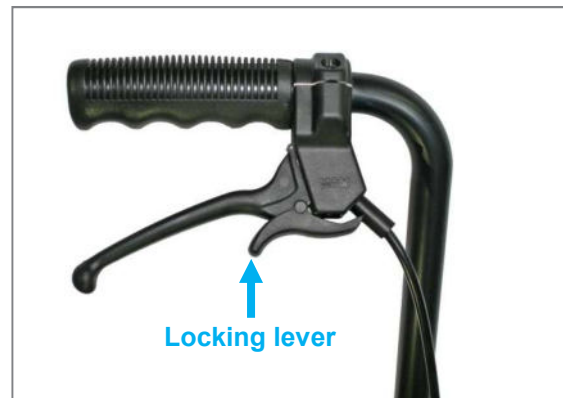


Figure 113: Brake handle on the pushing device with locking lever

To **actuate the drum brakes**, use the brake handle on the pushing device of the product. The drum brake is a service brake and can be operated when travelling for reducing the speed. In order to use the drum brake as parking brake, also operate the locking lever.

To **open the drum brake**, actuate the locking lever again and thus release the parking brake of the brake.




## 25.4 Knee lever brake with brake lever integrated into the clothing guard

### 25.4.1 Opening and closing the brake

The **brake is closed** by pushing the brake lever forwards and downwards. In the closed position, the brake pin pushes the tyre in by approx. 4 mm (at the specified air pressure in the tyre).



Figure 114: Brake opened; push the brake lever forwards and downwards to engage the brake

 Please note that the knee lever brake is a parking brake which may only be applied when the product is at a standstill. This is not a service brake which is suitable for reducing speed.

To **open the brake**, pull the brake lever back up and rearwards again. In the open position, the distance between the brake pin and the tyre is approx. 3 to maximum of 4 mm.

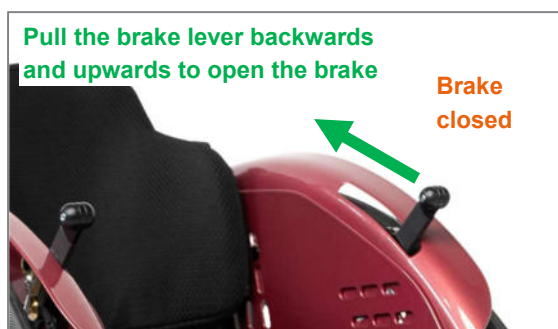


Figure 115: Brake engaged; pull the brake lever to the rear to release the brake

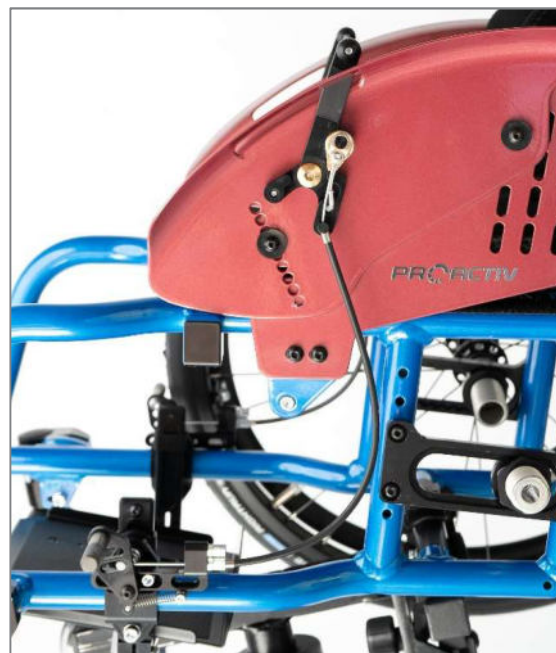



Figure 116: Knee lever brake with brake operation integrated in the clothing guard

### 25.4.2 Setting the brake

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

Settings on the brake could be necessary for the following reasons:

- You have changed the tyre or the tyre pressure.
- You have changed the wheel tracking of the drive wheels.
- The brake is pulling unevenly or insufficiently after extended use.

To adjust the knee lever brake, proceed as follows:

1. Initial situation: Drive wheels mounted on the product and the knee lever brakes open. The drive wheels have the specified inflation pressure.
2. Loosen the M5 fixing screws (AF 4 mm) which are used to attach the brake to the brake mounting bar on the brake mount.





Figure 117: M5 fixing screws

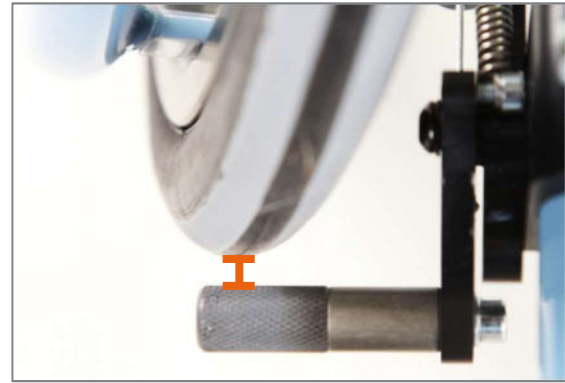


Figure 119: Distance between brake pin and tyre of approx. 3 mm to maximum 4 mm, with opened brake

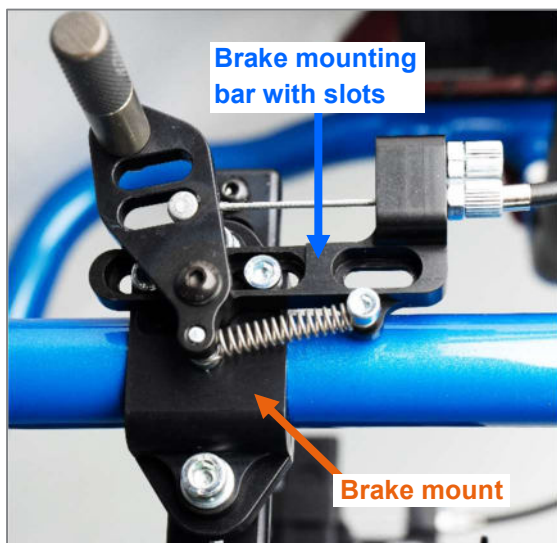


Figure 118: Brake mount and brake mounting bar

3. Position the open brake so that there is approx. 3 mm clearance between the brake pin and tyre up to a maximum of 4 mm. You can use the adjustment range provided by the slots on the brake mounting bar.

4. Tighten the M5 fixing screws (AF 4 mm) again to 4 Nm.
5. Then check the correct setting of the brakes: On a slope (7° gradient) the product should stand firm with the brake applied. This is the case if, with the brake applied, the tyre is depressed or deformed by approximately 4 mm by the brake pin (at the specified tyre inflation pressure). When the brake is open, the distance between the brake pin and the tyre is approx. 3 to maximum 4 mm.
6. Retrospective fine adjustments can be made at any time using the infinitely adjustable adjustment screw on the lower mount of the wire rope. To do this, open the lock nuts (AF 8 mm) and unscrew the adjustment screw. This will tension the wire rope until the required distance between the brake pin and the drive wheel is reached. Then tighten the lock nuts again with a tightening torque of 4 Nm.

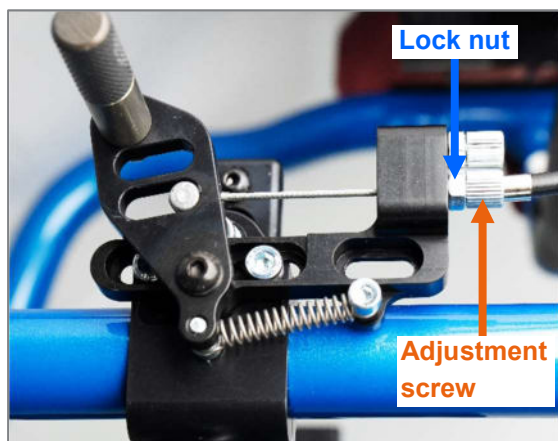


Figure 120: Fine adjustments can be made on the brake using the adjustment screw on the lower mount of the wire rope

## 25.5 Parking knee lever brake for accompanying person



Figure 121: Brake handle on the pushing device with locking lever

To **actuate the parking knee lever brake**, use the brake handles on the pushing device of the product and actuate the locking lever.

To **release the parking knee lever brake**, actuate the locking lever again and thus release the brake lock.

The brake handles with locking lever can be mounted on push handles offset to the back or a central push handle.

**⚠** Please note that the knee lever brake is a parking brake which may only be applied when the product is at a standstill. This is not a service brake which is suitable for reducing speed.

## 26 Push handles

### 26.1 Safety push handles back-positioned

**Adjusting the height** of back-positioned push handles is possible without tools using the quick release levers. For adjusting, the quick release levers are opened and closed again after adjusting. The height can be infinitely adjusted. We recommend adjusting both push handles to the same height.



**Video:** Height adjustment of safety push handles offset to the back

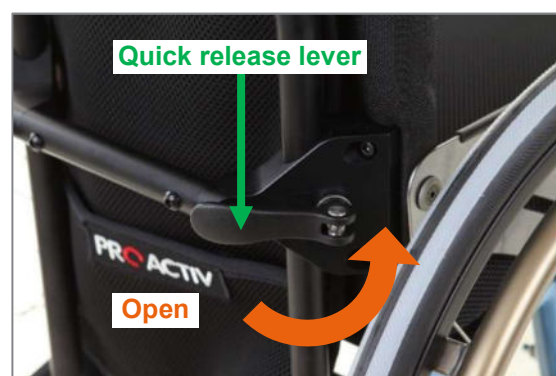


Figure 122: Closed quick release lever


To **remove** the push handle, the M4 end stop screw (AF 3 mm) needs to be unscrewed and the quick release lever needs to be opened.




Figure 123: M4 end stop screw mounted at the bottom of a push handle offset to the back

To **attach** them, the push handles are inserted and held at the correct height, and the quick

release levers are closed. Finally, the M4 end stop screws (AF 3 mm) are screwed in again.

 If necessary the tension can be adjusted by turning the quick release lever clockwise until it reaches the end stop.

 Each time prior to use, the M4 end stop screws (AF 3 mm) must have been mounted again.

#### Equipment option:

The push handles are also optionally available with lateral handle offset.



Figure 124: Push handles, offset to the back, with lateral handle offset

#### 26.2 Central push handle with folding gripping area and folding push handle bar



Figure 125: Central push handle with folding gripping area



Figure 126: Foldable push handle bar

**Adjusting the height** of the central push handle and the push handle bar is possible without tools using quick release levers. To adjust, the quick release lever(s) is (are) opened and closed again after adjusting. The height can be infinitely adjusted.



Figure 127: Closed quick release lever




Figure 128: Quick release lever open

To **remove** the push handle, the M4 end stop screw (AF 3 mm) needs to be unscrewed and the quick release lever needs to be opened. On the push handle bar, both M4 end stop screws (AF 3 mm) must be unscrewed and both quick release levers opened.



Figure 129: M4 end stop screw attached to bottom of central push handle

If necessary the tension can be adjusted by turning the quick release lever clockwise until it reaches the end stop.

 Prior to each use, the M4 end stop screws (AF 3 mm) must have been mounted again.

**Angle adjustment or folding the gripping area** is carried out via a serrated joint. To adjust the angle, the rotary knob is opened anti-clockwise and closed again by turning clockwise after setting the desired angle. On the push handle bar, both rotary knobs have to be operated.





Figure 130: Rotary knob for adjusting the angle and folding



Figure 131: Central push handle with folding gripping area completely folded

## 26.3 Safety instructions

 After every adjustment or after reattachment following removal, check that the push handles are firmly attached in position.

 Due to environmental effects, it is possible that the properties and therefore secure attachment of the push handle covers may change detrimentally. For this reason, it is important to check that the handles are tightly fitted and fixed in position prior to use. If this should no longer be the case, then the push handles may not be used until they have been fixed.

## 27 Passenger transport in motor vehicles

### 27.1 Standard specifications

In order to approve the product as a seat for passenger transport in motor vehicles, verification of the dynamic crash stability according to ISO 7176-19 (wheelchairs for use in motor vehicles) is required.

Furthermore, the additional retention system is required for the safe transport of the person sitting in the product in a motor vehicle, that complies with the requirements according to DIN 75078-2 (Motor vehicle for the transportation of handicapped persons – Part 2: Restraint systems) and ISO 10542-1 (Technical systems and aids for disabled or disadvantaged per-



sons – wheelchair restraint and occupant restraint systems).

PRO ACTIV offers occupant and wheelchair restraint systems with new orders, but also for retrofitting. In the following, we shall inform you about the use and application of this retention system when using the product as a seat in a motor vehicle.

## 27.2 Restraint systems

With the wheelchair restraint system, elements are designated that are used to secure the wheelchair in the vehicle. Persons in wheelchairs are secured using components of the occupant retention system (ORS). A comprehensive system for the optimum transportation of the wheelchair in the motor vehicle comprises both components. These are matched to one-another so that their forces are not transferred to another system.

Similar to the crash test performed, a suitable wheelchair and occupant restraint system consists of a 4-point wheelchair restraint system and a 3-point occupant restraint system.

Elements of the **wheelchair restraint system** include:

- Retractors consisting of 2 retractors at the front without hand tensioning wheel and 2 retractors at the rear with hand tensioning wheel (e.g. manufacturer Schnierle Safety Belts GmbH).



Figure 132: Front retractor "semi-automatic" with buckle and belt link



Figure 133: Rear retractor "semi-automatic" with hand wheel, buckle and belt link

The **occupant restraint system** comprises:

- Lap belt with lock (e.g. manufacturer Schnierle Safety Belts GmbH).



Figure 134: Hip strap with lock, the fittings for connecting the transport restraints and two belt links for the selective securing of the diagonal shoulder belt

- Diagonal shoulder belt with lock head (e.g. manufacturer Schnierle Safety Belts GmbH).



Figure 135: Automatic diagonal shoulder belt with deflector and buckle

- Headrest with padding including sturdy bracket.  
The use of a headrest is recommended, as it offers better protection during travel when used properly.

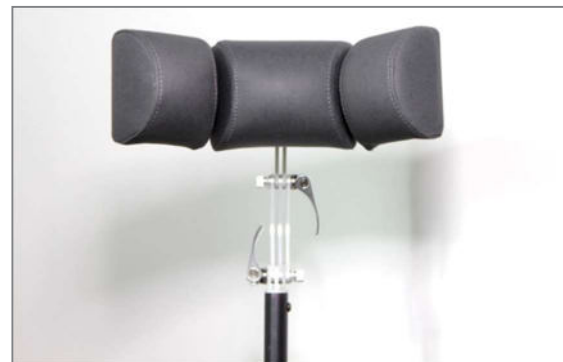


Figure 136: Headrest (example)



### 27.3 Marking

Wheelchairs tested according to ISO 7176-19 and approved for transporting passengers in motor vehicles are marked with the following karabiner symbol:



Figure 137: Karabiner symbol/sticker for a tested wheelchair approved for transporting passengers in motor vehicles

### 27.4 Fastening the wheelchair in the vehicle

Information about the fastening points for wheelchairs with and without transport restraint system is provided in the following.

Fastenings for wheelchairs **with transport restraint system**: the transport restraint system connections on the product (transport restraint system connection on the rear frame and bearing block intermediate plate) are marked with the above mentioned karabiner symbol.

- Transport restraint connection on the rear frame: A welded frame part can be used to attach the lap belt holder and the belt eye for connecting the rear retractor to the vehicle.

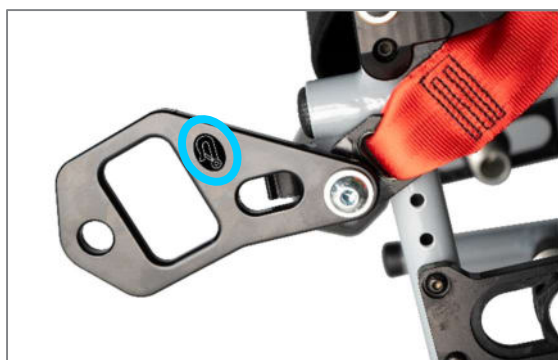


Figure 138: Transport restraint system attachment on the rear frame with belt eye for rear retractor and lap belt

- Bearing block intermediate plate with belt eye for mounting the front retractor



Figure 139: Caster wheel bearing block intermediate plate with belt eye for front retractor

Fastenings for wheelchairs **without transport restraint system**: The fastening points for loops are marked with the above described karabiner symbol. The wheelchair restraint system fasteners must be fastened exclusively in the marked locations and must always be attached symmetrically on both sides of the wheelchair. The figures show how the system is fastened on one side of the product.

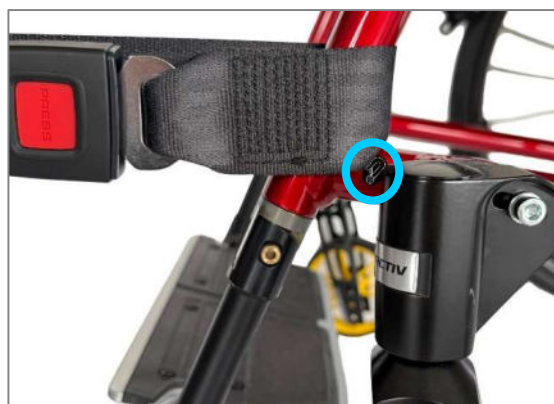


Figure 140: Symbol for front fastening and wheelchair loop at the front



Figure 141: Symbol for rear fastening and wheelchair loop at the rear

## 27.5 Handling instructions and positioning the wheelchair in the vehicle

The crash test according to ISO 7176-19 demands a frontal impact at 48 km/h and therefore represents only a part of the possible hazardous situations. Basically, all passengers must be seated on a standard vehicle seat with three-point seat belt. This is the safest possibility of transportation. If this cannot be implemented, the wheelchair as well as the passenger must be secured. The use of this retention system must be observed in the following guidelines and safety instructions.



The wheelchair must only be transported in the direction of travel in the vehicle, as it was tested facing forwards in the direction of travel according to ISO 7176-19.

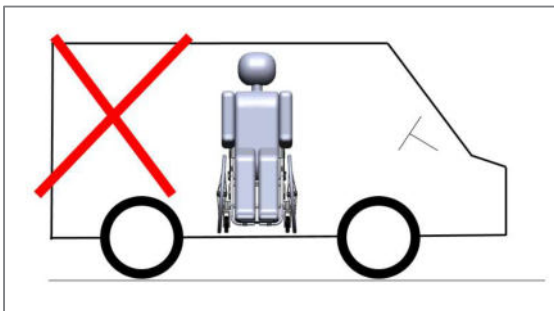


Figure 142: Incorrect positioning of the wheelchair in the vehicle

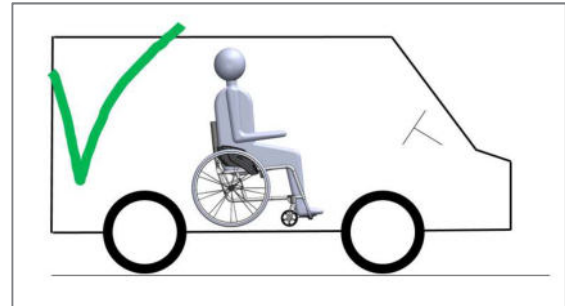


Figure 143: Correct positioning of the wheelchair in the vehicle

The two rear belts (retractors) must be arranged symmetrically and anchored at an angle of 30° to max. 45° from the horizontal on the vehicle floor. The two front belts must also be arranged symmetrically, and the angle from the horizontal must lie in the 40° to max. 60° range. The retractors for the front and rear must not be swapped.

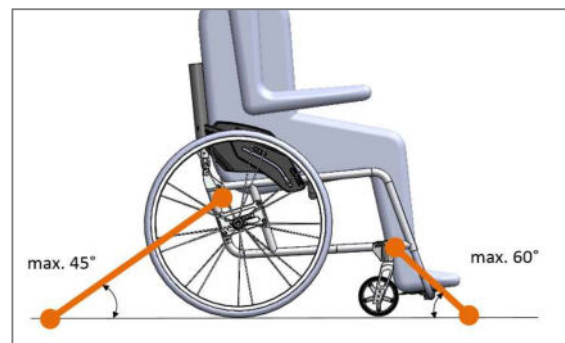


Figure 144: Run of the retractors at the front and rear with maximum tensioning angle and connecting points (view from the side)

The two rear belts must each be fastened symmetrically at a max. angle of 10° outwards from the vertical.

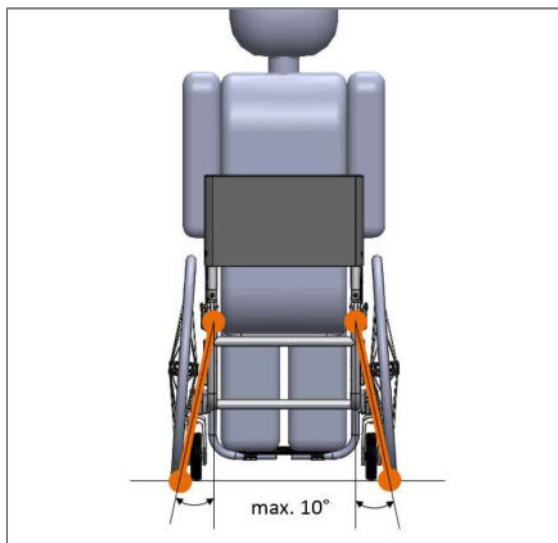


Figure 145: Run of the retractors at the rear with maximum tensioning angle and attaching points (view from the rear)

The two front belts must also each be fastened symmetrically at a max. angle of 25° outwards from the vertical.

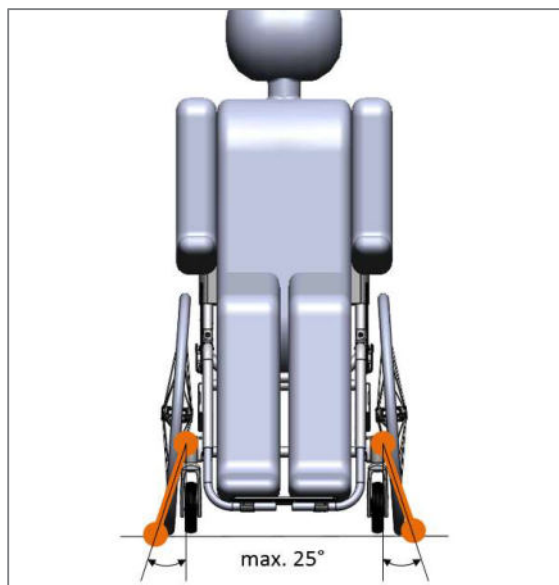


Figure 146: Run of the retractors at the front with maximum tensioning angle and attaching points (view from the front)

The user should be secured with both the lap belt and the diagonal shoulder belt in order to reduce the possibility of the head and chest impacting against vehicle components or other passengers and their wheelchairs.

The hip belt must rest tight against the body over the hip bone. It must be fastened so that, after closing, it runs at an angle of 30° to 75° from the horizontal when viewed from the side. A steeper angle is desirable (closer to 75°), but no higher under any circumstances. The belt must not be twisted and not run over the person's stomach.

The diagonal shoulder belt must run centrally over the collarbone (at an angle of max. 55° from the horizontal), must be a sufficient distance away from the neck and must lie tightly against the body.

The belts should lie as firmly as possible against the body without limiting the user's comfort. They may not be kept away from the body by parts of the wheelchair (armrests, side sections, clothing guard, etc.).

#### Recommendation:

The diagonal shoulder belt should be connected directly to the latch plate of the transport restraint system lap belt, not to the latch plate provided in the vehicle.

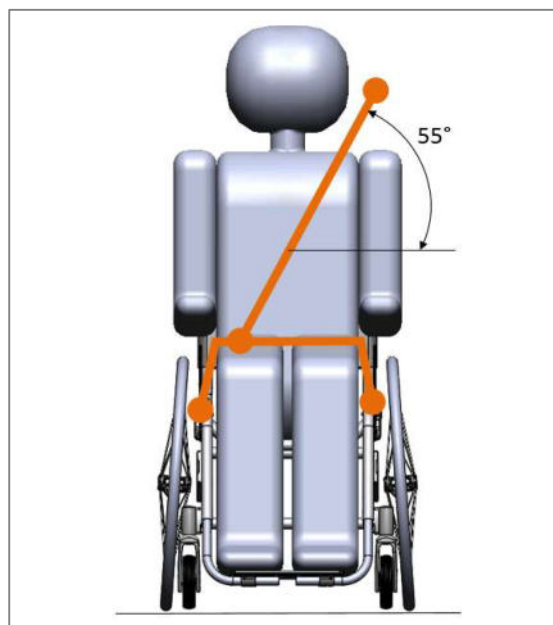


Figure 147: Run of the lap and diagonal shoulder belt with the respective connecting points (view from the front)

Adjustable-inclination backrests must be set to the most vertical position in order to ensure upright sitting.

The height and distance of the headrest to the head must be set so that the centre of gravity of the upright head is in the middle of the headrest and the distance between the head and headrest padding must be kept as little as possible (max. 2-3 cm).

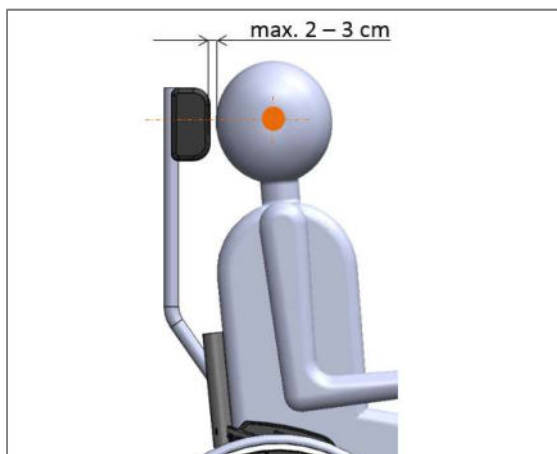




Figure 148: Setting a headrest with regard to the height and distance from the head


To ensure that the wheelchair user is adequately protected against collisions with vehicle parts and panels, the following clearances must be adhered to around him:


- To the front, at least 65 cm (95 cm for use of a lap belt without a diagonal shoulder belt) measured from the front edge of the head
- To the rear, at least 45 cm measured from the rear edge of the head
- Upwards, at least 120 cm for a small, female adult, or at least 155 cm for a large, male adult, each measured from the vehicle floor.


## 27.6 Safety instructions

 Belts must not be twisted and not run crossed-over.

 For belt systems (hip, diagonal shoulder belt, retractors), the instructions for use of the respective manufacturer must be observed.

 During transport, the parking brake of the product must be applied.


 Loose parts of the wheelchair (therapy tray, crutches, etc.) must be removed prior to the journey and stowed securely in the vehicle to prevent injuries to the vehicle occupants in the event of a collision.

 Wheelchairs and restraint systems that have been exposed to an impact must be replaced. They may no longer be used as a seat or for securing in motor vehicles.

## 28 Storage

When being stored, the product should be kept in a dry environment and covered up where possible.

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.

## 29 Transport

### 29.1 Securing handling of the product

When loading or transporting, the product can be held on the frame and on the back cross bar.



## 29.2 Passenger transport in motor vehicles


The transportation of persons in a wheelchair or other persons in the product in motor vehicles is only permitted when observing the equipment specified in chapter 27. In this case, observe the versions in chapter 27.


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

To reduce weight, individual components such as the caster forks with caster wheels and the drive wheels can be removed from the product for loading and stored separately. 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. 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. Bags, walking sticks, and other objects not belonging to the product which are on or in 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 tensioning straps used to fasten the product securely in the transport vehicle must only be attached to the motor vehicle components intended for that purpose and to the frame of the product.

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

## 29.4 Passenger transport over obstacles in the product

 If the product with its user needs to be transported over an obstacle and there are suitable facilities such as a ramp or a lift available, then these should be used. If such facilities are not available, then the obstacle is to be overcome by being carried by two helpers. When carrying the product, it may not be lifted by the side sections, the drive wheels or the footrests. PRO ACTIV recommends holding the product by the frame and the back cross bar to carry it.

The procedure with stairs is usually as follows:

### Climbing up stairs:


1. Two assistants carry the product with its user backwards up the stairs. The anti-tipping supports are in the passive position.
2. The assistant behind the product has the control. They tilt the product and have a firm grip on the back cross bar during the transport process.
3. The second helper at the front grips the product by the frame and lifts the product up one step at a time.
4. The helpers then move to the next step up and repeat the process until they reach the end.
5. The user can help the climb by rotating the handrim.

**Climbing down stairs:**

1. Two assistants carry the product with its user forwards down the stairs. The anti-tipping supports are in the passive position.
2. The assistant behind the product has the control. They tilt the product and have a firm grip on the back cross bar during the transport process.
3. The second assistant stands securely on a lower step and grips the product by the frame. They lift the product down one step by letting the drive wheels roll over the edge of the step.
4. The helpers then stand on the next step down and repeat the process until they reach the end.
5. The user can help the descent by breaking on the handrim.

### 30 Malfunctions

In the event of any malfunctions which 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.


### 31 Cleaning and care


Regularly cleaning the product is prescribed to prevent the components from becoming stiff due to soiling. 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 environmen-


tal influences. If this cannot be avoided, the product must always be cleaned immediately after such use, and moving parts must be greased. Regular cleaning prevents corrosion and increased wear.

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

 Clean the quick release axles of the drive and caster wheels as well as the ball bearings and grease these with a little lubricating oil with strong corrosion protection properties (e.g. Neoval MTO 300) approx. every 8 weeks in order to ensure reliable functionality.

 For suspension forks: The suspension fork must be cleansed no later than every four weeks as well as immediately after extreme uses (salt water, mud, etc.). After cleaning with soapy water, bicycle cleaner, or similar substances, all moving parts of the axle steering knuckle suspension and the spring element must be sprayed with lubrication oil with strong corrosion protection properties (e.g. Neoval MTO 300) and wiped with a soft cloth once the oil has soaked in. During the process, it is important to carefully clean and thoroughly oil the piston rod of the spring element inside the spring.

 Clean your product with water, solvent or neutral 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. Only use water and soap to clean the seat and backrest upholstery.

 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.


## 32 Maintenance


### 32.1 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 tyres, the tyres must be changed as 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 puncture-proofing is visible, the tyres must be changed as otherwise there is an increased risk of an accident.

 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 37 must be observed.

### 32.2 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):

- Check the tyres for damage, foreign bodies and any cracks that form.
- Check the tyre pressure and correct if needed (the tyre pressure should always be as printed on the tyre covers).
- Check the brakes (function, wear on brake pins).
- Clean and oil the pivot points of the brakes and check the ease of movement or actuation force of the brake levers.
- Check the function of the anti-tipping device.
- Check the stable stand of the seat and backrest upholstery.
- Check the tight fit of the fixing screws on the seat and back system.
- Check the function and ease of running of the quick release axles of the drive wheels and caster forks.

 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.

Inspections are always performed a year after the last inspection. The maintenance schedule can be found in the inspection lists in chapter 40.

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.

### 32.3 Proof of maintenance

To provide proof of the maintenance, you can use the inspection lists in chapter 40. Always keep all receipts/service reports as proof, and have any service work that has not been carried out by the manufacturer documented.

**Please bring these usage instructions/the service booklet along with you each time maintenance is performed.**

## 33 Disposal & recycling

At the end of the service life, the product can be returned to PRO ACTIV or your rehabilitation specialist dealer for disposal 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 text, you will find a description of the materials for the disposal and recycling of the product and its packaging:

**Aluminium:** Frame, rims, caster forks, brakes, back cross bar, side sections, clothing guard, armrest frame, footrest, footplate support, push handles

**Steel:** Fastening points, quick-release/screwed axles, push handles, anti-tipping supports, brakes, armrest frame, screws, nuts

**Plastic:** Handles, quick release levers, tube plugs, caster wheels, armrest padding, tyres, footplate support, side sections, brake lever, anti-tipping wheels, bags for packing

**Synthetic fibres and foam materials:** padding, covers

**Cardboard/paper:** Packaging

## 34 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 carried out on the product at PRO ACTIV or the rehabilitation specialist dealer. In addition to the instructions contained in chapter 31 (Cleaning and care), a thorough cleaning of all control elements must be carried out before using it again.

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. Export 4712) must be used for this, and the respective usage instructions for use of the disinfectant must be observed. In general, a complete disinfection cannot be guaranteed on the seams. We therefore recommend that you dispose of the seat and backrest upholstery.

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 such as the footrest, seat and back system can be adjusted or replaced using the modular system. In addition, the backrest angle is usually adjustable in seven stages, therefore enabling optimum adaptation.



### 35 Warranty

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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).

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 tyres of caster wheels & drive wheels, anti-tipping wheels, handles, brake pins, upholstery of seat and back systems, 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-authorised 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.

### 36 Liability

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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-authorised persons.
- Third-party parts have been installed or connected to the product or the product has otherwise been modified.

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

### 37 Appendix: Tightening torques, securing details and tools

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 (e.g., cylinder head screw)	Strength 10.9 (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 must be secured with "medium strength" thread-locking fluid (e.g. Weicon AN302-43), provided that no securing clamps are present on the screw connections or a lubrication instruction specifies the use of grease or copper paste.

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

Tool	Order number
<b>Adjustment bracket for the caster wheel bearing block</b>	E8000 901 000
<b>Special tool for setting the wheel position</b> Open-ended spanner AF 22/24 mm + 41 mm	E8000 900 025
<b>Tool set for PRO ACTIV wheelchairs</b> Mini high-pressure pump, open-ended spanner AF 8/10 + 10/13 30 mm, Allen key AF 2.5 + 6 mm, hexagon socket screwdriver with handle AF 3 + 4 + 5 mm	E8000 900 030
<b>Care kit for PRO ACTIV wheelchairs and handbikes</b> Assembly paste (dosing syringe 10 g), lubrication oil (spray 100 ml), thread lock, medium strength (pen system 10 ml), surface cleaner (spray 150 ml), terminal grease (tube 50 ml)	E8000 900 026

### 38 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:

☐ 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).

### 39 Appendix: Hand-over certificate

#### 39.1 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 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'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 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".



## 39.2 Check list for training the user

Topics	Completed/ fulfilled
All mechanical function control elements were explained and their function demonstrated.	
Use of the brakes was demonstrated and then performed by the user themselves and/or their assistant.	
Attention was drawn to the fact that it is a parking brake and not a service brake (except for drum brakes).	
Backrest angle adjustment and other backrest adjustment options were demonstrated and then tested by the user themselves and/or their assistant.	
The possible adjustments of the seating system were demonstrated and then tested by the user themselves and/or their assistant.	
Fitting and removing the clothing guard was demonstrated and then tested by the user themselves and/or their assistant.	
How the push handles are used and adjusted was demonstrated and then tested by the user themselves and/or their assistant.	
How the footrests work was demonstrated and then tested by the user themselves and/or their assistant.	
Use of the anti-tipping supports was demonstrated and then performed by the user themselves and/or their assistant.	
Removal and installation of the drive wheels and the caster forks (with quick-release axles) was demonstrated and then tested by the user themselves and/or their assistant.	
Repositioning the drive wheels from the standard position to the wheelbase extension sockets/extended wheel plate – if available – was demonstrated and then performed by the user themselves and/or their assistant.	
Test drive: Overcoming obstacles with the product, e.g. a kerb	
Test drive: Driving forwards and backwards on level ground and also up and down hills in the direction of travel, including slaloming around some obstacles	
Test: Operating the anti-tipping supports in front of an obstacle	
Information for care, cleaning and maintenance of the product (including quick release axles) have been provided and understood by the user and/or assistant.	
Information on the wheels with regard to inflation pressure and tread depth and checking the quick release axles have been provided and understood by the user and/or assistant.	
Information on regular checks of the brakes, anti-tipping supports and the seating and back system have been provided and understood by the user and/or 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.	

## 40 Appendix: Inspection lists

**Initial inspection:** After one year

Serial number: <b>SN</b> _____	OK / carried out	not OK	resolved
Check that all screws/fastening elements are firmly seated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clean and oil/grease all pivot points, quick release axles 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"/>
Functional/safety check of push handles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional/safety check of braking system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional/safety check of anti-tipping supports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional/safety check of the seat and back system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carry out a functional/safety check of the drive wheels and, if required, replace the tyres on the product	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check that the wheel tracking and drive wheel bushing are firmly seated (tightening torque 48 Nm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional/safety check of caster wheels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check the caster wheel axle for firm seating (tightening torque 7 Nm) and correct adjustment of the caster fork axle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional/safety check of footrests	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Test drive/functional test	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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**Comments:**

**Rehabilitation specialist dealer:**

\_\_\_\_\_  
\_\_\_\_\_

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

\_\_\_\_\_

**Stamp:**

\_\_\_\_\_  
Date/signature

All proof of inspection documents must be kept and submitted to PRO ACTIV in the event of warranty claims. Recommendation: Send the inspection list to PRO ACTIV as a PDF immediately after the inspection, so that it can be assigned to the serial number and is directly available in the event of claims.

**Subsequent inspection:** One year later after the last inspection or earlier following heavy use

Serial number: <b>SN</b> _____	OK / carried out	not OK	resolved
Check that all screws/fastening elements are firmly seated	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Clean and oil/grease all pivot points, quick release axles 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"/>
Functional/safety check of push handles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Functional/safety check of anti-tipping supports	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional/safety check of the seat and back system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carry out a functional/safety check of the drive wheels and, if required, replace the tyres on the product	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check that the wheel tracking and drive wheel bushing are firmly seated (tightening torque 48 Nm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Functional/safety check of caster wheels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Check the caster wheel axle for firm seating (tightening torque 7 Nm) and correct adjustment of the caster fork axle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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**First name and last name of contact:**

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**Comments:**

**Rehabilitation specialist dealer:**

\_\_\_\_\_  
\_\_\_\_\_

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

\_\_\_\_\_

**Stamp:**

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Date/signature

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Your rehabilitation specialist dealer:



**PRO ACTIV Reha-Technik GmbH**

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