



Discovery

EN Instructions for use (user) 3

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1 Foreword

INFORMATION

Last update: 2018-01-29

- ▶ Please read this document carefully before using the product.
- ▶ Follow the safety instructions to avoid injuries and damage to the product.
- ▶ Have yourself instructed by qualified personnel in the proper and safe use of the product.
- ▶ Please keep this document in a safe place.

INFORMATION

- ▶ New information regarding product safety and product recalls can be obtained from the Customer Care Center (CCC) at oa@ottobock.com or from the manufacturer's service department (see inside back cover or back page for addresses).
- ▶ You can request this document as a PDF file from the Customer Care Center (CCC) at oa@ottobock.com or from the manufacturer's service department (see inside back cover or back page for addresses). It is possible to increase the display size of the PDF document.
- ▶ For further questions about the instructions for use, please contact the qualified personnel who issued the product to you.

You have purchased a high-quality product which can be put to versatile, daily use at home and outdoors.

In order to exclude injuries of any type, familiarise yourself with the handling, functions and use of the product before using it. These instructions for use provide the necessary information.

Please note the following in particular:

- All users must be instructed in the use of the product by qualified personnel or an attendant (person who operates and pushes the product) with the help of these instructions for use.
- Attendants should also be instructed in the use of the product by qualified personnel with the help of these instructions for use.
- The product has been adapted to the needs of the user. Further changes may be made only by qualified personnel. We recommend checking the product settings regularly in order to assure an optimum fit over the long term. For growing children and youths in particular, fitting should be performed every six months.
- In case of questions or problems, please consult the qualified personnel that adapted the product or the manufacturer's service (see inside back cover or back page for addresses).
- The product may be combined only with the options listed here. The manufacturer assumes no liability for combinations with third-party medical devices and/or accessories not included in the modular system. Please also observe the information in the section "Liability".
- Service and repairs to the product may only be carried out by qualified personnel. If you have any problems, please contact your specialist dealer. This ensures that any necessary repairs will be made exclusively with Ottobock spare parts.
- Your product may differ from the models shown. In particular, not all the options described in these instructions for use will be installed on your product.
- The manufacturer reserves the right to make technical changes to the model described in these instructions for use.

2 Product description

2.1 Function

The Discovery mobility base for seating shells is intended exclusively for the adaptation of orthopaedic seating systems (e.g. seating shells) for people who are unable to walk or have walking impediments. It can be operated either by the user or by an attendant. The product can be used indoors and outdoors.

The Discovery mobility base for seating shells was developed especially for the adaptation of modular seating systems. It is fully adjustable to provide for individual adaptation to the needs of the user.

The product may only be used with the options which are listed in the product order form.

Ottobock assumes no liability for combinations with medical devices and/or accessories from other manufacturers not included in the modular system.

2.2 Product overview

2.2.1 Discovery Standard



1	Release lever / Bowden cable for seat tilt	9	Caster wheel
2	Back frame	10	Drive wheel
3	Arm support (optional)	11	Wheel lock (knee lever wheel lock)
4	Seat frame / seat bars	12	Gas compression spring / locking mechanism for seat tilt
5	Interface adapter	13	Release strap for back angle adjustment
6	Pivot point for seat tilt	14	Brake lever / Bowden cable for drum brake (optional)
7	Lashing point	15	Push handle
8	Main frame		

2.2.2 Discovery for Leckey KIT seat & Leckey Mygo Max (HR32040450)



1	Push handle	8	Drive wheel
2	Release lever / Bowden cable for seat tilt	9	Anti-tipper (deactivated)
3	Back frame	10	Caster wheel
4	Release strap for back angle adjustment	11	Reinforced main frame
5	Gas compression spring / locking mechanism for seat tilt	12	Pivot point for seat tilt
6	Lashing point	13	Interface adapter for Leckey KIT seat & Mygo Max
7	Wheel lock (knee lever wheel lock)	14	Seat frame / seat bars

The Discovery for Leckey KIT seat & Leckey Mygo Max (HR32040450) is a preconfigured version of the Discovery mobility base for seating shells with the following special features:

- Reinforced frame
- 450 mm frame width
- Interface adapter for Leckey KIT seat & Mygo Max
- Push handles, long
- Knee lever wheel lock
- Tip-assist
- Anti-tipper

See the section "Use" for more information.

2.2.3 Discovery with Care Chair equipment version



1	Head support (optional)	10	Caster wheel
2	Release lever / Bowden cable for seat tilt	11	Main frame
3	Back frame with back support padding	12	2 x anti-tipper
4	Arm support with pad (optional)	13	Drive wheel
5	Clothing guard with pad (optional)	14	Gas compression spring / locking mechanism for seat tilt
6	Legrests (optional)	15	Release strap for back angle adjustment
7	Seat frame with seat plate and seat cushion	16	Brake lever / Bowden cable for drum brake (optional)
8	Pivot point for seat tilt	17	Push bar (optional)
9	Lashing point		

The Discovery Care Chair is a configurable equipment version of the Discovery mobility base for seating shells. The following options are available:

- Seat plate with seat cushion
- 600 mm back height with deep back support bracket
- Adjustable back straps with back support pad
- Head support
- Additional upholstery covers

See the section "Use" for more information.

2.2.4 Custom fabrication version with 22"/24" drive wheels



1	Release lever / Bowden cable for seat tilt	8	Wheel lock (knee lever wheel lock, optional)
2	Back frame	9	Caster wheel
3	Seat frame / seat bars	10	Drive wheel with push ring
4	Legrests (optional)	11	Anti-tipper (deactivated)
5	Interface adapter / seat plate	12	Gas compression spring / locking mechanism for seat tilt
6	Pivot point for seat tilt	13	Brake lever / Bowden cable for drum brake (optional)
7	Main frame	14	Push handle

This custom fabrication version is a customer-specific adaptation of the Discovery mobility base for seating shells for self-propelling users carried out by Ottobock's Custom Fabrication department.

3 Safety

INFORMATION

All safety instructions in this document apply to the user and/or the attendant.

The attendant must be physically and mentally able to operate the product and understand the instructions for use.

3.1 Explanation of warning symbols

WARNING Warning regarding possible serious risks of accident or injury.

CAUTION Warning regarding possible risks of accident or injury.

NOTICE Warning regarding possible technical damage.

3.2 Safety instructions for use

Hazards due to incorrect behaviour of the attendant

⚠ WARNING

Unsupervised parking

Falling out, falling of the user due to neglect of the duty to supervise

- ▶ Never leave the user unattended, not even when the positioning belts or safety belts are secured and the wheel locks are activated.

⚠ WARNING

Impermissible use

Tipping over, rolling over of the user due to failure to observe specifications

- ▶ Using the rehab buggy beyond normal conditions can be dangerous.
- ▶ Please note that this product is not suitable for jogging, running, skating, etc.
- ▶ Do not exceed the max. load capacity (see Page 55).

Hazards during preparation for use

⚠ WARNING

Improper handling of packaging materials

Risk of suffocation due to neglect of the duty to supervise

- ▶ Packaging materials must be kept out of the reach of children.

⚠ WARNING

Independent modification of settings

Serious injuries to the user due to unallowable changes to the product

- ▶ Do not modify the settings established by the qualified personnel. Only the settings described in the section “Use” in these instructions for use may be adjusted independently.
- ▶ In case of problems with the settings, please contact the qualified personnel who fitted your product.
- ▶ Discuss all changes to the settings with the qualified personnel/therapist in advance in order to minimise health hazards and avoid putting the therapy results at risk.

⚠ WARNING

Settings outside the safety limits

Tipping over, falling due to adjustment errors because of failure to observe the physical/psychological requirements of the user

- ▶ In certain versions and with certain settings, the product tends to tip backwards due to its design. This is an intentional feature designed to enable users with the corresponding physical prerequisites to manoeuvre quickly and nimbly.
- ▶ Users with the necessary physical and psychological preconditions can be supplied with such versions/settings. If the physical/psychological preconditions change, the product may no longer be used with these settings. Inform the responsible qualified personnel immediately in this case.

⚠ WARNING

Improper assembly of removable wheels

Tipping, falling over of the user due to wheels coming off

- ▶ After each assembly, verify the proper fit of the removable wheels. The quick-release axles must be firmly locked in the wheel attachment.

⚠ WARNING

Lack of maintenance

Severe user injuries, damage to the product due to maintenance errors

- ▶ Check the adjustment functions for visible signs of damage at least **1 x per month** and ensure all screw connections are tight.

⚠ CAUTION**Uncontrolled driving behaviour, unexpected sounds or odours**

Falling, tipping, collision with persons or nearby objects due to defects

- ▶ If any faults, defects or other hazards that can lead to personal injury are detected, the product must be taken out of service immediately. This includes uncontrolled movements as well as sounds that are unexpected or previously not noted or odours that deviate significantly from the state of the product at the time of delivery.
- ▶ Please contact your authorised dealer.

INFORMATION

While installing add-on drives on the product is generally not permitted, it can be reviewed by our Custom Fabrication department on request.

Hazards when getting in**⚠ CAUTION****Unallowable use with more than one user**

Tipping over, falling due to user error

- ▶ The product is designed for one person. No other persons may be present on the product.

⚠ CAUTION**Incorrect handling when getting in**

Tipping over, falling due to incorrect handling

- ▶ Activate the wheel lock each time before you get into, out of, or transfer to or from the product.
- ▶ Fold up the footplates before getting in.
- ▶ Never step on the footplates when getting in and out.
- ▶ Do not support yourself on the wheel lock when getting in/out.

⚠ CAUTION**Loss of stability**

Tipping, falling due to additional objects on the product

- ▶ Do not attach additional objects to the frame, cross tubes or seat.

Risk of hand injuries**⚠ CAUTION****Pinching on components**

Crushing and pinching of fingers due to lack of caution in danger areas

- ▶ When using the seat tilt feature, do not reach between the seat bar and frame.
- ▶ Do not reach between the drive wheel and wheel lock.
- ▶ Do not reach into the spokes of the rotating wheels.
- ▶ Do not reach between the seating shell interface and interface adapter of the mobility base for seating shells. Only grip by the specified components when detaching or mounting a seating unit.
- ▶ Do not reach between the moving frame components when adjusting the back angle.
- ▶ Avoid pinching when moving/locking the legrests.
- ▶ Avoid pinching on the armrests, clothing protector or frame components.
- ▶ Do not reach into openings on frame components.

⚠ CAUTION**Heat development when braking with push rings (with custom fabrication version with 22"/24" drive wheels)**

Burns due to insufficient hand protection

- ▶ Wear wheelchair gloves when travelling at high speeds.

Hazards while driving

⚠ WARNING

Decreased ground clearance with long lower leg lengths and low seat height

Tipping over, falling due to getting caught on obstacles

- ▶ Please note that the ground clearance could fall below the required minimum of **40 mm** depending on the selected settings for the lower leg length and the front seat height.
- ▶ Adjust your driving to the reduced ground clearance and exercise particular caution with obstacles on the ground e.g. steps, curbs and thresholds.

⚠ CAUTION

Improper use of the wheel lock

Falling due to abrupt braking, rolling away of the product, crushing of hands

- ▶ Do not use the wheel lock (knee lever wheel lock) when travelling.
- ▶ Always engage the wheel lock on both sides.
- ▶ Apply the wheel lock to prevent the product from moving when it is parked on uneven ground or during transfers (e.g. into a car).
- ▶ Do not reach between the rear wheel and wheel lock.
- ▶ Ensure that the wheel lock is properly adjusted (approx. **5 mm [2"]** gap to the tyres, technical changes reserved).
- ▶ Maintain sufficient air pressure in pneumatic tyres.

⚠ CAUTION

Lack of driving experience

Tipping over, falling due to errors in handling the product

- ▶ Practise on level, open ground first.
- ▶ Learn with the support of an assistant how the product reacts to changes in centre of gravity, e.g. downward or upward slopes, inclines or when overcoming obstacles.
- ▶ Always activate the anti-tipper (except when crossing obstacles).

⚠ CAUTION

Incorrect centre of gravity

Tipping over, overturning due to incorrect centre of gravity

- ▶ When reaching for objects, the user must not lean too far out of the seat.
- ▶ Put the seat tilt into neutral position (0–5°) before negotiating slopes and obstacles on slopes or ramps.
- ▶ Always provide support to the rear when negotiating slopes and obstacles on slopes or ramps.
- ▶ Do not move the product with a negative seat angle setting (seat tilted forward).
- ▶ Never park the product on slopes with the user in the seat.

⚠ CAUTION

Risky operation

Falling, tipping over backwards due to approaching obstacles incorrectly

- ▶ Push slowly when crossing obstacles (e.g. steps, curbs) and negotiating uphill or downhill slopes and inclines.
- ▶ Never cross obstacles at an angle. Always approach obstacles head on (at an angle of 90°).
- ▶ Raise the front wheels before crossing obstacles.
- ▶ Avoid collisions with obstacles and dropping off curbs/ledges.
- ▶ Avoid riding cross-country.

⚠ CAUTION**Driving in the dark**

Risk of collisions with other traffic participants due to lack of lighting

- ▶ Wear bright clothing or clothing with reflectors.
- ▶ Install active lighting on your product.
- ▶ Ensure that the reflectors on the product are clearly visible.

⚠ CAUTION**Incorrect handling at level crossings**

User may fall or tip over due to driving error

- ▶ Never go over a level crossing diagonally, but always at a right angle to the tracks. If you travel diagonally, the casters of the product may get caught in the tracks.
- ▶ Only cross railway systems and railway tracks in the designated areas.
- ▶ Stop before the level crossing and check to the left and right to make sure it is safe to cross.

⚠ CAUTION**Lack of tipping resistance on public transport**

Tipping over, falling of the user, damage to the product due to incorrect positioning of the wheelchair

- ▶ Always observe currently applicable legal requirements when using public transport.
- ▶ Always ensure that you are held in place securely when travelling on public transport. To do so, use the wheelchair areas, wheelchair bays and restraint systems provided. Firmly tighten the wheel locks.
- ▶ Please note that the anti-tipper, if activated, may be exposed to heavy loads when the public transport vehicle starts to move. In order to avoid damage, the manufacturer recommends that the wheelchair is positioned at a right angle to the direction of travel if no restraint system for passengers with reduced mobility is available.

Hazards during seat tilt operation (seat angle adjustment)**⚠ CAUTION****Incorrect seat tilt handling**

Tipping over, falling out of the seating shell / seating system due to errors in handling the product

- ▶ Before operating the seat tilt feature (seat angle adjustment), practise without the seated user.
- ▶ Only operate the seat tilt feature on a level, firm surface.
- ▶ Always activate the anti-tipper before operating the seat tilt feature (seat angle adjustment).
- ▶ Lower the seat tilt (horizontal neutral position of the seat) before negotiating slopes and obstacles. It is advisable to slightly tilt the seat to the rear when driving downhill.
- ▶ Only negotiate slopes where the holding forces remain manageable.
- ▶ Never use the release lever to operate the seat tilt feature (seat angle adjustment) in an uncontrolled manner.
- ▶ When activating the release lever, always secure the user against falling out to the front or rear. Keep a firm grip on the push handles while activating the locking pedal until the adjustment system audibly engages on both sides.
- ▶ Do not reach into the adjustment mechanism when using the seat tilt.
- ▶ Avoid getting caught in the Bowden cable as this can result in release of the seat tilt feature.

Hazards when overcoming obstacles**⚠ WARNING****Negotiating stairs and obstacles**

Tipping over, falling of the user due to failure to observe transportation instructions

- ▶ Only negotiate stairs and obstacles with the help of additional attendants.
- ▶ Use available equipment (e.g. ramps or lifts).
- ▶ If such equipment is not available, seek assistance when carrying over stairs and obstacles.
- ▶ Never use escalators with a user in the product.

⚠ WARNING

Driving on slopes, over obstacles

Falling, tipping over due to user error

- ▶ Only cross obstacles or negotiate ascents or descents that are within the permitted maximums. For more information, see the section "Technical data" (see Page 55).
- ▶ Do not cross over any obstacles while ascending or descending inclines.
- ▶ Before negotiating slopes or crossing obstacles, the seat tilt must be lowered (horizontal neutral position of the seat). It is advisable to slightly tilt the seat to the rear when driving downhill.
- ▶ Only negotiate slopes where the holding forces remain manageable.
- ▶ Approach obstacles at right angles and drive over them at one go.
- ▶ When tipping on the rear wheels / drive wheels, always secure the user towards the rear.
- ▶ Avoid getting into or out of the product on inclines and slopes.
- ▶ Do not drive on stairs.

⚠ WARNING

Improper lifting by attendants

Tipping over, falling of the user due to lifting by removable components

- ▶ Only lift the product by firmly mounted components (e.g. main frame, push handles).
- ▶ Be sure that the clamping levers of the height-adjustable push handles are firmly tightened.

⚠ WARNING

Improper use of the anti-tipper by attendants

Tipping over, falling of the user due to improper operation of a safety device

- ▶ **Only for Discovery Care Chair version with 12"/22"/24" rear wheels:** Make sure that the anti-tipper installed on both sides is always activated, except when negotiating high curbs or steps. Depending on the seating centre of gravity setting, large or unmanageable holding forces can be required when the anti-tipper is deactivated (especially when going up slopes).
- ▶ **For all other Discovery versions with 12"/22"/24" rear wheels and anti-tipper:** Only deactivate the anti-tipper before negotiating high curbs or steps so that it cannot strike the obstacle since this could damage it. Activate the anti-tipper again afterwards.
- ▶ The anti-tipper has to engage audibly prior to use. Verify its firm fit.
- ▶ If you believe the anti-tipper needs to be adjusted, please contact the qualified personnel that adapted the product.

Hazards due to incorrect air pressure and defective tyres

⚠ CAUTION

Incorrect air pressure

Uncontrolled driving characteristics, falling, tyre rupture due to incorrect inflation

- ▶ Maintain sufficient air pressure in pneumatic tyres. Do not exceed the permitted specifications when filling the tyres (see Page 55).
- ▶ Do not use the product with over/under-inflated or unequally inflated tyres.
- ▶ Note that a single tyre with low air pressure can lead to uncontrolled driving characteristics.
- ▶ Note that low pressure of the rear wheels / drive wheels can reduce the braking force of the knee lever wheel lock.

⚠ CAUTION

Defective tyres

Accidents/falling due to poor traction, reduced braking force or lack of manoeuvrability

- ▶ Ensure that the tyres have sufficient tread depth.
- ▶ Ensure that the knee lever wheel lock is properly adjusted (approx. **5 mm** gap to the tyres, technical changes reserved).

Hazard in case of broken skin

⚠ CAUTION

Prolonged contact with broken skin

Reddening of the skin or pressure points due to contamination with germs or incorrectly adapted seat cushion

- ▶ Check before using the product that the skin is not broken in areas subject to prolonged pressure (e.g., buttocks, back and rear side of the thighs).
- ▶ In case of problems, please contact the qualified personnel who adjusted the product.
- ▶ No liability is assumed for injuries caused by the use of the product with broken skin.

Hazards due to fire, heat and cold

⚠ WARNING

Improper handling of ignition sources

Risk of severe burns due to seat cushions, padding and upholstery catching on fire

- ▶ The seat cushions, padding and covers fulfil the normative requirements for flame resistance. However, they may still ignite if fire is handled improperly or negligently.
- ▶ Keep away from all ignition sources, especially lit cigarettes.

⚠ CAUTION

Extreme temperatures

Hypothermia or burns through contact with components, failure of components

- ▶ Do not expose the product to any extreme temperatures (e.g. direct sunlight, sauna, extreme cold).

Hazards due to improper use of the product

⚠ WARNING

Overloading

Severe injuries if the product tips over due to overloading, damage to the product

- ▶ Do not exceed the maximum load capacity (see the nameplate and section "Technical data").
- ▶ Please note that certain options and add-on components will reduce the remaining load capacity.

⚠ WARNING

Exceeding the service life

Serious injuries due to failure to observe the manufacturer's requirements

- ▶ Using the product beyond the specified expected service life (see Page 54) leads to increased residual risk and should only take place subject to the due diligence and deliberations of qualified personnel.
- ▶ If the service life is reached, the user or a responsible attendant should contact the qualified personnel who fitted the product or the manufacturer's servicing department (see inside rear cover or back page for address). Here the user can obtain information about known risks and the current options for refurbishing the product.

NOTICE

Use under incorrect environmental conditions

Damage to product due to corrosion or abrasion

- ▶ Do not use the product in salt water.
- ▶ Also avoid – if possible – sand or other dirt particles that may damage the wheel bearings.

NOTICE

Wear of seat cushions, padding and upholstery

Loss of functionality due to prohibited continued use

- ▶ Have the seat cushions, padding and upholstery replaced promptly in case of damage.

Additional information

INFORMATION

Even in the event of compliance with all applicable guidelines and standards, alarm systems (e.g. in department stores) may respond to your product. Should this happen, remove your product from the area where the alarm was triggered.

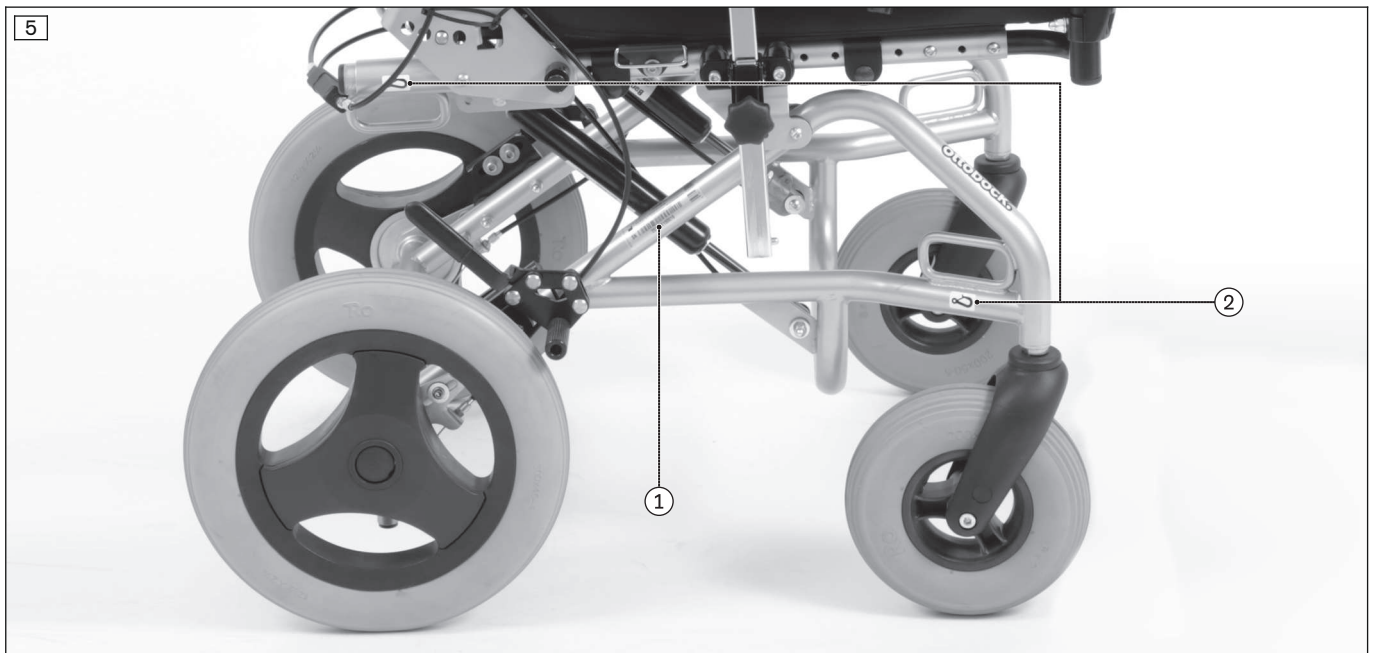
INFORMATION

Replace the drive wheels in case of tyre damage (tread surface extends up to **5 mm** to the edge of the tyre, cracking) or damage on the rim. The 12" wheel of the transfer version is replaced in the same way.

3.3 Nameplate and warning labels

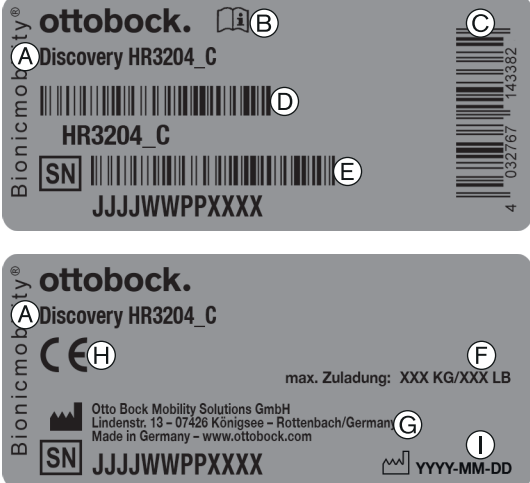

3.3.1 Signage on the product

The warning signs and nameplates are attached to the product at the following mounting points:



1	Nameplate
2	Fixation point / anchor point to attach the product in vehicles for transporting persons with reduced mobility


3.3.2 Nameplate

Label	Meaning
 <p>The nameplate is located on the right connecting tube of the main frame.</p>	A Type designation (including product reference number)
	B Read the instructions for use before using the product.
	C European article number (EAN)
	D Product reference number
	E Serial number*
	F Maximum load capacity (see section "Technical data")
	G Manufacturer information/address/country
	H CE marking – product safety in accordance with EU directives
	I Manufacturing date**
	If the adjacent symbol appears on the nameplate, this indicates the following: The mobility base for seating shells may not be used as a seat in vehicles for transporting persons with reduced mobility.

* JJJJ = year of manufacture; WW = week of manufacture; PP = production site; XXXX = sequential production number

** YYYY = year of manufacture; MM = month of manufacture; DD = day of manufacture

3.3.3 Warning labels

Label	Meaning
	Fixation point/eyebolt to attach the product in vehicles for transporting persons with reduced mobility

4 Delivery

4.1 Scope of delivery

The product is generally delivered fully assembled.

Only for custom fabrication models with 22"/24" drive wheels: The product is generally delivered fully assembled and with the drive wheels removed.

The scope of delivery includes:

- Preassembled mobility base for seating shells
- 2 rear wheels / drive wheels (screwed or plug-on)
- Options according to the order
- Instructions for use (user)

The seating shell / seating system is adapted to the mobility base for seating shells on site by the qualified personnel making the delivery.

4.2 Standard equipment

Standard equipment includes:

- Seat frame, seat tilt up to 35° via gas compression spring
- Back, back inclination from 0° to 30°
- Push handles

- Rear wheels: 12" PU
- Caster wheels: 8" PU in caster forks with threaded axle

4.3 Options

The basic equipment may have been adapted to the needs of the user by adding options. For use of these options: see Page 19 ff.

4.4 Storage

4.4.1 Storage during daily use

The product must be stored in a dry place.

4.4.2 Storage during extended disuse

The product must be stored in a dry place. An ambient temperature between **-10 °C and +40 °C** should be maintained during extended storage.

It is not necessary to disassemble or fold up the product.

During extended storage, the knee lever wheel lock on products with PU tyres (= tubeless tyres) must be released since tyre deformation may otherwise result.

Note regarding the tyres

- Tyres contain chemical substances that can react with other chemical substances (such as cleaning agents, acids, etc.).
- Direct exposure to sunlight or UV radiation causes the tyres to age more quickly. As a result, the tread surface hardens and corner pieces break out of the tread.
- Avoid unnecessary parking outdoors. The tyres should be replaced every 2 years regardless of wear and tear.

5 Preparation for use

5.1 Assembly

WARNING

Improper adaptation of third-party seating systems

Falling, tipping over, serious injuries due to incorrect installation

- ▶ The safe adaptation of a third-party seating system is the sole responsibility of the qualified personnel providing the fitting. The qualified personnel must complete these tasks according to the manufacturer's specifications.
- ▶ Have yourself instructed in the safe adaptation of the third-party seating system.
- ▶ Ottobock assumes no liability in case of problems with third-party seating systems.

WARNING

Failure to verify readiness of use prior to putting into operation

Falling, tipping over, serious injuries due to incorrect adjustment or installation

- ▶ Before you start using the product for the first time, check the chosen product settings with the support of qualified personnel.
- ▶ After every assembly of drive wheels with a quick-release axle, check that they are properly mounted. The quick-release axles must be firmly locked in the drive wheel attachment.
- ▶ Check the seating position centre of gravity. It must be set so that activating the seat tilt release lever allows the seat to be adjusted easily. Contact the qualified personnel if necessary.
 - Centre of gravity too far forward: The user could tip forward when the seat is tilted.
 - Centre of gravity too far back: The user could tip backwards when the seat is tilted.
- ▶ In particular, verify tip resistance, easy operation of the wheels and correct brake functionality.
- ▶ For pneumatic tyres: Check the tyre pressure. For correct air pressure: see Page 55 ff. Ensure that the pressure is the same in both tyres.
- ▶ Verify that the knee lever wheel lock settings are correct (**approx. 5 mm** gap to the tyre, technical changes reserved).

A few simple steps are sufficient to prepare the product for use:

- 1) If present: Remove the transport locks and packaging material.

INFORMATION: Save the packaging in case transportation is subsequently required.

- 2) For plug-on drive wheels: Attach the wheels to the drive wheel attachments (see fig. 32). The quick-release axles must not be able to be removed after the pushbutton has been released.
- 3) Mount the seating shell/seating system:
 - **Ottobock Shape System:** Mounted prior to delivery by the qualified personnel that adapted the mobility base for seating shells.
 - **Seat plate:** Secure the seat cushion against sliding by pressing it onto the hook-and-loop fastener.
 - **Discovery Care Chair back padding:** Press the back padding onto the back straps with the double sided hook-and-loop strips at the desired height and secure it against sliding.
 - **Seating systems from other manufacturers:** Mounted according to the individual specifications of the qualified personnel.



6 Use

6.1 Techniques for using a wheelchair

Information and practical tips on fundamental techniques for using the wheelchair can be found in the brochure "Techniques for using a wheelchair" supplied with the product.

Should the brochure not be included with the product, it can be ordered under reference number 646D60. Further information on obtaining the brochure can be provided by the qualified personnel supplying the wheelchair or by Ottobock Service (addresses: see back inside cover or back cover).

6.2 Further instructions for use

- Attaching loads (e.g. backpacks) can adversely affect stability. Therefore, suspending additional loads on the product is not permitted. Use the storage bag if necessary (option, see Page 46). Observe the maximum load capacity of the storage bag.
- The recommended overall width for manual wheelchairs in an operational state is **700 mm**. This specification should ensure unhindered use of escape routes, for example. Please note that the product dimensions can exceed the recommended value in versions with very large seat widths (for more information see see Page 55 ff.).
- The products in this series generally meet the minimum technical requirements for wheelchairs transportable by train. However, please note that it is possible that not every individual product will fulfil the minimum requirements due to the variation in designs (please see see Page 58 for further details).
- The recommended overall width for manual wheelchairs or comparable products in an operational state is **700 mm**. This specification should ensure unhindered use of escape routes, for example. Please note that the product dimensions can exceed the recommended value in versions with very large seat widths (for more information see see Page 55 ff.).

6.3 Settings and assembly instructions

⚠ WARNING

Incorrect settings

Tipping, falling or malposition of the user due to incorrect adjustment or installation

- ▶ Only the settings described in these instructions for use may be implemented.
- ▶ For all changes to settings not described in these instructions for use, contact the qualified personnel that adapted the product.
- ▶ Users or attendants are not supposed to remove/install components of the product.

6.4 Getting in and transferring

⚠ WARNING

Neglecting the duty to supervise

Falling, falling out of the user due to unsupervised parking

- ▶ Never leave the user unattended, not even when the safety belts are secured and the wheel locks are activated.

⚠ CAUTION

Lack of experience with getting in

Tipping over, falling out of the product due to user error

- ▶ Always practise getting into the product and transfers by the user in the presence of an additional helper.
- ▶ Always secure the product for getting in and transfers by activating the wheel lock.

⚠ CAUTION

Incorrect handling when getting in

Tipping over, falling due to incorrect handling

- ▶ Activate the wheel lock each time before you get into, out of, or transfer to or from the product.
- ▶ Fold up the footplates before getting in.
- ▶ Never step on the footplates when getting in and out.
- ▶ Do not support yourself on the wheel lock when getting in/out.

⚠ CAUTION

Incorrect caster wheel position when leaning forward in the product

Tipping over, falling due to incorrect caster wheel positioning

- ▶ Prior to activities that require bending forward in the product (e.g. getting in, tying shoes), maximise the stability of the product.
- ▶ In order to do so, push the product backwards until the caster wheels turn forward.

⚠ CAUTION

Overloading

Severe injuries if the wheelchair tips over due to overloading, damage to the product

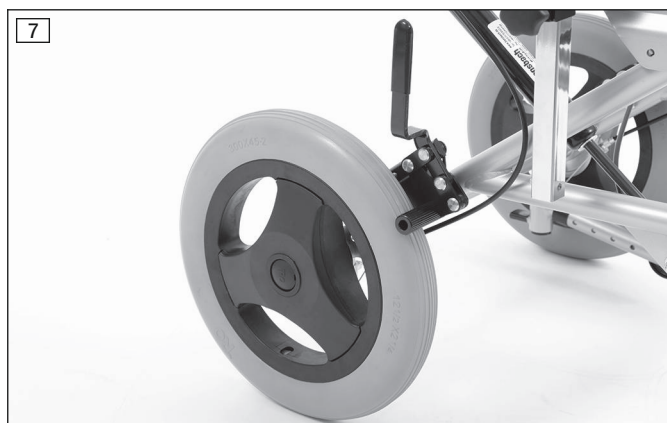
- ▶ Do not exceed the max. load capacity (see Page 55).
- ▶ Do not attach additional objects to the frame, cross tubes or seat.

Getting in / transferring into the mobility base for seating shells with seating shell / seating system is described below.

The mobility base for seating shells is designed for people who normally cannot get into it by themselves. Getting in / transferring is therefore described with the support of a helper.

- 1) Bring the mobility base for seating shells with seating shell / seating system as close as possible to the chair/bed.
- 2) Engage the knee lever wheel locks or drum brakes on both sides of the mobility base for seating shells (see fig. 7, see fig. 8; see Page 28).
- 3) **Optional:** Fold up the footplates and swing them away if necessary (see fig. 9, see fig. 10; see Page 33).
- 4) Bring the seat into a horizontal position (see Page 22).
- 5) Carry out the transfer into the mobility base for seating shells with seating shell / seating system from the front:

- **INFORMATION: Find the most suitable method by practising with the user. If possible, use a transfer aid (lifter, transfer board).**
 - If the user does not have the necessary physical abilities due to the disability, an attendant should support the user.
 - After gripping frame components or the armrest, the user may be able to pull him or herself onto the seat independently or support the transfer.
- 6) **Optional:** Fold the footplates down, position the feet on the footplates and secure them if necessary.
- 7) Release the knee lever wheel locks or drum brakes.
- The mobility base for seating shells with seating shell / seating system can now be used.



6.5 Seat / seating system (option)

6.5.1 Using various seating systems (options)

The product can be equipped with various seating systems:

- Ottobock Shape System: seating shell with seat adapted to the body
- Lecky KIT or Mygo Max seating system (only with Discovery version HR32040450)
- Lecky Mygo seating system (only with 400 mm frame width)
- Lecky Squiggles seating system (only with 360 mm frame width)
- Seat plate with seat cushion and back padding (see Page 42)
- Seating systems from different manufacturers (Horacek, Dräger, R82/Atoform, InterCo, Ortho-Seat, ...) or custom fabrications

All seating system settings have already been adapted to the needs of the user by the qualified personnel when the product was delivered.

When the product is handed over to the user, the qualified personnel instructs the user in the use of the chosen seating system.

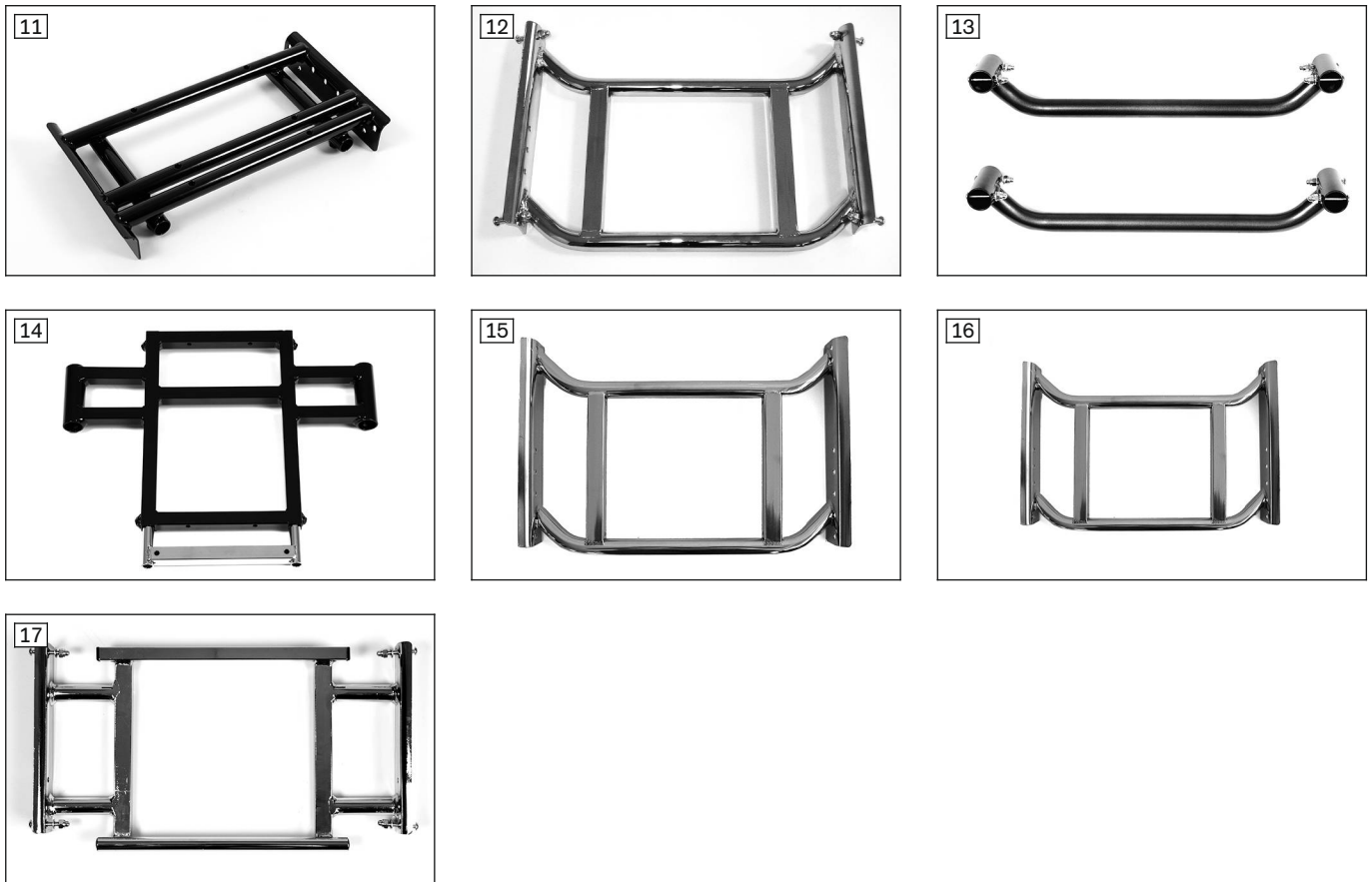
6.5.2 Using various interface adapters (options)

The product can be fitted with one of the following interface adapters for attaching a seating system:

- Trapezoid adapter (see fig. 11)
- Parallel adapter (see fig. 12)
- Universal adapter (crossbars) (see fig. 13)

- "Shape/Moss" type (see fig. 14)
- "Leckey Mygo" type (see fig. 15)
- "Leckey Squiggles" type (see fig. 16)
- "Dräger" type (see fig. 17)

Alternatively, the product can also be equipped with a seat plate without interface adapter (see Page 42).



6.5.3 Adjusting the seat / seating system angle

⚠ CAUTION

Incorrect seat tilt handling

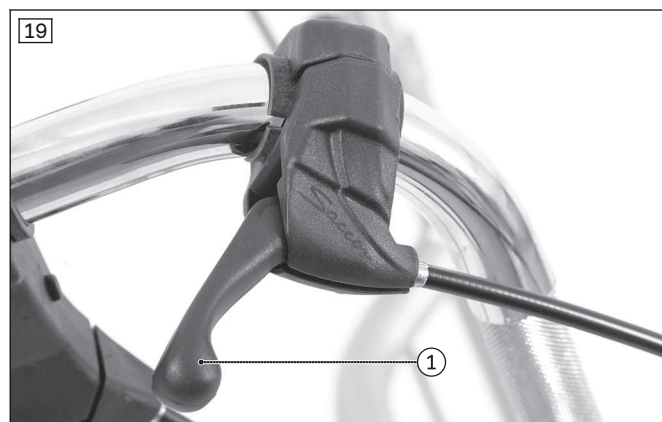
Tipping over, falling out of the seating shell / seating system due to errors in handling the product

- ▶ Before operating the seat tilt feature (seat angle adjustment), practise without the seated user.
- ▶ Only operate the seat tilt feature on a level, firm surface.
- ▶ Always activate the anti-tipper before operating the seat tilt feature (seat angle adjustment).
- ▶ Lower the seat tilt (horizontal neutral position of the seat) before negotiating slopes and obstacles. It is advisable to slightly tilt the seat to the rear when driving downhill.
- ▶ Only negotiate slopes where the holding forces remain manageable.
- ▶ Never use the release lever to operate the seat tilt feature (seat angle adjustment) in an uncontrolled manner.
- ▶ When activating the release lever, always secure the user against falling out to the front or rear. Keep a firm grip on the push handles while activating the locking pedal until the adjustment system audibly engages on both sides.
- ▶ Do not reach into the adjustment mechanism when using the seat tilt.
- ▶ Avoid getting caught in the Bowden cable as this can result in release of the seat tilt feature.

The seat can be moved back continuously up to an angle of **35°** (see fig. 18):

- 1) Hold the push handles / push bar firmly.
- 2) Activate and hold the release lever (see fig. 19, item 1).
 - The locking mechanism is released.

- 3) Bring the seat to the desired angle by moving the push handles / push bar (see fig. 18).
INFORMATION: The seat tilt adjustment range may be limited when using 22" or 24" drive wheels. Please see the specifications in the section "Technical data".
- 4) Let go of the release lever.
 → The seat / seating system is fixed in the desired position.



6.5.4 Adjusting the back angle

⚠ CAUTION

Change in centre of gravity following back angle adjustment

Tipping over, falling out of the user due to user error

- ▶ Always activate the anti-tipper with a back angle greater than 0°.
- ▶ After each modification of the back angle, check the tilt stability. To do so, hold the product with both hands by the push handle/push bar.

⚠ CAUTION

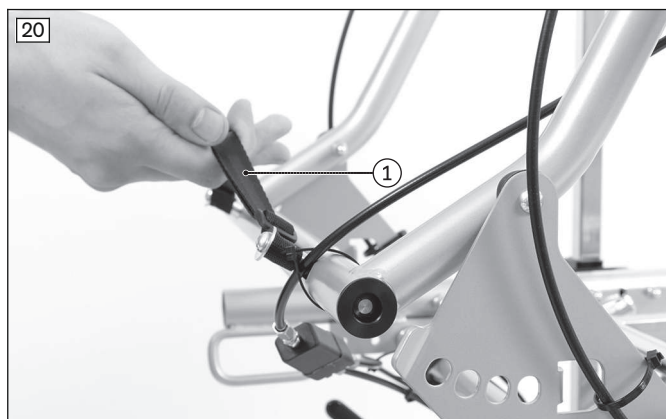
Pinching on components

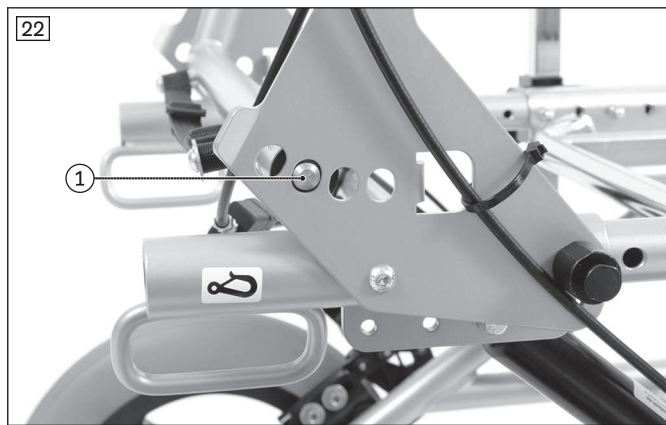
Crushing and pinching of fingers due to lack of caution in danger areas

- ▶ Do not reach between the moving frame components when adjusting the back angle.

The angle between the seat and back frame can be adjusted as needed within a range of **0°–30°**:

- 1) Hold the back frame firmly and pull the release strap (see fig. 20, item 1).
- 2) Fold the back frame forwards or backwards into one of the possible positions (see fig. 21).
DANGER! Always set the back angle vertically to 90° when transporting in vehicles for transporting persons with reduced mobility.
- 3) Let go of the release strap.
INFORMATION: Each release bolt must audibly click into place in one of the holes (see fig. 22, item 1).
- 4) Make sure the back frame is secure by giving it a few short tugs.
- 5) Visually check that the release bolts are in the same angle position on both sides.





6.5.5 Detaching/mounting the seating shell / seating system

⚠ WARNING

Improper handling of the seating unit

Tipping over, falling of the user due to failure to observe the installation instructions

- ▶ Check that the seat and the mobility base are securely connected every time the seating unit is mounted. The seating unit must engage securely on the adapters.
- ▶ Do not exceed the maximum load capacity (see the section "Technical data").

INFORMATION

When removing/attaching the seating shell / seating system, observe the instructions for use and safety instructions from the manufacturer of these products.

6.5.5.1 Seating systems with parallel adapter

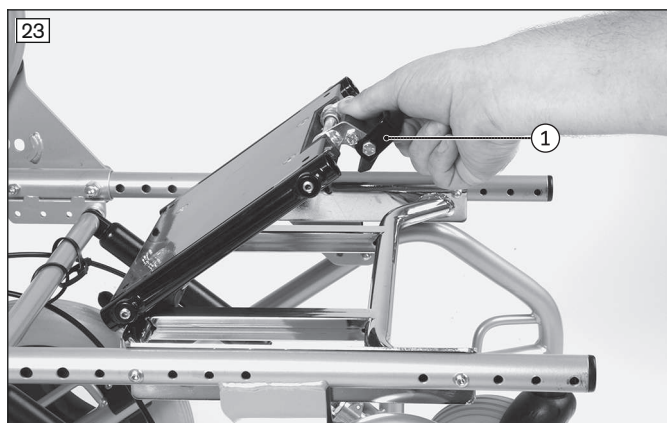
The seating systems with a parallel seating shell interface can be attached to or removed from the parallel adapter in just a few steps:

Detaching the seating unit

- 1) Engage the wheel locks or drum brakes on both sides of the mobility base for seating shells (see Page 28).
- 2) Stand next to the seating unit and hold the seat by the backrest with one hand.
- 3) Pull the handle of the retaining claw under the seat up to the edge of the seat (see fig. 23, item 1).
→ The retaining claw will now release the seat adapter.
- 4) Tip the seat back at an angle of approx. **45°** and then lift it up.

Mounting the seating unit

- 1) Engage the wheel locks or drum brakes on both sides of the mobility base for seating shells (see Page 28).
- 2) First place the seating unit on the rear tube of the seat adapter at an angle of approximately **45°** (see fig. 23).
- 3) Press the front edge of the seat onto the mobility base until the retaining claw audibly snaps onto the front tube of the seat adapter.
- 4) Check that the seat and the mobility base are securely connected. You can do this, for example, by pulling back the backrest.



6.5.5.2 Seating systems with trapezoid adapter

Ottobock offers a trapezoid adapter for individual third party seating systems (see fig. 24).

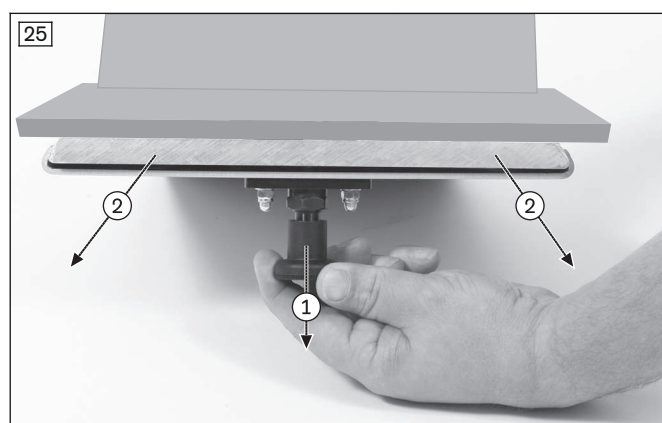
The seating systems with a trapezoid seating shell interface can be removed from or attached to the trapezoid adapter in just a few steps:

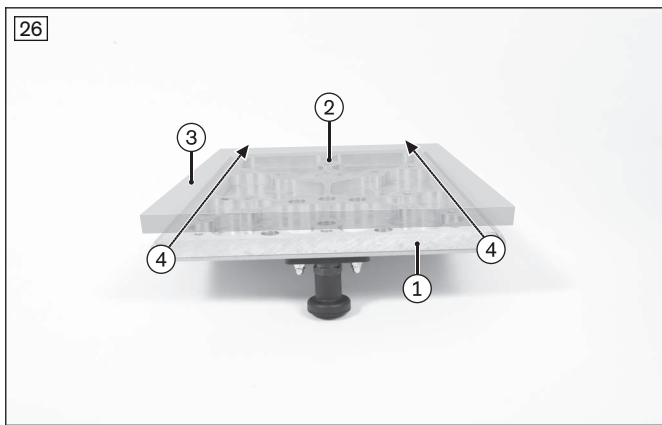
Detaching the seating unit

- 1) Engage the wheel locks on both sides of the mobility base for seating shells (see Page 28).
- 2) Stand next to the seating unit and hold the seat by the backrest with one hand.
- 3) Pull the release button on the trapezoid adapter down (see fig. 25, item 1).
→ The locking bolt will now release the adapter.
- 4) Slide the seating unit forwards and remove it (see fig. 25, item 2).

Mounting the seating unit

- 1) Engage the wheel locks or drum brakes on both sides of the mobility base for seating shells (see Page 28).
- 2) Place the seating unit (see fig. 26, item 3) on the trapezoid adapter. As you do so, slide the trapezoid seating shell interface (see fig. 26, item 1) from the front onto the trapezoid adapter (see fig. 26, item 4).
- 3) Slide the seating unit backwards until the locking bolt on the trapezoid adapter audibly engages.
- 4) Check that the seat and the mobility base are securely connected. Do this by sliding the seat forwards, for example.





6.5.5.3 Adapter for Leckey Squiggles, Mygo, Mygo Max and KIT seating systems

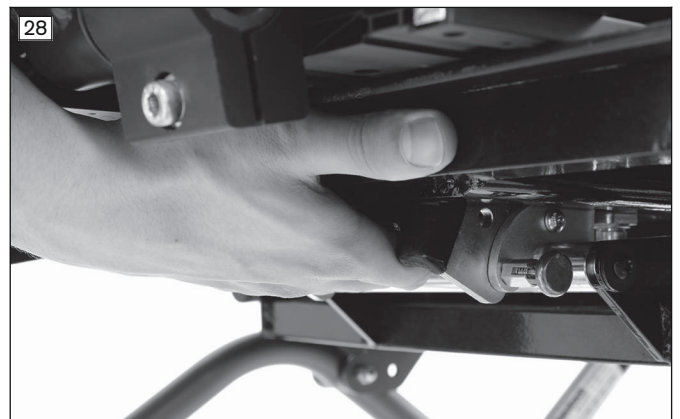
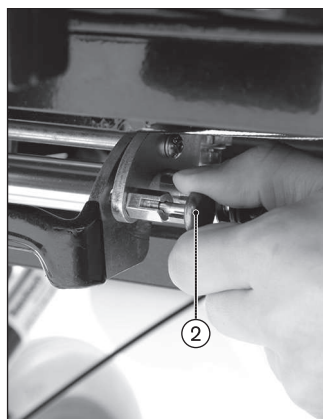
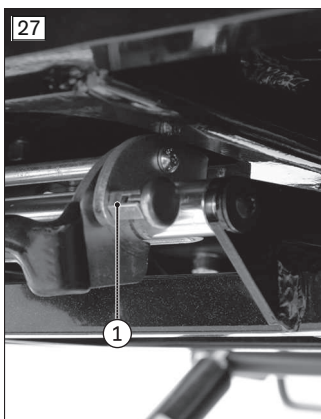
The Squiggles, Mygo, Mygo Max and KIT seating systems can be detached from or mounted on the adapter in just a few steps:

Detaching the seating unit

- 1) Engage the wheel locks or drum brakes on both sides of the mobility base for seating shells (see Page 28).
- 2) Stand next to the seating unit and hold the seat by the backrest with one hand.
- 3) Open the seat lock underneath the seating unit (see fig. 27, item 1). Do this by pulling the locking pin and twisting it by **90°**, so that it stays open (see fig. 27, item 2).
- 4) Pull the release handle under the seating unit up (see fig. 28).
- 5) Fold the seat back (see fig. 29).
- 6) Pull the retaining claw of the seating shell support off the adapter tube (see fig. 30) and remove the seating unit.

Mounting the seating unit

- 1) Engage the wheel locks or drum brakes on both sides of the mobility base for seating shells (see Page 28).
- 2) Place the retaining claw on the adapter tube under the seating unit at the back (see fig. 30).
- 3) Pull the release handle under the seating unit up (see fig. 29).
- 4) Carefully lower the seat until it rests on the front adapter tube (see fig. 28).
- 5) Press the seating unit down until the lock audibly engages.
- 6) Close the seat lock underneath the seating unit. Do this by turning the locking pin **90°** until it engages (see fig. 27, item 1).
Visually check that it has locked correctly.
- 7) Make sure the seating unit is secure by giving it a few short tugs.

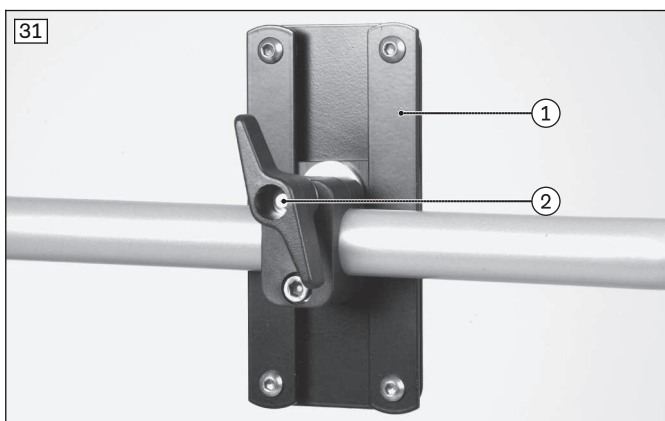




6.5.6 Using the back guide for seating shells (option)

The seating shell back is screwed to the guide plate of the back guide (see fig. 31, item 1). The back guide on the cross tube allows the angle of the seating shell backrest to be adjusted independently:

- 1) Loosen the clamping screw on the back guide (see fig. 31, item 2).
- 2) Twist the back guide onto the cross tube.
- 3) Firmly tighten the clamping screw on the back guide (see fig. 31, item 2).



6.6 Wheels

⚠ WARNING

Defective tyres

Accidents/falling due to poor traction, reduced braking force or lack of manoeuvrability

- ▶ Maintain sufficient tyre pressure. Note the information in the section "Technical data" or on the tyre sidewall.
- ▶ Ensure that the pressure is the same in both tyres.
- ▶ Ensure that the tyres have sufficient tread depth.

⚠ WARNING

Failure of caster wheels/caster forks

Falling, severe injury due to the wheelchair tipping over

- ▶ Regularly inspect the caster wheels/caster forks for damage.
- ▶ Clean and oil the caster wheel axles in case of stiffness (Approach in case of stiffness).
- ▶ Inform the responsible qualified personnel in case of changes to the driving characteristics.

⚠ CAUTION

Pinching on components

Crushing and pinching of fingers due to lack of caution in danger areas

- ▶ Do not reach between the drive wheel and wheel lock.
- ▶ Do not reach into the spokes of the rotating wheels.

6.6.1 Removing/installing the rear wheels / drive wheels

⚠ WARNING

Improper assembly of removable wheels

Tipping, falling over of the user due to wheels coming off

- ▶ After each assembly, verify the proper fit of the removable wheels. The quick-release axles must be firmly locked in the wheel attachment.

12" rear wheels

The wheels are fixed and cannot be removed.

Custom fabrication version with 22"/24" drive wheels

The drive wheels have a quick-release axle and can be removed without tools:

- 1) Reach into the spokes close to the hub with your fingers (see fig. 6).
- 2) Use your thumb to press the push-button on the quick-release axle.
- 3) Remove/attach the drive wheel. The quick-release axle must not be removable after releasing the pushbutton.



6.6.2 Caster wheels and caster forks

The combination of caster wheels and caster forks ensures the ability to hold a straight line and navigate bends securely.

6.7 Wheel locks

The product is equipped on both sides with a wheel lock (knee lever wheel lock and/or drum brake). The wheel locks secure the parked product against rolling away.

The drum brakes also allow the attendant to slow the product easily and safely by activating the wheel lock lever.

6.7.1 Using the knee lever wheel lock for parking

⚠ WARNING

Insufficient braking of the knee lever wheel lock

Accident, falling of the user due to incorrect adjustment and improperly inflated tyres

- ▶ Verify the functionality of the wheel lock prior to every use.
- ▶ Always carry out adjustments to the wheel locks on both sides.
- ▶ Maintain sufficient air pressure in pneumatic tyres. For the correct air pressure, see the section "Technical data".

⚠ WARNING**Improper use of the wheel lock**

Falling due to abrupt braking, rolling away of the product, crushing of hands

- ▶ Do not use the wheel lock as a driving brake.
- ▶ Always engage the wheel lock on both sides.
- ▶ Apply the wheel lock to prevent the product from moving when it is parked on uneven ground or during transfers (e.g. into a car).
- ▶ Do not reach between the rear wheel and the wheel lock when driving the product.
- ▶ Ensure that the knee lever wheel lock is properly adjusted (approx. **5 mm** gap to the tyres).
- ▶ Please contact the qualified personnel who adjusted your product for readjustment of the wheel lock.

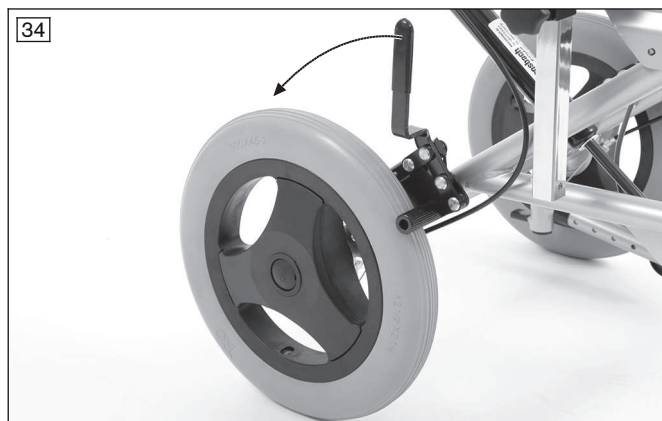
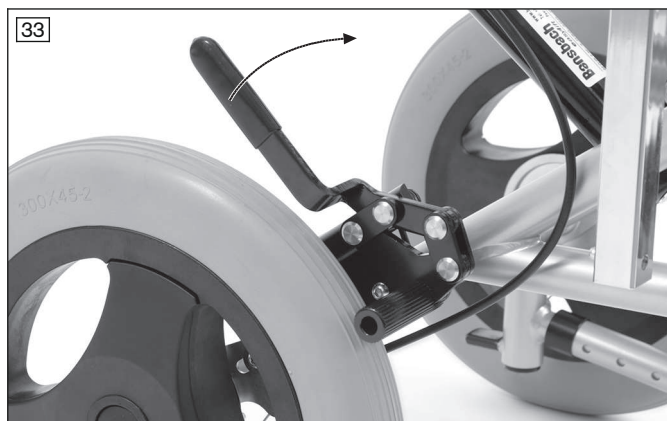
The wheel lock must be engaged on both drive wheels when the user is getting in or out and when parking the product on uneven surfaces.

Engaging the wheel lock

- ▶ Push the handle of the knee lever wheel lock forward (see fig. 33).
- The wheel lock bolt secures the wheel.

Releasing the wheel lock

- ▶ Pull the handle of the knee lever wheel lock to the back (see fig. 34).
- The wheel lock bolt releases the wheel.

**Plug-on wheel lock lever extension (only on custom fabrication version with 22"/24" drive wheels; see fig. 35)**

The wheel lock lever extension makes it easier for users with limited hand function to use the knee lever wheel lock.

**6.7.2 Adjusting the knee lever wheel lock**

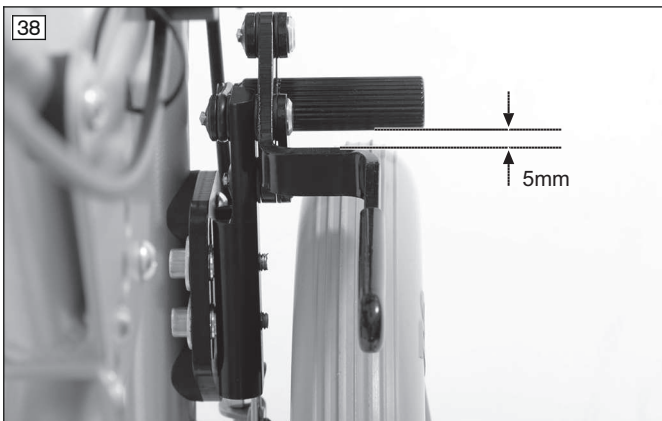
The knee lever wheel lock must be adjusted in case of reduced or uneven braking action – e.g. when the gap between the wheel lock bolt and the tyre is more than **5 mm**.

For 12" rear wheels, the knee lever wheel lock is adjusted using a clamping mechanism with a slotted hole (see fig. 36).

For the custom fabrication version with 22"/24" drive wheels, the knee lever wheel lock is adjusted on a clamping mechanism directly on the frame tube (see fig. 37).

- 1) Loosen the screw connections on the clamping mechanism of the knee lever wheel lock (see fig. 36, item 1; see fig. 37, item 1).
- 2) The knee lever wheel lock is continuously adjustable. Set the gap between the tyre and wheel lock bolt to **approx. 5 mm** when the wheel lock is disengaged (see fig. 38).
- 3) Firmly tighten the screw connections on the clamping mechanism of the knee lever wheel lock (see fig. 36, item 1; see fig. 37, item 1).

INFORMATION: Adjust the left and right knee lever wheel locks so that they have the same braking effect.



6.7.3 Using the drum brake as a wheel lock (option)

⚠ WARNING

Insufficient braking of the drum brake

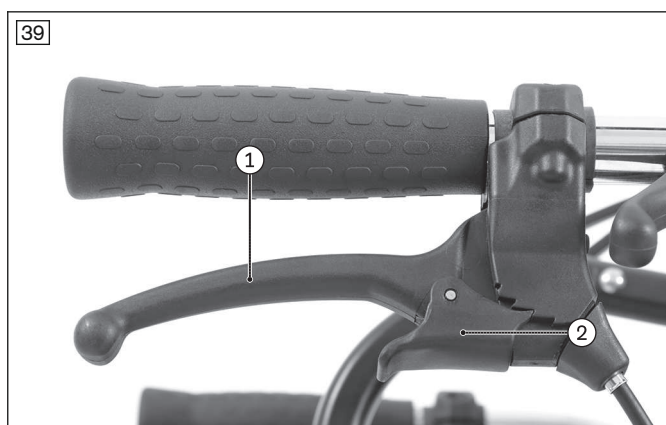
Accident, falling of the user, loss of control by the attendant

- ▶ Verify the functionality of the drum brake prior to every use. Contact the qualified personnel in case of insufficient braking.
- ▶ Apply the drum brakes to prevent the product from moving when it is parked on uneven ground or during transfers (e.g. into a car). Ensure that they lock securely with the help of the lock slide.

INFORMATION

The drive wheels with quick-release axle can still be removed via the quick-release axles when the wheel lock lever is released (not illustrated).

- 1) Pull the brake lever (see fig. 39, item 1).
- 2) If necessary, secure the brake lever by additionally actuating the lock slide (see fig. 39, item 2). The mobility base for seating shells remains securely braked.
- 3) Deactivate the wheel lock again by pressing the lock slide (see fig. 39, item 2).



6.8 Legrests (optional)

⚠ CAUTION

Improper use of the legrests/footplates

Tipping over, falling due to user error

- ▶ Fold up the footplates before getting in.
- ▶ With segmented footplates, ensure the height adjustments are equal.
- ▶ The footplates must engage audibly when they are locked.

⚠ CAUTION

Pinching on components

Crushing and pinching of fingers due to lack of caution in danger areas

- ▶ Avoid pinching when moving/locking the legrests.

⚠ CAUTION

Improper adjustment of the legrests/footplates

Tipping over, falling due to user error

- ▶ After changing the legrest/footplate settings, verify that the legrests/footplates do not collide with the caster wheels at any of the seat tilt settings (seat angle adjustment).
- ▶ The distance between the legrest/footplate and the caster wheel must be at least **25 mm**.

The legrests support the user's feet.

The height of the legrests has been adjusted by qualified personnel to the length of the user's lower leg. Subsequent adjustments may be made only by qualified personnel.

The angle of the footplate has been set by the qualified personnel so that it allows the ankles to rest in a comfortable position.

Segmented legrests with foot straps can be optionally fitted to provide the user's feet with additional support.

The product can be equipped with one of the following legrests:

- Single-panel (see fig. 40)
- Segmented, plastic (see fig. 41)
- Segmented, aluminium (see fig. 42)
- Segmented for short lower leg length, aluminium (see fig. 43)
- Elevating with ratchet joint, aluminium (see fig. 44)
- Elevating, segmented with calf pad, plastic (see fig. 45)
- Elevating, segmented with calf band, plastic (see fig. 46)
- With single-panel footplate for seating shell interface, steel (see fig. 47)



6.8.1 Removing/installing the legrests

a) Removing/installing the following legrests:

- Single-panel
- Segmented (aluminium/plastic)
- Segmented for short lower leg length (aluminium)
- Elevating with ratchet joint (aluminium)

Removing the legrest

- 1) **Optional:** Open the calf band and disengage it from the holder (see fig. 48, item 1).
- 2) Fold up the footplates (see Page 33).
- 3) Release the legrest locking mechanism (see fig. 49, item 1).
- 4) Swing the legrest out by **90°** (see fig. 49).
- 5) Pull the legrest up and remove it.

Installing the legrest

- 1) Slide the legrest into the holder on the front frame tube from above. The legrest has to face out by **90°**.
- 2) Swing the legrest in until the locking mechanism engages (see fig. 49).
- 3) Fold down the footplates.
- 4) **Optional:** Engage the calf band on the holder (see fig. 48, item 1) and adjust the length of the calf band. Do so by opening, adjusting and closing the hook-and-loop closure (see fig. 48, item 2).



b) Removing/installing the following legrests:

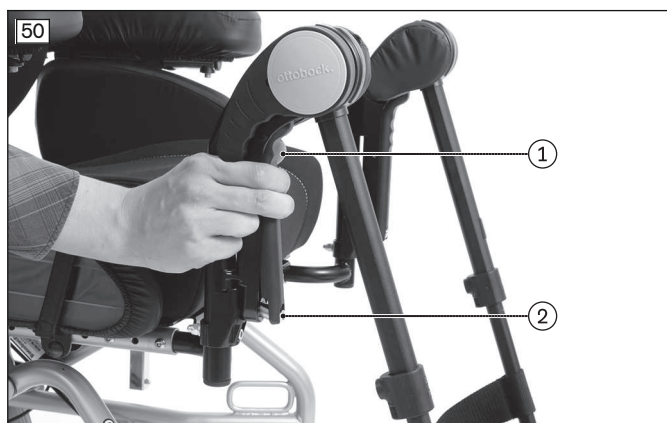
- Elevating, segmented with calf pad (plastic)
- Elevating, segmented with calf band (plastic)

Removing the legrest

- 1) Fold up the footplates (see Page 33; see fig. 52).
- 2) Press the release handle on the legrest (see fig. 50, item 1).
- 3) Pull the legrest up and remove it.

Installing the legrest

- 1) Position the legrest on the holder on the front frame tube from above (see fig. 51).
- 2) Engage the legrest locking mechanism on the front frame tube (see fig. 50, item 2).
- 3) Fold down the footplates.



c) Removing/installing the following legrests:

- With single-panel footplate for seating shell interface (steel)

The legrest is mounted on the seating shell interface and may only be removed or installed by the qualified personnel.

6.8.2 Folding up the footplates

The footplates on the following legrests can be folded up to make getting into the product easier.

a) Folding up the footplates on the following legrests:

- Segmented (aluminium/plastic)
- Segmented for short lower leg length (aluminium)
- Elevating with ratchet joint (aluminium)
- Elevating, segmented with calf pad (plastic)
- Elevating, segmented with calf band (plastic)

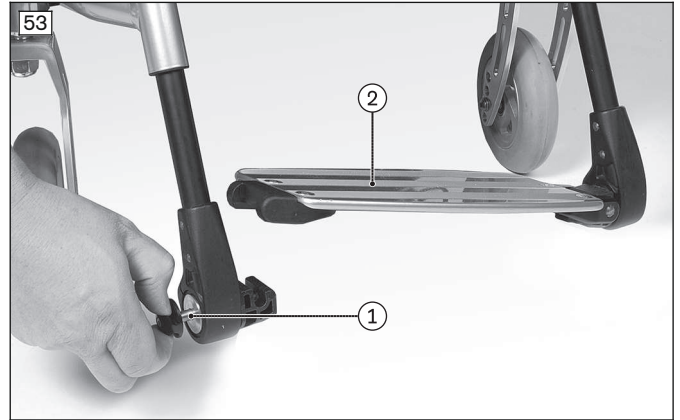
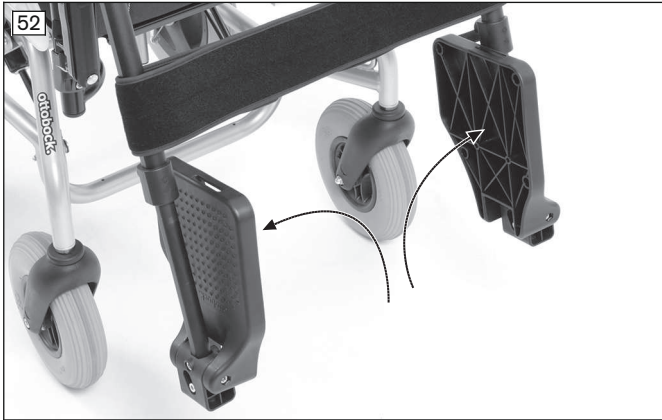
- 1) Hold onto the footplate.
- 2) Fold up the footplate (see fig. 52).

b) Folding up the footplates on the following legrest:

- Single-panel

The single-panel legrest can be optionally equipped with a locking mechanism on one side which prevents the footplate from folding up unintentionally.

- 1) Pull out the locking mechanism of the footplate by the ring (see fig. 53, item 1).
- 2) Hold onto the footplate and fold it up (see fig. 53, item 2).

**6.8.3 Adjusting the footplate angle**

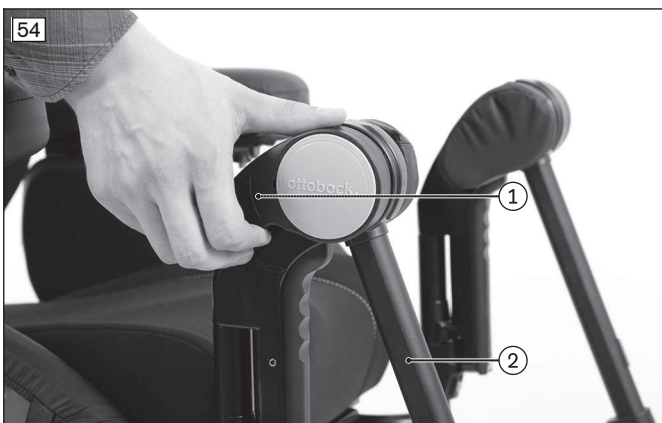
Subsequent adjustments to the footplates may be made only by qualified personnel.

6.8.4 Adjusting the knee angle of the legrest (option)

The knee angle of the following legrests can be adjusted according to the needs of the user.

a) Adjusting the knee angle of the following legrests:

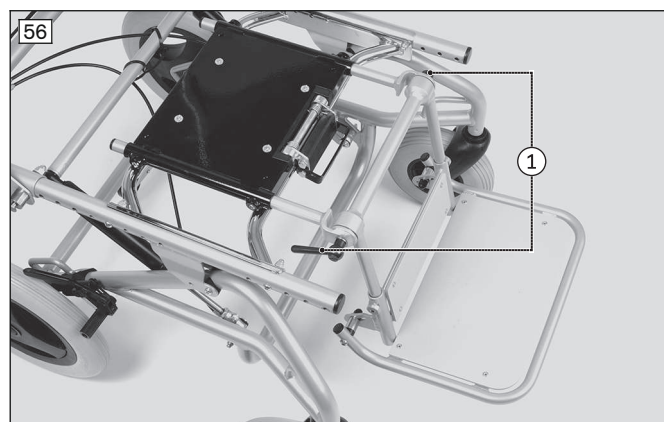
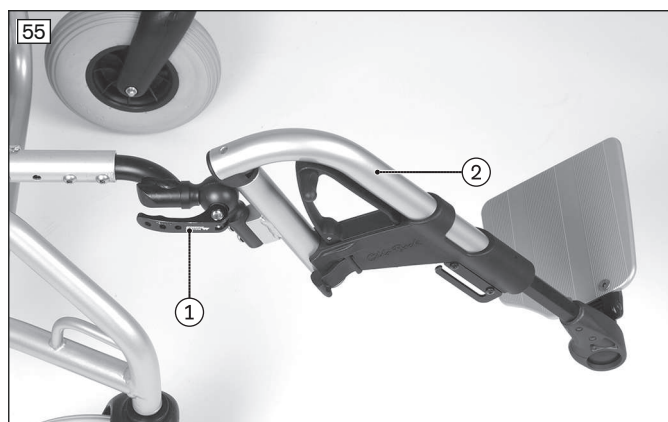
- Elevating, segmented with calf pad (plastic)
 - Elevating, segmented with calf band (plastic)
- 1) Turn the release handle on the legrest up (see fig. 54, item 1).
 - 2) Support the legrest bar and swivel it to the desired angle (see fig. 54, item 2).
 - 3) Carefully turn back the release handle on the legrest (see fig. 54, item 1).
→ The legrest will automatically snap into place in the next free position.

**b) Adjusting the knee angle of the following legrest:**

- Elevating with ratchet joint (aluminium)
- 1) Open the eccentric lever on the legrest (see fig. 55, item 1).
 - 2) Support the legrest bar and swivel it to the desired angle (see fig. 55, item 2).
 - 3) Close the eccentric lever on the legrest (see fig. 55, item 1).
→ The legrest is fixed in the set position.

c) Adjusting the knee angle of the following legrest:

- With single-panel footplate for seating shell interface (steel)
- 1) Release the clamping levers on the right/left sides of the legrest (see fig. 56, item 1).
 - 2) Set the desired knee angle.
 - 3) Firmly tighten the clamping levers on the right/left sides of the legrest (see fig. 56, item 1).
→ The legrest is fixed in the set position.



6.8.5 Fastening/removing the calf strap

The calf strap offers additional support to the user's legs. It can be removed for cleaning.

Removing the calf band

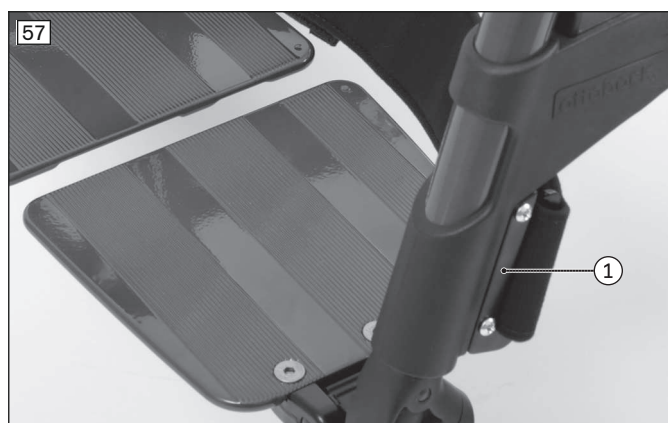
- 1) Open all hook-and-loop closures on the calf band.
- 2) Remove the calf band from the holder or the legrest bar (see fig. 57, item 1; see fig. 58, item 1).

Fastening the calf band

- 1) Open all hook-and-loop closures on the calf band.
- 2) Route the calf band around the legrest holder and fasten the hook-and-loop (see fig. 57, item 1).

INFORMATION: If there is no holder for a calf band on the legrests, route the calf band around the legrest bar and fasten it securely (see fig. 58, item 1).

- 3) Adjust the length and fasten the hook-and-loop closure (not illustrated).



6.9 Armrests (option)

⚠ CAUTION

Pinching at the side panels

Pinching, crushing due to lack of caution in danger areas

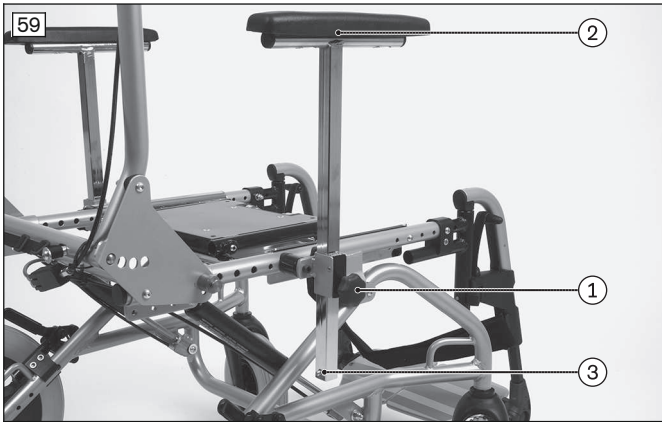
- ▶ Pay attention not to pinch parts of your body between the side panel or frame parts.

6.9.1 Adjusting the armrest height

The height of the armrest can be adjusted without the use of tools:

- 1) Loosen the clamping screw on the armrest (see fig. 59, item 1).

- 2) Slide the armrest to the desired height (see fig. 59, item 2).
INFORMATION: The armrest can also be removed entirely to make getting into the product easier. Do this by pressing the tripod spring (see fig. 59, item 3) and pulling the armrest out of the armrest holder. After getting in, reinsert the armrest in the armrest holder at the desired height.
- 3) Firmly tighten the clamping screw on the armrest (see fig. 59, item 1).
- 4) Verify that the armrest is firmly engaged.



6.9.2 Adjusting the armrest angle (option)

NOTICE

Incorrect lifting or use as supports

Loss of functionality, damage to the product

- ▶ Use only the area in the middle of the angle-adjustable armrest (close to the joint) to support yourself during positioning. Do not support yourself on the front or back part of the armrest.
- ▶ Do not pull on the angle-adjustable armrests. Do not lift the product by the armrests.

The support angle of the armrests can be adjusted without the use of tools:

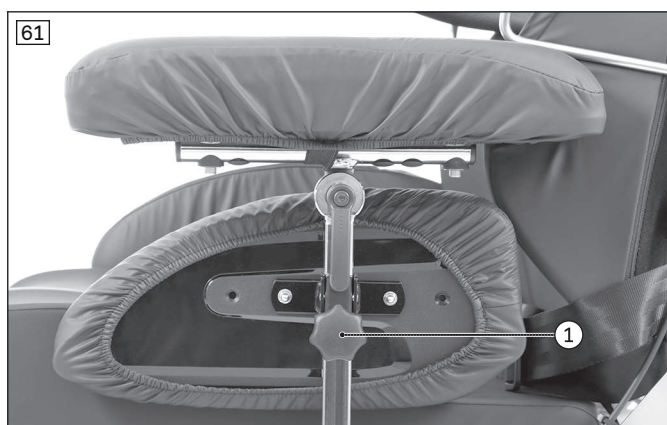
- 1) Release the clamping lever on the armrest (see fig. 60, item 1).
- 2) Move the armrest to the desired angle.
- 3) Firmly tighten the clamping lever on the armrest (see fig. 60, item 1).



6.9.3 Adjusting the clothing protector (option)

A clothing protector can also be attached to the armrests. The height of the clothing protector can be adjusted without the use of tools:

- 1) Loosen the clamping screw on the clothing protector (see fig. 61, item 1).
- 2) Move the clothing protector to the desired height.
- 3) Firmly tighten the clamping screw on the clothing protector (see fig. 61, item 1).



6.10 Push handles / push bar (option)

INFORMATION

The height of the push handles / push bar cannot be adjusted on the Care Chair equipment version of the mobility base for seating shells with a back height of **600 mm** and deep backrest bracket (see Page 42). There are no clamping levers on the back tubes in this case. The Care Chair equipment version does not impair the ability to adjust the angle.

6.10.1 Adjusting the push handles

The height of the push handles can be adjusted in order to make pushing easier for the attendant:

- 1) Release the clamping levers on the right/left sides of the back tubes (see fig. 62, item 1).
- 2) Adjust the height of the push handles.
- 3) Firmly tighten the clamping levers on the right/left sides of the back tubes (see fig. 62, item 1).

INFORMATION: Adjust both push handles to the same height.



6.10.2 Adjusting the push bar (option)

The height of the push bar can be adjusted in order to make pushing easier for the attendant:

- 1) Release the clamping levers on the right/left sides of the back tubes (see fig. 63, item 1).
- 2) Adjust the height of the push bar.
- 3) Firmly tighten the clamping levers on the right/left sides of the back tubes (see fig. 63, item 1).



6.10.3 Adjusting the push bar with ratchet joints (option)

The height and angle of the push bar can be adjusted in order to make pushing easier for the attendant:

Adjusting the height of the push bar with ratchet joints

- 1) Release the clamping levers on the right/left sides of the back tubes (see fig. 64, item 1).
- 2) Adjust the height of the push bar.
- 3) Firmly tighten the clamping levers on the right/left sides of the back tubes (see fig. 64, item 1).

Adjusting the angle of the push bar with ratchet joints

- 1) Release the clamping levers on the right/left sides of the ratchet joints (see fig. 64, item 2).
- 2) Move the push bar to the desired angle.
- 3) Firmly tighten the clamping levers on the right/left sides of the ratchet joints (see fig. 64, item 2).



6.11 Anti-tipper

⚠ WARNING

Improper use of the anti-tipper by attendants

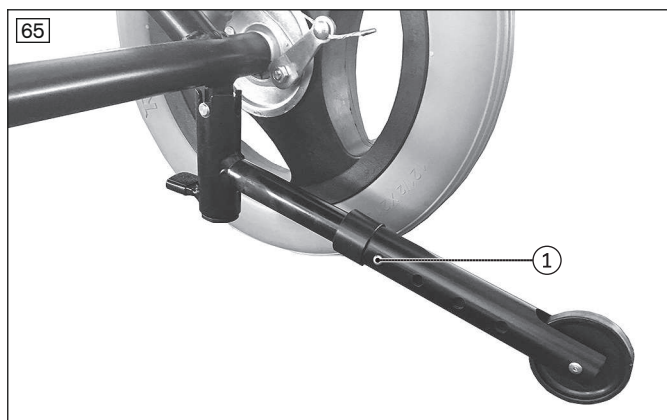
Tipping over, falling of the user due to improper operation of a safety device

- ▶ **Only for Discovery Care Chair version with 12"/22"/24" rear wheels:** Make sure that the anti-tipper installed on both sides is always activated, except when negotiating high curbs or steps. Depending on the seating centre of gravity setting, large or unmanageable holding forces can be required when the anti-tipper is deactivated (especially when going up slopes).
- ▶ **For all other Discovery versions with 12"/22"/24" rear wheels and anti-tipper:** Only deactivate the anti-tipper before negotiating high curbs or steps so that it cannot strike the obstacle since this could damage it. Activate the anti-tipper again afterwards.
- ▶ The anti-tipper has to engage audibly prior to use. Verify its firm fit.
- ▶ If you believe the anti-tipper needs to be adjusted, please contact the qualified personnel that adapted the product.

The anti-tipper prevents the wheelchair from tipping backwards when overcoming obstacles and going uphill. It is set for a maximum ground clearance of **50 mm** and so that the anti-tipper rollers, as a minimum, project fully beyond the largest diameter of the drive wheels.

Discovery Care Chair with 12"/22"/24" rear wheels: The anti-tipper is installed on both sides. This anti-tipper may only be deactivated for negotiating high curbs and steps. The mounting screw always has to be firmly tightened (illustration shows version for 12" rear wheels: see fig. 65, item 1).

Discovery Standard, Discovery for Leckey KIT seat & Leckey Mygo Max or custom fabrication versions with 12"/22"/24" rear wheels: The anti-tipper is mounted according to the order. This anti-tipper should only be deactivated for negotiating high curbs and steps. The length of the anti-tipper can be varied by pushing in the tripod spring (illustration shows version for 22"/24" rear wheels: see fig. 66, item 1).



6.11.1 Activating and deactivating the anti-tipper

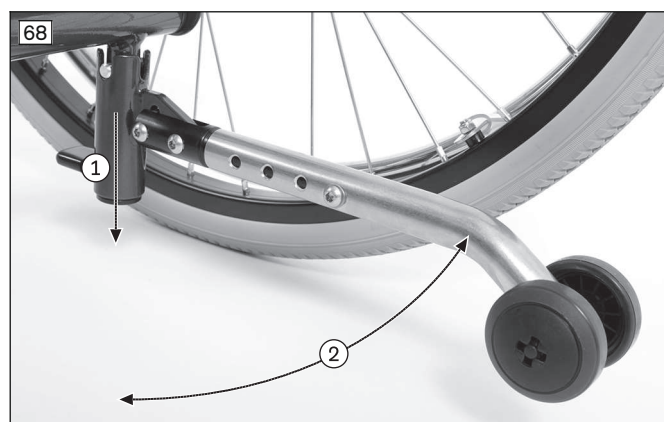
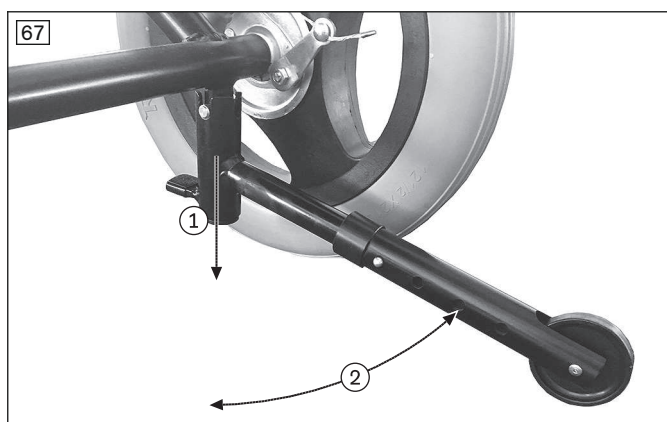
Negotiating lowered curbs

Low obstacles (e.g. lowered curbs) can be negotiated with the anti-tipper activated (see fig. 65, see fig. 66). When ascending an obstacle, the anti-tipper rollers contact the ground and prevent tipping over backwards.

Negotiating high curbs/steps

When negotiating high curbs and steps, the anti-tipper must be deactivated by the attendant before tipping the mobility base for seating shells in order to avoid damaging the anti-tipper:

- 1) Push the anti-tipper down slightly (see fig. 67, item 1; see fig. 68, item 1).
- 2) Rotate the anti-tipper under the frame tube by approx. **90°** until it engages (see fig. 67, item 2; see fig. 68, item 2).
→ Now the obstacle can be crossed forward or backward.
- 3) Reactivate the anti-tipper after crossing the obstacle: In order to do so, push the anti-tipper down slightly (see fig. 67, item 1; see fig. 68, item 1) and turn it back by approx. **90°** until it engages.



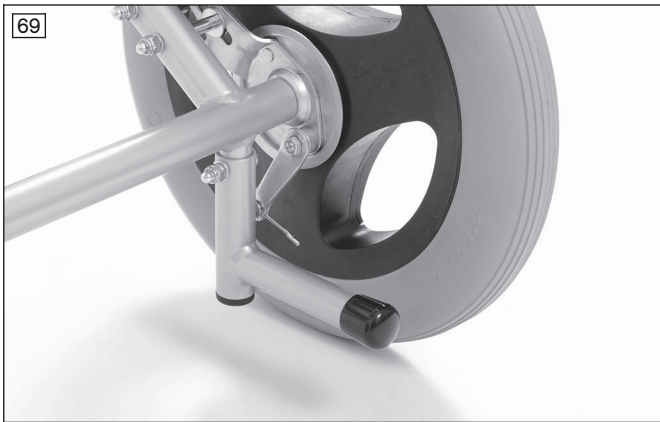
6.12 Tip-assist (option)

INFORMATION

The preconfigured Discovery Care Chair version is supplied without tip-assist.

The tip-assist (see fig. 69) makes it easier for an attendant to tip up the mobility base for seating shells, e.g. to cross a step/curb:

- 1) At an obstacle, place one foot on the tip-assist and push down.
- 2) Simultaneously pushing down on the push handles / push bar allows the mobility base for seating shells to be tipped up easily.



6.13 Belts / belt systems (option)

⚠ WARNING

Use in vehicles for transporting persons with reduced mobility

Falls, user falling out due to improper use

- ▶ Do **not** use the strap system as part of a personal restraint system in vehicles for transporting persons with reduced mobility. The product does not replace the existing safety belts in the vehicle for transporting persons with reduced mobility.

⚠ WARNING

Incorrect application

Throttling, suffocation or strangulation due to sliding forward in the product

- ▶ The lap belt has to fit closely but not too tightly so the user is not injured. Sliding two fingers comfortably between the belt and thigh should be possible.
- ▶ Observe the following positioning instructions.
- ▶ Observe the information for proper application and adjustment of the product in the enclosed instructions for use to avoid hazards for the user.

⚠ CAUTION

Improper adjustments

Injuries, malpositions, illness of the user due to adjustment changes

- ▶ The belt system is an important part of an individual seating unit/seating solution. Do not modify the installation position and basic settings established by the qualified personnel.
- ▶ In case of problems with these adjustments (such as an unsatisfactory sitting position), promptly contact the qualified personnel who fitted the product.
- ▶ **Immediately** consult the qualified personnel if you detect signs of discomfort or fear when using the product.
- ▶ Have the basic settings of the belt system checked regularly. Adjustments may be required due to the growth of the user or because of changes in the course of the disease.

⚠ CAUTION

Improper use

Falls, user falling out due to improper use

- ▶ The lap belt must be put on when getting into the product and used at all times while using the product.
- ▶ Only open the lap belt when the user is ready to get out of the product.
- ▶ Do not leave the user unsupervised if the cognitive abilities of the user could lead to unintentional opening of the positioning system.

⚠ CAUTION**Medical risks**

Injuries, pressure sores due to application errors

- ▶ Regular measures for pressure redistribution and skin examinations are required. Should skin irritation and/or skin reddening occur, consult the qualified personnel who adapted and adjusted the product. Do not continue using the product without consultation.

6.13.1 Positioning**INFORMATION**

Observe the instructions for use and the safety information for the respective products regarding the installation and safe use of the belts and positioning systems.

The lap belt prevents the user from slipping and supports positioning.

It is installed on the product by qualified personnel if needed and adapted to the requirements of the user.

Information about subsequent acquisition and mounting is provided by the qualified personnel that handed over the product.

The following belts are available for the mobility base for seating shells:

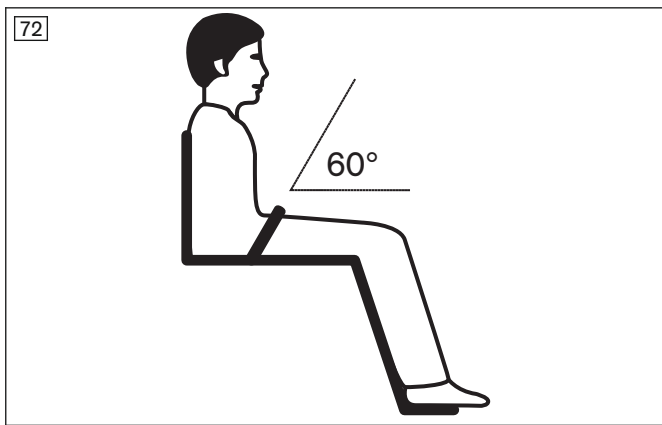
- Lap belt, standard (see fig. 70)
- Lap belt, padded (see fig. 71)

**Using the lap belt**

- 1) Open the belt using the metal snap / buckle.
- 2) Place the user in an upright, 90° seated position (if physiologically possible). Ensure that the back is up against the back padding (if physiologically possible).
- 3) Fasten the belt by means of the metal snap or buckle.
- 4) The lap belt should be at an angle of about 60° to the seat surface. The belt strap should run across the thighs in front of the pelvic bones (see fig. 72).

Possible errors

- The lap belt is positioned above the user's pelvis in the area of the soft part of the stomach.
- The user does not sit upright in the seat.
- If the lap belt is too loose, the user can shift/slide out to the front.
- During the installation/adjustment, the safety belt is led over parts of the seating system (e.g. over armrests or seat pads). This causes the lap belt to lose its retaining function.



6.14 Seat plate with seat cushion (option)

⚠ WARNING

Seat cushions and back support pads may ignite

Burns due to user error

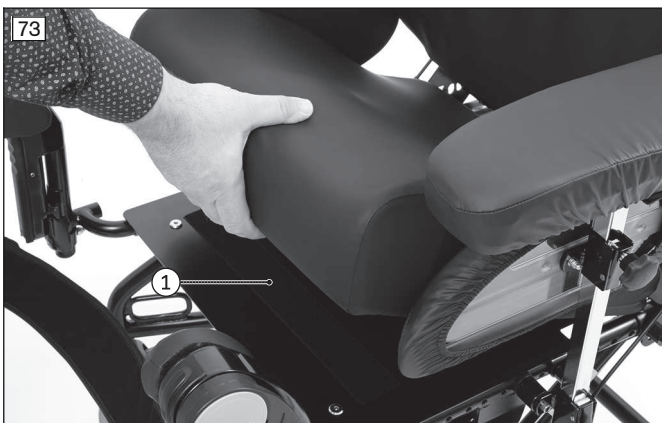
- ▶ The seat and back support upholstery as well as seat cushions, padding and covers fulfil the normative requirements for flame resistance. However, they may still ignite if fire is handled improperly or negligently.
- ▶ Keep away from all ignition sources, especially lit cigarettes.

The seat plate is mounted on the mobility base for seating shells by qualified personnel according to the needs of the user. Users or attendants are not supposed to remove or install the seat plate.

The seat cushion can be removed for cleaning.

Removing and fastening the seat cushion

- 1) Carefully pull the seat cushion off the hook-and-loop fastener on the seat plate (see fig. 73).
- 2) After cleaning (see Page 50): Place the seat cushion on the seat plate. Secure the seat cushion against sliding by pressing it onto the hook-and-loop fastener (see fig. 73, item 1).



6.15 620 mm back height with deep backrest bracket (option)

The extended back tubes make it possible to attach all of the back straps across the entire surface of the back padding directly to the back tubes (see fig. 74, item 1). The deep backrest bracket allows very flexible adjustment of the back straps (see fig. 74, item 2).

Due to the extended back tubes, it is not possible to adjust the height of the push handles / push bar.



6.16 Adjustable back straps with back padding (option)

⚠ WARNING

Seat cushions and back support pads may ignite

Burns due to user error

- ▶ The seat and back support upholstery as well as seat cushions, padding and covers fulfil the normative requirements for flame resistance. However, they may still ignite if fire is handled improperly or negligently.
- ▶ Keep away from all ignition sources, especially lit cigarettes.

⚠ CAUTION

Wear of the back straps

Loss of functionality due to prohibited continued use

- ▶ Have the back straps replaced immediately in the event of damage.

The back padding and back straps provide pressure relief during use of the product. They are pre-adjusted by qualified personnel according to the needs of the user.

The back padding is attached to the back straps by several double sided hook-and-loop strips (see fig. 75, item 1).

Fastening and removing the back padding

The back padding can be removed for cleaning:

- 1) Carefully pull the back padding off the back straps (see fig. 75).
- 2) If necessary: Pull the double sided hook-and-loop strips off the back padding and affix them to each of the back straps in the same position (see fig. 75, item 1).
- 3) After cleaning (see Page 50): Position the back padding on the back straps at the desired height. Secure the back padding against sliding by pressing it onto all of the double sided hook-and-loop strips on the back straps.

Adjusting the back straps

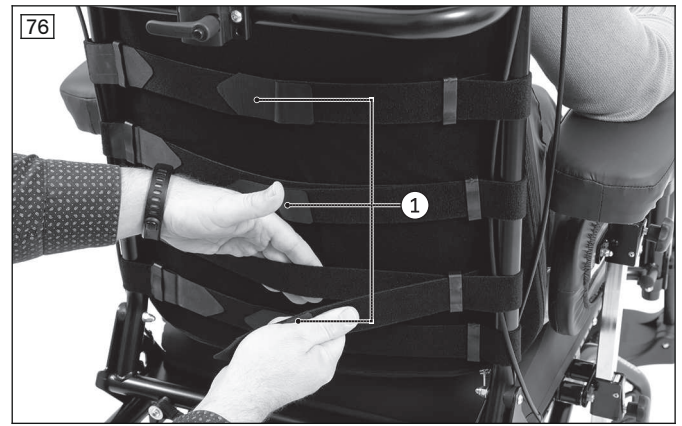
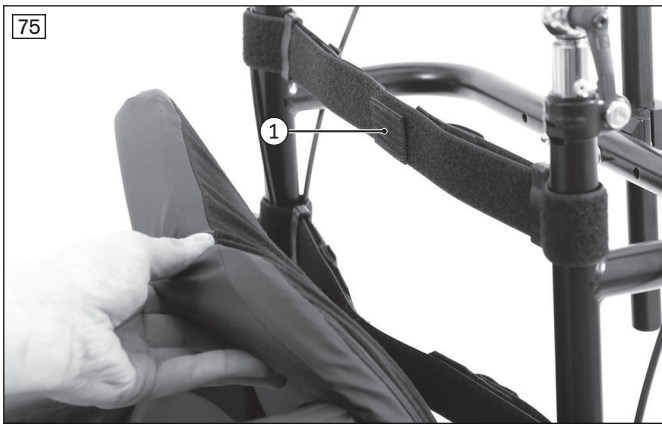
The back straps are attached to all of the back tubes and can be adjusted in their length.

- 1) **If necessary:** Seat and position the user on the seat cushion in the mobility base for seating shells.
- 2) Pull the back straps off the double sided hook-and-loop strips one by one and open and loosen each of the hook-and-loop tabs (long ends) on the right side of the back straps (see fig. 76, item 1).
- 3) From the bottom to the top, adjust the tension of the individual back straps to the weight and anatomical condition of the user (see fig. 76).
- 4) Press the individual back straps onto the double sided hook-and-loop strips on the back padding and close them one after another.

INFORMATION: The two ends of the back straps should not overlap.

INFORMATION: Adjust the respective lowermost back straps on the back frame somewhat tighter.

INFORMATION: Deviating adjustments may be required in specific cases; this is the responsibility of the attending therapist.



6.17 Head support (option)

⚠ WARNING

Improper use of the head supports during transport in a vehicle for transporting persons with reduced mobility

Very serious injury to the user in the cervical spine area

- ▶ The head supports are not suitable for use in vehicles for transporting persons with reduced mobility.

Two different types of head supports are available (see fig. 77). All head supports can be adjusted according to the needs of the user.

Adjusting the height of the head support

- 1) Release the clamping lever for adjusting the height of the head support (see fig. 78, item 1).
- 2) Slide the head support to the desired height.
- 3) Firmly tighten the clamping lever for the head support (see fig. 78, item 1).

INFORMATION: If a clamping lever protrudes after adjusting the holder, pull it out slightly and turn it to a position that is as parallel to the holder as possible.

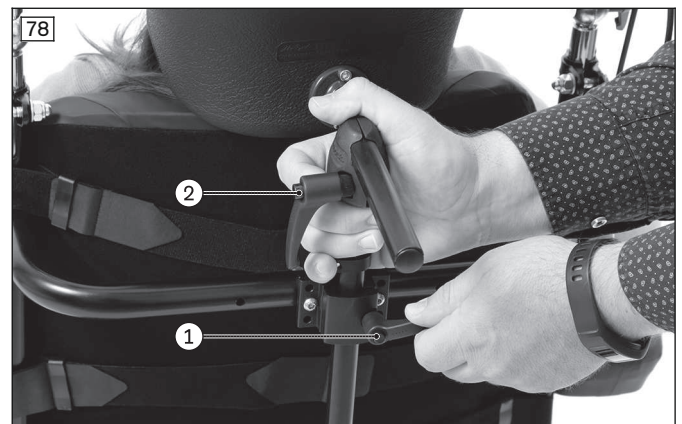
- 4) Verify that the head support is firmly engaged.

Adjusting the position of the head support

- 1) Release the clamping levers for the head support (see fig. 78, item 2).
- 2) Swivel/slide the head support to the desired position.
- 3) Firmly tighten the clamping levers for the head support (see fig. 78, item 2).

INFORMATION: If a clamping lever protrudes after adjusting the holder, pull it out slightly and turn it to a position that is as parallel to the holder as possible.

- 4) Verify that the head support is firmly engaged.



Further adjustments to the head support may be made only by qualified personnel.

6.18 Tray (option)

⚠ CAUTION

Improper adjustment

Crushing or pinching due to adjustments which are too tight

- ▶ Do not pinch the user when sliding in the product.

⚠ CAUTION

Driving with objects on the tray top

Burns or other injuries caused by objects falling off the tray

- ▶ Remove all objects from the tray top prior to travelling.

⚠ CAUTION

Improper lifting by attendants

Falling, tipping over of the user due to lifting by removable components

- ▶ The product must not be lifted by the tray.

NOTICE

Overloading

Damage to the product due to user error

- ▶ Do not load the tray with heavy objects.
- ▶ No persons may sit or lean on the tray.

INFORMATION

The tray can only be used in conjunction with the armrests. Angle-adjustable armrests are particularly suitable for using together with the tray.

The tray serves as a supporting surface during meals, when working or when playing. The clear material allows visibility of the legs and correction of the sitting posture.

Prior to use in a vehicle for transporting persons with reduced mobility, the tray has to be removed.

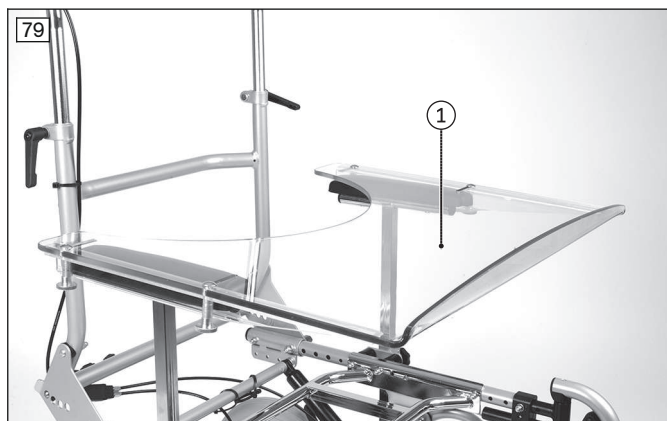
Mounting the tray

- 1) Adjust the armrests to the same height and the same angle (see Page 35).
- 2) **Optional:** Remove the padded covers on the armrests and safely stow them (see Page 46).
- 3) Slide the tray onto the armrests (see fig. 79, item 1).

INFORMATION: Leave enough space for the person using the mobility base for seating shells.

Removing the tray

- 1) Pull the tray off the armrests (see fig. 79, item 1).
- 2) Optional: Reattach the padded covers to the armrest (see Page 46).



6.19 Storage bag (option)

NOTICE

Overloading

Damage to the storage bag due to failure to observe transportation instructions

- ▶ The maximum load capacity of the storage bag is **5 kg (11 lbs)**.
- ▶ Please note that the maximum load capacity of the overall product must not be exceeded after loading the storage bag as well (see Page 55).

The storage bag is hung from the bottom of the frame by an overlapping tongue and 2 loops with snap fasteners (see fig. 80).



6.20 Padded covers accessory (option)

Depending on the configuration, padding may be added to the accessories attached to the mobility base for seating shells. The following padding is available:

- Padded cover for armrest, long (see fig. 81)
- Padded cover for clothing protector (see fig. 82)
- Reinforced knee pad for legrest, elevating with calf pad / calf band (see fig. 83)

The accessory padding can be removed for cleaning.

Removing and attaching the padded covers for armrests, long

- 1) Open the elastic band with hook-and-loop closure on the underside of the padding (see fig. 81, item 1).
- 2) Carefully pull the padding off the armrest.
- 3) After cleaning (see Page 50): Carefully slip the padding over the armrest.
- 4) Tighten and close the elastic band with hook-and-loop closure on the underside of the padding (see fig. 81, item 1).

Removing and attaching the padding on the clothing protector

- 1) Carefully pull the padding off the clothing protector.
- 2) After cleaning (see Page 50): Carefully slip the padding over the clothing protector.

Removing and attaching the lateral knee pads

- 1) Carefully pull the pad off the hook-and-loop fastener on the joint.
- 2) After cleaning (see Page 50): Secure the pad against sliding by pressing it onto the hook-and-loop fastener on the joint.



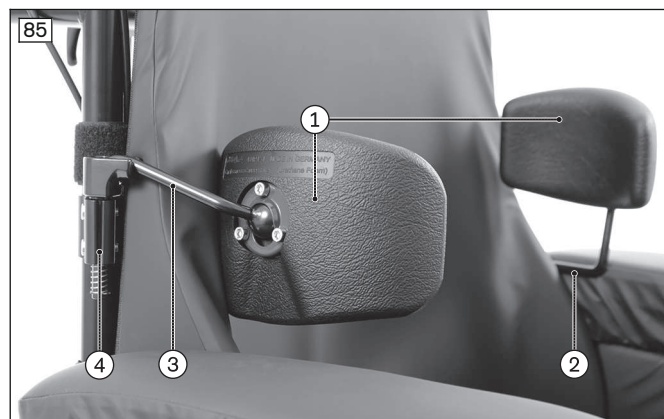
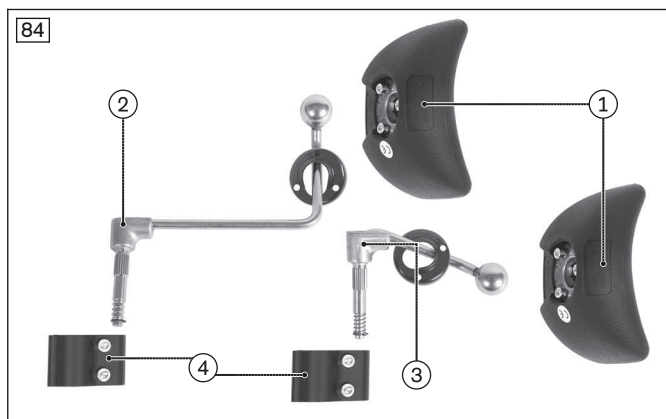
6.21 Thoracic supports and accessories (option)

INFORMATION

Observe the instructions for use and the safety information for the respective products regarding the installation and safe use of the thoracic supports and accessories.

The following side thoracic supports (S.T.S.) and accessories are available for the mobility base for seating shells:

- S.T.S. pads (see fig. 84, item 1; see fig. 85, item 1):
 - small
 - medium
 - large
- S.T.S. mounting set:
 - Folding, extended (see fig. 84, item 2; see fig. 85, item 2), plus S.T.S. Clamp fitting (see fig. 84, item 4; see fig. 85, item 4)
 - Folding, offset (see fig. 84, item 3; see fig. 85, item 3), plus S.T.S. Clamp fitting (see fig. 84, item 4; see fig. 85, item 4)



6.22 Additional options

The product may be equipped with additional options.

The options are firmly mounted to the product by qualified personnel or the manufacturer and are pre-adjusted by qualified personnel at delivery.

6.23 Disassembly and transport

⚠ CAUTION

Exposed pinch points

Crushing, pinching due to incorrect handling

- ▶ When folding the mobility base for seating shells out or together, only grip by the specified components.

NOTICE

Deformation of the folded backrest

Problems unfolding due to unallowable loads

- ▶ Never rest heavy objects on the backrest when it is folded in.

INFORMATION

- ▶ When transporting the product in vehicles, fold it up and remove the legrests and drive wheels if necessary.
- ▶ Follow the IATA (International Air Transport Association) rules and those of the relevant airline when transporting the product in an aircraft. Inform the airline several days before your flight. Use the SSR (special service request) codes to describe the type of limited mobility if necessary. You can for example research these on the Internet.
- ▶ For more information please visit the www.iata.org website. The manufacturer recommends contacting the airline directly before every flight to obtain information regarding special transport regulations.

The product can be prepared for storage or transportation in a passenger vehicle.

Mobility base for seating shells with permanently mounted seating system / seating shell or seat plate

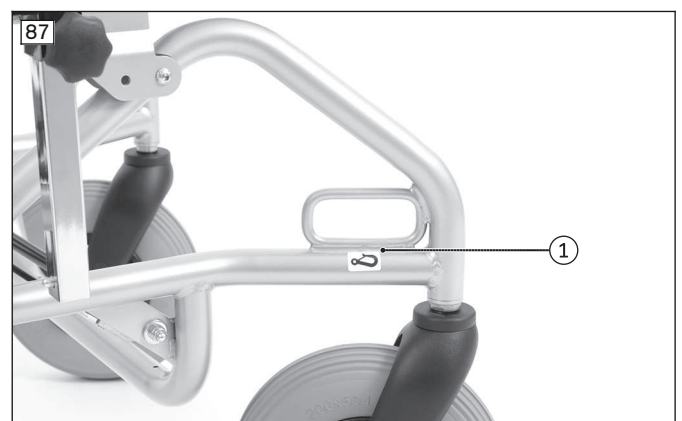
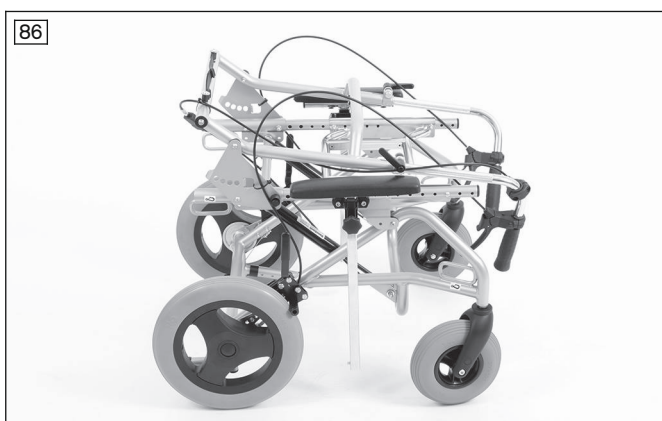
- 1) **Optional:** Remove the legrests (see Page 32).
- 2) For drive wheels with quick-release axle: Remove the drive wheels (see Page 28).

Mobility base for seating shells with removable seating shell / seating system via interface adapter

- 1) **Optional:** Remove the legrests (see Page 32).
- 2) Remove the seating shell / seating system (see Page 24).
- 3) Pull the release strap on the back frame (see fig. 20, item 1) and fold the back frame forwards (see fig. 86).
- 4) **Optional:** Slide the push handles / push bar together and turn them downwards if necessary (see Page 37).
- 5) For drive wheels with quick-release axle: Remove the drive wheels (see Page 28).

Securing in motor vehicles

Secure the product using straps at the 4 lashing points on the frame (see fig. 87, item 1) during transportation in a motor vehicle.



6.24 Use in vehicles for transporting persons with reduced mobility

⚠ WARNING

Use in vehicles for transporting persons with reduced mobility

Serious injuries in case of accidents due to user error

- ▶ Always use the seats and personal restraint systems in the vehicle for transporting persons with reduced mobility first. This is the only way to ensure optimum protection of passengers in the event of an accident.
- ▶ If the product is to be used as a seat in a vehicle for transporting persons with reduced mobility, the safety elements offered by the manufacturer and appropriate personal restraint systems must be used. For more information please refer to our brochure with the order number 646D158.

⚠ WARNING

Use of the belt system as a passenger restraint system in vehicles for transporting persons with reduced mobility is forbidden

Serious injuries due to improper handling of the product

- ▶ Under no circumstances may the belts and positioning aids offered with the product be used as part of a passenger restraint system in vehicles for transporting persons with reduced mobility.
- ▶ Note that the belts and positioning aids offered with the product are only intended to help support the user sitting in the product.

⚠ WARNING

Prohibited transportation of the passenger with activated back angle adjustment

Loss of safe restraint in the product due to user error

- ▶ Make sure the passenger is seated in a nearly upright position during transport.
- ▶ If a back angle adjustment mechanism is installed, move the backrest to a nearly upright position prior to travel.
- ▶ Move the seat tilt to a horizontal neutral position prior to travel.
- ▶ Check the locking mechanism on both sides.

The product may be used as a seat in vehicles for transporting persons with reduced mobility.

During transport in vehicles for transporting persons with reduced mobility, the product must be sufficiently secured with attachment straps.

The transport weight of the person being transported in a vehicle for transporting persons with reduced mobility is limited to the maximum total load capacity (weight with seating shell). Further information: see Page 55

6.24.1 Required accessories

If the product has been approved for transport in vehicles for transporting persons with reduced mobility, it is equipped with 4 lashing points on the frame (see fig. 87, item 1).

A belt set is required to secure the product for use as a seat in a vehicle for transporting persons with reduced mobility. The belt set can be obtained from a third-party manufacturer. For more information regarding suppliers please refer to the brochure on using Ottobock products in vehicles for transporting persons with reduced mobility, order number 646D158.

6.24.2 Using the product in the vehicle

The standard version of the product has been tested according to ANSI/RESNA and ISO 7176-19.

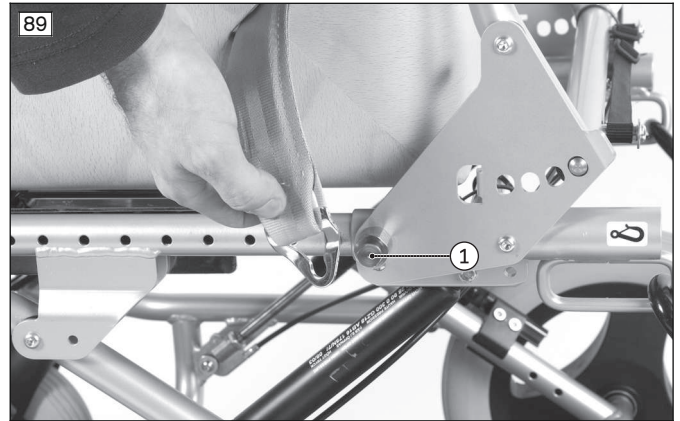
Securing the product in the vehicle for transporting persons with reduced mobility

- 1) Position the product in the vehicle for transporting persons with reduced mobility. For more information, refer to section 5 in the brochure "Transporting persons with reduced mobility", order number 646D158.
- 2) Hook the attachment straps into the lashing points at the front and back and tighten them (see fig. 88).

Placement of the restraint system integrated in the vehicle

- 1) Place the passenger in an upright seated position.
- 2) Pull each end of the restraint lap belt from the inner side of the seat between the upholstery and frame through to the outside.
- 3) Hook the end of the restraint lap belt onto the pin (see fig. 89, item 1).
- 4) Check that the belt strap is not twisted but rests flat against the passenger's body.
- 5) Tighten the strap, taking the user's comfort into account.

6) If required, attach the calf band to the frame and position the passenger's feet behind the calf band.



6.24.3 Restrictions for use

Before using the product as a seat in a vehicle for transporting persons with reduced mobility, some options need to be removed for safe transportation. Also note that certain settings on the product exclude the use of the product in a vehicle for transporting persons with reduced mobility. Further information: see Page 58

All options that are removed must be stored securely in the vehicle for transporting persons with reduced mobility.

6.25 Care

6.25.1 Care instructions

- Do not allow sand or other particles to get into the product. They could degrade the wheel bearings and the locking mechanism.
- Use in saltwater is not permitted.

6.25.2 Cleaning

- 1) Clean the padding and upholstery with warm water and a mild detergent.
- 2) Remove any spots with a sponge or a soft brush.
- 3) Rinse with clear water and let the components dry.

Important information on cleaning

- Do not use any aggressive cleaners, solvents or hard brushes etc.
- Clean plastic parts, frame parts and the chassis and wheels with a mild cleaner and a damp cloth. Dry thoroughly afterwards.
- Do not immerse in water. The seat and back upholstery as well as the seat cushion are not machine washable.
- For information on cleaning padding, see the care instructions on the product or the supplied instructions for use.

Cleaning a belt system with metal buckle

INFORMATION

Observe the washing recommendations on the product and the information in the corresponding instructions for use provided for the product.

- Belts with metal snaps may **not be washed in washing machines** as the penetration of water could cause corrosion and subsequent malfunctions.
- Clean the belt straps by gently dabbing them with warm soapy water (with some disinfectant) or carefully wiped with a dry, clean, absorbent cloth.

Cleaning a belt system with plastic buckle

- Depending on the model, straps with plastic buckles can be washed in the washing machine between **40 °C** and **60 °C**.
- Recommendation: Use a laundry bag or net and mild detergent.

INFORMATION

Alternatively, the belt straps can be cleaned by gently dabbing them with warm soapy water (with some disinfectant) or carefully wiped with a dry, clean, absorbent cloth.

Additional cleaning instructions

- Allow the belts to air dry. Ensure that the belts and pads are completely dry before installation.
- Do not expose the belts to direct heat (e.g. sunshine, stove or radiator).
- Do not iron or bleach the belts.

6.25.3 Disinfection

- Thoroughly clean the padding and handles before disinfecting.
- Wipe all components of the mobility base for seating shells with disinfectant.
- Only use colourless water-based disinfectants. Observe the instructions for use provided by the manufacturer.

7 Maintenance and repair

⚠ WARNING

Improper maintenance

Damage to health due to screw connections coming loose

- ▶ Check the tightness of the screw connections at regular intervals.
- ▶ Contact the qualified personnel promptly if defects are noted.

7.1 Maintenance

- The function of the product should be checked **before each use**.
- The product should not be used if defects are noted. This applies in particular in case of instability of the product or altered driving characteristics as well as problems with the user's seating position or the stability of the seat. Inform the qualified personnel promptly for the rectification of defects.
- This also applies if loose, worn, bent or damaged components, cracks in the frame or broken frame components are identified.
- Some maintenance tasks can be carried out to a certain extent by the user at home (see the sections "Maintenance intervals" and "Maintenance tasks").
- The manufacturer also recommends regular maintenance **every 12 months** by authorised, qualified personnel.
- Failure to maintain the product can lead to serious or life-threatening injury to the user of the product.
- Service and repairs may only be carried out by authorised, qualified personnel or the manufacturer. This will ensure that only Ottobock spare parts are used for repairs.

7.1.1 Maintenance intervals

The functions described below must be checked by the user or an attendant at the specified intervals:

Component	Task	Before each use	Weekly	Monthly
Main frame	Check that screw connections are tight			X
Seat frame	Check that screw connections are tight			X
Seating shell / seating system Interface adapter / seat plate	Check attachment to the seat frame / back		X	
	Check that removable seating systems are firmly locked	X		
Angle adjustment	Check the swivel axle for ease of operation			X
	Check that screw connections for angle adjustment are tight			X
	Check that the seat tilt locks securely		X	
Back	Check for firm attachment		X	
	Check that release bolts engage fully	X		
	Check push handles / push bar for firm fit and damage	X		
	Check back padding and back straps for firm fit and damage	X		
Head support	Check head support and joints for firm fit and damage	X		

Component	Task	Before each use	Weekly	Monthly
Drive wheels	Check attachment/axles for firm fit	X		
	Check for true running of the wheels			X
	For 22"/24" drive wheels: check spoke tension			X
Tyres	Check the tyre pressure (see "Technical data")		X	
	Check the tread depth (min. 1 mm)			X
Caster wheels	Check for firm attachment	X		
	Check that the fork is seated in the adapter without play			X
	Check that the mounting nuts are tight			X
	Check that the caster wheels turn freely (no dirt)	X		
Wheel locks	Verify braking function	X		
Legrest	Check ratchet mechanism for functionality and firm fit			X
	Check footplate for stability/damage			X
	Optional: check calf band / heel band for firm fit and damage			X
Side panel / arm-rests	Check for firm attachment	X		
	Check side panels / armrests for damage		X	
Padding/belts	Ensure padding is in good condition			X
	Check the mounting straps for wear		X	
	Verify the belt buckle functionality		X	
Anti-tipper	Check for functionality and firm fit		X	
	Check distance to the ground (min. 50 mm)			X
Thoracic supports	Check thoracic supports and accessories for firm fit and damage		X	
Bearings	Check for dirt		X	
Product	Check the legibility of all labels and markings on the product		X	

7.1.2 Maintenance tasks

To ensure smooth operation at all times, users or attendants with some technical skills can maintain some parts of the product:

- Bolted connections must be periodically checked for tightness, especially during the initial period of use or after adjustments have been made to the wheelchair. If a screw connection loosens repeatedly, contact the specialist dealer promptly.
- Hair and dirt particles generally accumulate between the caster wheel and fork. This can restrict the caster wheels from rotating smoothly. For this purpose, lubricate the caster axle between the caster wheel and caster fork with a few drops of thin, resin-free oil (sewing machine oil).
CAUTION: Do not remove the caster wheel yourself. If the caster wheel continues to not rotate smoothly, please contact the qualified personnel.
- The rear wheels (drive wheels) may have been configured as a quick-release axle system. To keep this system operational, ensure that no dirt adheres to the quick-release axle or receiver bushing. Periodically lubricate the quick-release axle very lightly with thin, resin-free oil (sewing machine oil).
- Rub the product dry if it gets wet.

7.2 Repair

7.2.1 Inner tube, rim tape and tyre replacement

⚠ CAUTION

Improper tyre replacement

Injuries to the user due to incorrect installation, product damage

- ▶ No person is permitted to sit in the wheelchair during tyre replacement
- ▶ Before removing a wheel, support the product so it cannot tip over.
- ▶ Always replace the tyres in pairs. Two differently worn tyres affect the directional stability of the wheelchair.

INFORMATION

When driving outdoors, always carry a repair kit and tyre pump (when using pneumatic tyres) in case of emergency.

Suitable tyre pumps are listed on the order form and are supplied with the product. An alternative is tyre foam, which fills your tyre and then hardens (available from bicycle shops, etc.).

The following specifications apply to special fabrication versions with 22"/24" wheels.

Repairing flat tyres requires only the necessary tools and users may change tyres themselves if they wish:

Removal and preparing for installation

- 1) Carefully remove the tyre from the rim using appropriate tools.
INFORMATION: Take care not to damage the rim or the inner tube.
- 2) Unscrew the valve nut from the valve and remove the tube.
- 3) Repair the tube according to the directions in the repair kit or replace it with a new tube.
- 4) Before fitting the tyre again, inspect the rim bed and tyre inner wall for foreign objects. This could have caused the puncture.
- 5) Before installing the tube, check that the rim band is in proper condition. The rim band protects the tube from being damaged by the ends of the spokes.



Replacing the rim band (only when necessary)

- 1) If the rim band needs to be replaced, remove it from the rim.
- 2) Install the new rim band on the inside of the rim, making sure the valve opening is in the right position.
- 3) Glue the rim band in place if this is intended. Ensure that all spoke ends are covered.

Installing the tube and tyre

- 1) Behind the valve, push one side of the tyre over the edge of the rim.
- 2) Slightly inflate the tube until it starts to assume its round shape.
- 3) Unscrew the valve nut from the tube and push the valve through the valve opening in the rim.
- 4) Insert the tube into the tyre.
- 5) Mount the other side of the tyre on the rim, starting from the position across the valve. Ensure that the tube is not pinched between the tyre and rim during this process.



Inflating the tube

- 1) Ensure that the valve is positioned perpendicularly for proper positioning of the tube and tyre in the region of the valve.
- 2) Firmly screw on the valve nut.
- 3) Inflate the tube so that the tyre can still be pressed in easily with your thumb.
INFORMATION: If the circumferential lines on the two sides of the tyre are both at an even distance from the rim, the tyre is centred. If not, let some air out and realign the tyre.
- 4) Inflate the tube to the maximum pressure specified by the tyre manufacturer (see information printed on the tyre sidewall).
- 5) Firmly screw the valve cap onto the valve.

7.2.2 Special features for wheels with PU tyres

If the PU tyres have to be replaced, the entire wheel also has to be replaced on both sides (in pairs).

8 Disposal

8.1 Disposal information

Return the product to the specialist dealer for disposal.

All components of the product must be disposed of properly in accordance with the respective national environmental regulations.

9 Legal information

All legal conditions are subject to the respective national laws of the country of use and may vary accordingly.

9.1 Liability

The manufacturer will only assume liability if the product is used in accordance with the descriptions and instructions provided in this document. The manufacturer will not assume liability for damage caused by disregarding the information in this document, particularly due to improper use or unauthorised modification of the product.

9.2 CE conformity

This product meets the requirements of the European Directive 93/42/EEC for medical devices. This product has been classified as a class I device according to the classification criteria outlined in Annex IX of the directive. The declaration of conformity was therefore created by the manufacturer with sole responsibility according to Annex VII of the directive.

9.3 Warranty

Further information on the warranty terms and conditions can be obtained from the qualified personnel that has fitted this product or the manufacturer's service (see inside back cover for addresses).

9.4 Service life

Expected service life: **4 years.**

The design, manufacturing and requirements for the intended use of the product are based on the expected service life. These also include the requirements for maintenance, ensuring effectiveness and the safety of the product.

Using the product beyond the specified expected service life leads to increased residual risk and should only take place subject to the due diligence and deliberations of qualified personnel.

If the service life is reached, the user or a responsible attendant should contact the qualified personnel who fitted the product or the manufacturer's servicing department (see inside rear cover or back page for address). Here the user can obtain information about known risks and the current options for refurbishing the product.

10 Technical data

INFORMATION

- ▶ Much of the technical data below is given in mm. Please note that product settings – unless otherwise specified – cannot be adjusted in the mm range but only in increments of approx. **0.5 cm** or **1 cm**.
- ▶ Note that the values achieved during adjustment may deviate from the values specified below. The deviation can be **±10 mm** and **±2°**.

INFORMATION

- ▶ All measurements indicated below are values which have been theoretically determined.
- ▶ Note that not all adjustment possibilities can be used with all wheelchair versions. Furthermore, the adjustment combinations are limited by the compact frame geometry.
- ▶ Technical changes and tolerances are reserved by the manufacturer.

General information

Discovery	
Max. load	110 kg (242 lbs)
Max. load when using a leg support with continuous foot support for seating shell interface (steel)	50 kg (110 lbs)
Max. load when using a leg support for short lower leg lengths	90 kg (198 lbs)
Max. load when using a parallel seating shell interface (frame width 360 mm)	75 kg (165 lbs)
Max. load when using a parallel seating shell interface (frame width 400 – 450 mm)	100 kg (220 lbs)

Discovery	Minimum	Maximum
Gross weight (without user)	18 kg	34 kg ¹⁾
Weight of the heaviest removable component:		
• Leg support with continuous foot support for seating shell interface	---	2.5 kg (5.5 lbs)
• Arm support, height-adjustable	---	1.9 kg (4.2 lbs)
• 24" drive wheel	---	1.8 kg (4 lbs)
• Leg support, elevating with ratchet joint	---	1.8 kg (4 lbs)
• 22" drive wheel	---	1.7 kg (3.7 lbs)
• Leg support, segmented, aluminium	---	1.6 kg (3.5 lbs)
Overall length (with 12" drive wheels) ²⁾	750 mm (29.5")	800 mm (31.5")
Overall length (with 22" drive wheels) ²⁾	875 mm (34.4")	925 mm (35.4")
Overall length (with 24" drive wheels) ²⁾	900 mm (36.4")	950 mm (37.4")
Overall width (with 12" drive wheels)	550 mm (21.7")	690 mm (27.2")
Overall width (with 22"/24" drive wheels)	570 mm (22.4")	710 mm (28")
Length (folded)	no deviation from overall length	
Width (folded)	no deviation from overall width	
Height (folded)	530 mm (20.9")	740 mm (29.1")
Static stability, uphill ^{3), 4)}	---	10° (17.6 %)
Static stability, downhill ⁴⁾	---	12° (21.3 %)
Static stability, sideways ⁴⁾	---	10° (17.6 %)

Discovery	Minimum	Maximum
Dynamic stability, uphill ⁴⁾	---	6° (10.5 %)
Seat bottom angle (seat tilt)	0°	35°
Effective seat depth	405 mm (16")	480 mm (19")
Effective seat width	360 mm (14.5")	500 mm (20")
Front seat height ⁵⁾	450 mm (17.7")	550 mm (21.6")
Back support angle	0°	30°
Back support height	440 mm (17.3") (standard)	620 mm (24.4") (extended)
Distance foot support to seat bottom ⁶⁾	130 mm (5.1")	350 mm (13.8")
Angle between leg support and seat bottom ⁷⁾	5°	85°
Distance arm support to seat bottom ⁶⁾	60 mm (2.4")	390 mm (15.4")
Distance front edge of arm support to front edge of wheelchair	140 mm (5.5")	145 mm (5.7")
Handrim diameter	490 mm (19.3")	540 mm (21.3")
Horizontal axle position	150 mm (5.9")	300 mm (11.8")
Minimum turning radius ⁸⁾	740 mm (29.2")	---
Adjustment range, push handles/push bars ⁹⁾	---	~ 200 mm (8")
Load capacity of storage bag (optional)	---	5 kg (11 lbs)

- 1) Encompasses the maximum installation of accessories, including tray
 2) Without seating unit and activated anti-tipper; varies depending on installed leg support
 3) 2 x anti-tipper mandatory with Care Chair version
 4) Depending on seat positioning
 5) At full tilt, with 12" drive wheels: 470 mm (18.5")
 6) Discovery with seat plate without seat cushion; other seating systems vary
 7) Depending on the type of leg support, maximum value with elevating leg support
 8) Discovery Standard with 360 mm frame width and 12" drive wheels; in accordance with ISO 7176-5
 9) Not with option of 600 mm back support height with deep back support bracket

Environmental conditions

Discovery	
Ambient temperature	-10 °C to +40 °C (14 °F to 104 °F)
Storage temperature	-10 °C to +40 °C (14 °F to 104 °F)
Relative humidity	45 % – 85 %

Permissible tyre pressure (for pneumatic tyres)

INFORMATION
Note the safety instructions regarding air pressure and tyres.

Wheel	Wheel size	Tyre pressure ¹⁾
Caster wheel	8"	2.5 bar (250 kPa; 36 psi)
Drive wheel	12"	2.5 bar (250 kPa; 36 psi)
	22"	2.5 bar (450 kPa; 65 psi)
	24"	6 bar (600 kPa; 87 psi)

¹⁾ see also print on the tyre wall

Additional information

Discovery	
Tyre types	Pneumatic or tubeless PU tyres
Front wheels	8"

Rear wheels / drive wheels	12"	22"	24"
Wheelbase	480 mm (18.9")	480 mm (18.9")	505 mm (19.9")
		530 mm (20.9")	480 mm (18.9")
			505 mm (19.9")
			530 mm (20.9")

Rear wheels / drive wheels	12"	22"			24"		
Seat tilt ¹⁾	0° – 35°	0° – 22.5°	0° – 35°	0° – 35°	0° – 17.5°	0° – 20.5°	0° – 35°
Frame width	360 mm (14.5")	400 mm (16")	450 mm (18")	500 mm (20")			
Distance between arm supports							
without spacers	370 mm (14.6")	420 mm (16.5")	470 mm (18.5")	520 mm (20.5")			
with spacers	420 mm (16.5")	470 mm (18.5")	520 mm (20.5")	590 mm (23.2")			
Transport weights²⁾							
Frame with 12" rear wheels	18 kg (39.7 lbs)	18.5 kg (40.8 lbs)	19.5 kg (43 lbs)	20 kg (44.1 lbs)			
Frame with 22"/24" drive wheels	26 kg (57 lbs)	26.5 kg (58.4 lbs)	27 kg (59.5 lbs)	27.5 kg (60.6 lbs)			
22" drive wheel (pair)	3.4 kg (7.5 lbs)						
24" drive wheel (pair)	3.6 kg (7.9 lbs)						

¹⁾ with standard installation of compression springs. The adjustment range can be limited to 15° with the custom fabrication version with 22"/24" drive wheels and lashing points.

²⁾ Discovery Standard without leg supports, arm supports and seating unit; the specified weights vary according to the selected options and model.

11 Appendices

11.1 Threshold values for wheelchairs transportable by train

INFORMATION

- ▶ The products in this series fully satisfy the minimum technical requirements of regulation (EU) No. 1300/2014 regarding train accessibility for people with disabilities. However, not all versions can comply with all threshold values due to different settings.
- ▶ With the help of the table that follows, you or the qualified personnel can take measurements and verify whether the specific product in question meets the threshold values.

Feature	Threshold value (according to Directive (EU) No. 1300/2014)
Length [mm]	1200 (plus 50 mm for the feet)
Width [mm]	700 (plus 50 mm on each side for the hands when moving)
Smallest wheels ["]	approx. 3 or greater (according to the directive, the smallest wheel must be able to overcome a gap measuring 75 mm horizontally and 50 mm vertically)
Height [mm]	max. 1375; including a 1.84 m large male wheelchair user (95th percentile)
Turning radius [mm]	1500
Maximum weight [kg]	200 (for wheelchair and user, including any baggage)
Maximum obstacle height that can be overcome [mm]	50
Ground clearance [mm]	60 (at an upward slope angle of 10°, ground clearance must measure at least 60 mm under the footrest for going forward at the end of the slope)
Maximum inclination angle on which the wheelchair will remain stable [°]	6 (dynamic stability in all directions) 9 (static stability in all directions, also when wheel lock engaged)

11.2 Restrictions on use in vehicles for transporting persons with reduced mobility

⚠ WARNING

Risk of accidents and injury due to using the product with certain settings and/or installed options

Severe injury in case of accidents due to options coming loose

- ▶ Before using the product as a seat in a vehicle for transporting persons with reduced mobility, remove options that need to be taken off for safe transportation. Please observe the following table.
- ▶ Stow all dismantled components securely in the vehicle for transporting persons with reduced mobility.
- ▶ Please note that certain settings on the product exclude the use of the product in a vehicle for transporting persons with reduced mobility.

Option ¹⁾	Transportation in a vehicle for transporting persons with reduced mobility not possible	Option must be removed	Secure option on product
Custom fabrication version with 22"/24" drive wheels	X		
Head supports	X		
Armrests		X	
Back angle adjustment			X ²⁾
Elevating legrest			X ³⁾
Seat tilt			X ⁴⁾
Lap belt			X ⁵⁾
Tray		X	
Storage bag		X	

- 1) Not all of the options named are installed on all products.
- 2) Move the backrest to the upright position and check that it is locked on both sides.
- 3) Fully lower the elevating legrest.
- 4) Move the seat tilt to the horizontal position.
- 5) The lap belt can be used to position the passenger during transportation. Using the personal restraint system is nevertheless required.

11.3 Required tools

The following tools are required for adjustments and maintenance work:

- Allen key 4 – 6 mm
- Tyre lever
- Tyre pump



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Kundenservice/Customer Service

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