



**SORC**  
Rollstuhltechnik

**User Manual**

# **Loop<sup>SORC</sup>** **Type 802**



## **IMPRINT**

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## **REVISION STATUS**

Revision from September 15, 2015

## **TECHNICAL STATUS**

Technical changes and misprints reserved. The pictures in this user manual can – depending on the individual equipment – differ from the actual equipment components. However, a corresponding conduction is possible.



## **rehaKIND**



We are a member of rehaKIND e.V.  
International association  
child and adolescent rehabilitation

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## **CERTIFICATION**

We are certified according to the Quality Management System ISO 90001:2008 under the certificate no. 12 100 20070 at TÜV SÜD.

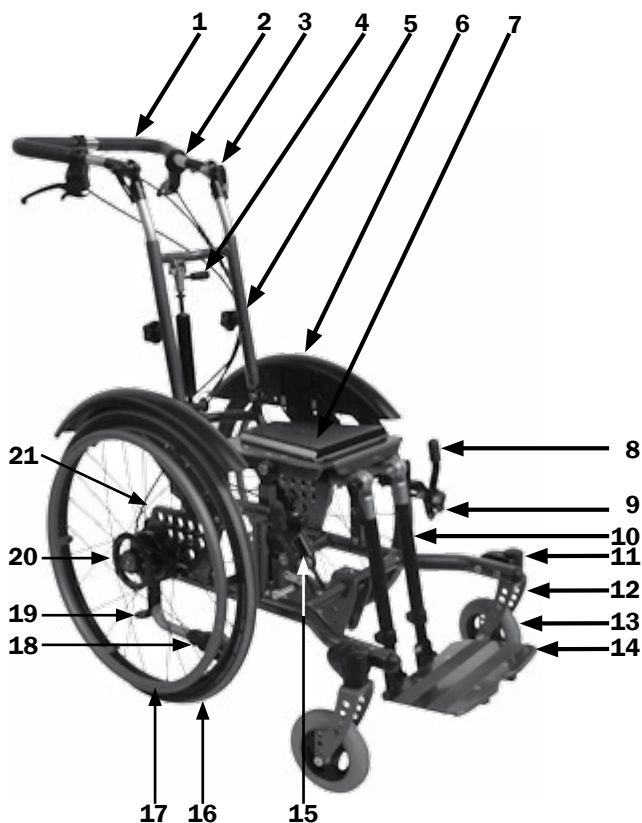


## Table of contents

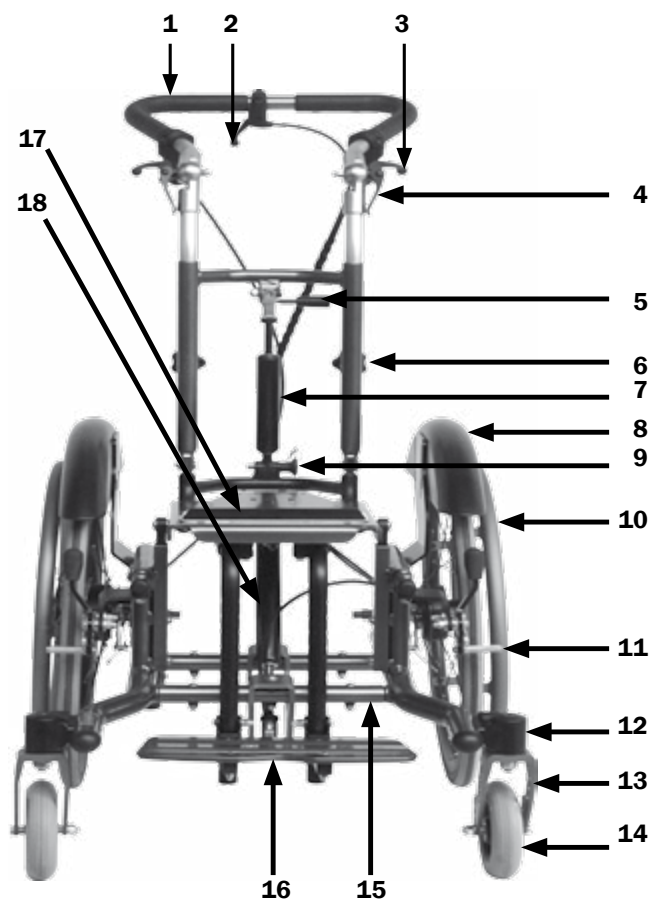
<b>REVISION STATUS</b>	2	<b>3.4.8 Back guide for the seat shell</b>	18
<b>TECHNICAL STATUS</b>	2		
<b>rehaKIND</b>	2	<b>3.5 Leg Support</b>	19
<b>COPYRIGHT</b>	2	<b>3.5.1 Standard leg support</b>	19
<b>CERTIFICATION</b>	2	with a continuous or divided footrest	19
<b>Wheelchair Overview</b>	4	<b>3.5.2 Leg support can be elevated</b>	19
		with a continuous or divided footrest	19
<b>1 Preamble</b>	<b>5</b>	<b>3.5.3 Multidirectional leg support</b>	19
<b>1.1 General Information</b>	5	with a divided footrest	19
<b>1.2 Signs and Symbols</b>	5	<b>3.5.4 Leg support: detachable and</b>	
<b>1.3 Indication</b>	5	swings to the side, continuous or	
<b>1.4 Counter Indications</b>	5	divided footrest	20
<b>1.5 Specification Loop</b>	5	<b>3.5.5 Leg support: detachable, can be</b>	20
<b>1.6 Application</b>	6	elevated and folded to the side	20
<b>1.7 Reception</b>	6	<b>3.5.6 Locking</b>	20
<b>1.8 Documentation</b>	6		
<b>1.9 Service and Maintenance</b>	6	<b>3.6 Brakes</b>	21
<b>1.10 Accessory and attachment drives</b>	7	<b>3.6.1 Drum brake as driving brake</b>	21
		<b>3.6.2 Drum brake as wheel lock</b>	21
<b>2 Safety Instructions</b>	<b>7</b>	<b>3.6.3 Knee lever brake (wheel lock)</b>	21
<b>2.1 General Indications</b>	7	<b>3.6.4 Locking the wheel lock</b>	22
<b>2.2 Handling</b>	8	<b>3.6.5 Reverse gear stop</b>	22
<b>2.2.1 Getting in and out</b>	8	<b>3.6.6 Anti-tipper</b>	22
<b>2.2.2 Starting and slowing down</b>	8		
<b>2.2.3 Risk of tipping and flipping over</b>	8	<b>3.7 Seat Shell</b>	23
<b>2.2.4 Up and downhill</b>	8	<b>3.7.1 Putting on/Securing</b>	23
<b>2.3 Grabbing objects</b>	9	<b>3.7.2 Removing/Unlocking</b>	23
<b>2.4 Overcoming obstacles</b>	10	<b>3.7.3 shortening/extending the</b>	
<b>2.5 Wheel lock</b>	10	release lever	23
<b>2.6 Anti-tipper</b>	11	<b>3.8 Outdoor Front End</b>	
<b>2.7 Casters</b>	11	(push aid for outside)	24
<b>2.8 Loading and transporting</b>	11	<b>3.9 Baggage Holder</b>	24
<b>2.8.1 Transport in public transportation</b>	12		
<b>2.8.2 Transport in other vehicles</b>	12	<b>4. Repairs and Maintenance</b>	<b>25</b>
<b>2.9 Other Risks</b>	12	<b>4.1. Repairs</b>	25
		<b>4.2 Spare parts</b>	25
<b>3. Handling</b>	<b>13</b>	<b>4.3 Disposal</b>	25
<b>3.1 Wheels</b>	13	<b>4.4 Tire Change</b>	25
<b>3.1.1 Quick-Release Axle Wheels</b>	13		
<b>3.1.2 Drum brake wheels</b>	14	<b>4.5 Maintenance</b>	26
<b>3.2 casters</b>	14	<b>4.5.1 Cleaning and Care</b>	26
<b>3.3 Special hand rims</b>	15	<b>4.5.2 Disinfection</b>	27
<b>3.3.1 Knob hand rims</b>	15	<b>4.5.3 Reinstatement</b>	27
<b>3.3.2 Hand rim covers /</b>			
<b>Maxgrepp hand rims</b>	15	<b>4.6 Service/Inspection</b>	27
		<b>4.6.1 Check list</b>	27
<b>3.4 Back</b>	16	<b>4.6.2 Check list yearly inspection</b>	28
<b>3.4.1 Tilting</b>	16	<b>4.6.3 Service List</b>	28
<b>3.4.2 Positioning the back angle</b>	16		
<b>3.4.3 Adjusting the back angle</b>	16	<b>4.7 Technical Data</b>	30
<b>3.4.4 Push handle height adjustment</b>	17	<b>4.7.1 Measurements and Dimensions</b>	30
<b>3.4.5 Adjusting the push height</b>	17	<b>4.7.2 Label Meanings</b>	30
<b>3.4.6 Push handle angle adjustment</b>	17	<b>4.7.3 Measurements Loop<sup>SORG</sup></b>	30
<b>3.4.7 Folding the back part down</b>	18	<b>4.8 Documentation Yearly Inspection</b>	31

## Wheelchair Overview

### overview Loop<sup>SÖRG</sup>



1. height adjustable push bail
2. control lever for drum brake
3. eccentric clamp to adjust the angle of the push bail
4. gas spring to adjust the angle of the back
5. star knob screw to adjust the height of the push bail
6. wheel cover
7. wedge and wedge adapter
8. brake lever of wheel lock and knee lever brake
9. brake pressing bolt of the wheel lock
10. length adjustable tube of the leg support
11. caster adapter
12. caster fork
13. caster fork
14. footrest
15. gas spring for seat tilting
16. rear wheel
17. handrim
18. anti tipper caster
19. lever for the anti tipper
20. hub of the low-friction drum brake wheel
21. hole plate



1. height adjustable push bail
2. release lever for seat tilting
3. control lever for drum brake
4. eccentric clamp to adjust the angle of the push bail
5. control lever to adjust the angle of the back
6. star knob screw to adjust the height of the push bail
7. gas spring to adjust the angle of the back
8. wheel cover
9. locking pin to remove the gas spring
10. handrim
11. brake pressing bolt of the wheel lock
12. caster adapter
13. caster fork
14. caster
15. suspension element to widen the frame
16. footrest (foldable backwards)
17. universal adapter to connect seat shell wedge
18. gas spring for seat tilting



# 1 Preamble

## 1.1 General information

The wheelchair has been built, adjusted and given to you operable according to your individual instructions. A qualified Technician will make any changes necessary, should modification be needed during use.

As any other aid, a wheelchair is a technical device that can hold risks if not properly used. This brochure is to help you familiarize yourself with the wheelchair and its functions.



### ATTENTION

**Read the following instructions and manuals carefully.**

User manual

Info-brochure Crash Test ISO 7176-19



### ATTENTION

**If the user of the wheelchair is a child or a person with limited competence, the parents or authorized supervisor have to make sure that they have fully understood the handling of the wheelchair before it is first used.**

If you have any questions your medical supply store or our competent team is glad to assist you (+49 07254/92790).

This user manual is directed to both you and your rehab technician. It contains instructions on the correct adjustments of Loop to your physical situation.

## 1.2 Signs and symbols



### ATTENTION

This is how **individual-related** safety aspects of **utmost importance** are indicated.

### ►► INDICATION

This is how possible **indications** of **utmost importance** are labelled.



### INFORMATION

This is how **INFORMATION** on mounting and adjustment work is labelled.



### READ

This refers to other chapters within the brochure or to additional material.

### BOLD PRINT

Text in bold print highlights important passages or remarks.

## 1.3 Indication

Loop is indicated

- in the pediatric and geriatric area for all therapy forms for changing position and positioning of immobile and mobile persons
- in house and stationary area for up righting the patients from a lying position to an upright sitting position and to preserve and/or rebuild other functions,
- to stimulate and strengthen the whole metabolism, the nervous system and/or the whole cardiovascular system
- to preserve, rebuild and to activate the whole muscle tone or individual muscle groups
- to reactivate after a severe concussion
- to build and to strengthen the whole bone structure
- to slow the process of progressive scoliosis
- to regulate all forms of dyskinesia ( e.g. missing/limited head control)
- by all dystrophic or atrophic muscle changes
- by all forms of Paresis and/or neuromuscular sicknesses

## 1.4 Counter indications



### ATTENTION

**The active and/or passive use of Loop must be explicitly cleared by the handling doctor or therapist under the following circumstances and/or symptoms:**

- **User without intact skin,**
- **with severe tonicity deregulation.**

### ►► INDICATION

**We are not liable for health problems and/or other damages on persons or objects that occurred from using the Loop, despite the above described conditions.**

## 1.5 Specification Loop

Loop is a seat shell base frame that grows with your child, which is adjustable for children, adolescents and adults with the following details:

- **3 frame sizes** with four frame widths each (each frame width is adjustable by a max. of 4 cm),
- **Frame size 1** frame width 30-42 cm in 4 cm intervals (usable width = frame width + 4 cm) suitable at a seat depth of 32 cm,
- **Frame size 2** frame width 34-46 cm in 4 cm intervals (usable width = frame width + 4 cm) suitable at a seat depth of 38cm,
- **Frame size 3** frame width 38-50 cm in 4 cm intervals (usable width = frame width + 4 cm) suitable at a seat depth of 44cm,
- **Back** height an optional 43 or 58 cm,
- **Back unit** is adjustable a min. of 6 cm

- **Tilting** is optionally adjusted from -5° to +35° or +2,5° to +40° (without modification tools),
- a later fitting with a **second gas pressure spring** is already prepared,
- **The back** of the seat shell is optionally, continuously adjustable with a gas pressure spring or mechanical in about 7,5° **intervals**,
- a numerous amount **of leg supports**, e.g. pivotable outward and completely removable or in a physical rotation angle pivotable upward and removable or freely set and three dimensionally pivotable upward
- **Leg support affiliation** can be adjusted forwards a min. of 6 cm,
- modification of grip-tire-wheels to 12" wheels or opposite is possible at anytime, even afterwards,
- optional open or **closed frame** in the front.

## 1.6 Application

### **ATTENTION**

The wheelchair serves solely to actively or passively transport the person to whom the wheelchair has been adjusted for by a qualified specialized trade.

It can be used on firm ground without any restrictions indoors and outdoors. With suitable equipment (e.g. outdoor front end) the wheelchair can also be used on surfaces such as sand, cobblestones, gravel etc.

### **ATTENTION**

The allowed load capacity (including seat shell) is not to be exceeded.

### **ATTENTION**

The wheelchair cannot be used in extremely wet surroundings (shower, sauna etc.) or salt water nor can it have excessive contact with moisture.

### **ATTENTION**

The wheelchair must not be used as means of transportation for goods, objects and the like.

### **INFORMATION**

Regular maintenance and care (after chapter 4) is necessary for the guaranteed service life of the wheelchair.

## 1.7 Reception

### **PLEASE NOTE DELIVERY**

Each wheelchair is mounted, tested for functionality and correctness in our works and packaged into special cardboard boxes by our shipping experts.

### **FORWARDING COMPANY**

For liability reasons we have to ask you to check the wheelchair immediately after receiving it and in the presence of the deliverer (forwarding company) for possible damages that may have occurred during transportation.

### **TRANSPORTATION DAMAGES**

In case of damage, please proceed as follows:

- write a short record of the damage and review of events, if possible include pictures clearly showing the damage,
- get the personal information of the bearer (driver's license etc.),
- inform us immediately.

### **►► INDICATION**

Do not sign the notice of receipt from the forwarding company before thoroughly checking the wheelchair for defects.

### **►► INDICATION**

According to the valid law, damages reported late can neither be asserted to us nor to the forwarding company.

## 1.8 Documentation

### **►► INDICATION**

Keep this user manual in a safe place. Have all work/repairs done on your wheelchair documented by the medical supply store in the maintenance plan. If applicable, hand it back to your benefactor along with the wheelchair.

### **►► INDICATION**

In the event of the wheelchair being reused, the service book is an important source of information for you benefactor. It provides evidence of regular inspections which might be relevant in the event of warranty claim.

### **ATTENTION**

For safety reasons have all repairs done and documented solely by a qualified specialized trade.

## 1.9 Service and Maintenance

### **READ**

According to § 33 subparagraph 1, clause 4, [German] SGB V, the responsibility of maintenance, repairs and replacement lies with the benefactor. After agreement with your benefactor, be sure to

have all safety relevant inspections, maintenance work and if necessary repairs conducted in order to make the wheelchair functional.

### **ATTENTION**

Be careful with all moveable parts since there is a **RISK** of crushing fingers and other body parts.

### **ATTENTION**

The regular inspection of all safety relevant parts on the wheelchair by a qualified rehab workshop is the only way to prevent damages and maintain our liability.

### **ATTENTION**

Only original parts are to be used for all service and maintenance work.

### **INFORMATION**

Proceed according to the maintenance plan in chapter 4 of this user manual.

## **1.10 Accessory and attachment drives**

### **ATTENTION**

The addition of these accessory and attachment drives is done by either the manufacturer or the sanitary house and solely in their responsibility.

### **INFORMATION**

Ask the manufacturer for the respective requirements.

## **2 Safety Instructions**

### **2.1 General indications**

#### **ATTENTION**

The risk of injuries occurs on all rotatable and turning parts. This also goes for adjustment and repair work.

#### **READ**

Before use read this user manual thoroughly

#### **ATTENTION**

The wheelchair can only be used according to its specifications. Any other use or misuse can contain serious risks for you and your surroundings. Also the guarantee or product liability can be terminated in case of misuse.

Slowly familiarize yourself with the wheelchair at the first use and after adjustment work has been done. First practice on level grounds with the help of an experienced person. Only then are you allowed to try uphill and downhill with the help of an experienced person.

From putting on and taking off the accessories the measurements of the wheelchair, its weight, the handling and the tilting changes.

Even with a back tilt >90° the wheelchair can still tip backwards on a flat surface. This also applies, to a special degree, to a tilted seating position.

#### **ATTENTION**

The wheelchair can **ONLY BE USED**, in a **TILTED POSITION** and/or a **BACK TILT >90°**, when the **ANTI-TIPPER IS ACTIVATED**.

#### **ATTENTION**

All building alterations on your wheelchair must be coordinated and made by the manufacturer or your rehab technician.

#### **ATTENTION**

Do not make any adjustments, repairs and/or do maintenance work yourself. Contact your qualified medical store.

#### **READ**

Consider the indications for maintenance and inspection on your wheelchair at the end of the operating instructions.

## 2.2 Handling

### 2.2.1 Getting in and out

#### ⚠ ATTENTION

(1) Getting in and out can only occur on a flat surface and with **ACTIVATED WHEEL LOCK**. Activate the tilt safety for each transfer and always turn the casters forwards in order to enhance the stability.

#### ⚠ ATTENTION

(2+3) **NEVER** use the footrest/s to get in and out. Please fold (when possible) the footrest/s to the side or to the back in order to get closer to the wheelchair.

#### ► INDICATION

(3) For some children it is asked for, therapeutically, that they get in and out on their own by using the footrest. In this case consider the following:

- turn casters forward,
- secure the wheelchair from rolling away,
- activate tilt safety,
- be ready to give assistance.

### 2.2.2 Starting and slowing down

#### ⚠ ATTENTION

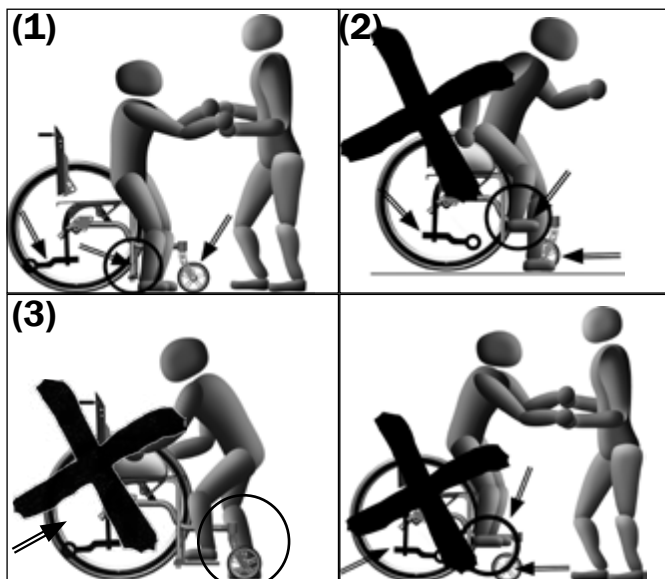
Avoid jerky starts. The wheelchair could tip backwards. When possible, lean your upper body forward when starting. With children we always recommend to use the tilt safety whenever possible.

#### ⚠ ATTENTION

In order to brake on a hill, an essentially higher amount of strength is needed. Only go slow enough on hills that the wheelchair can be brought to a full stop at anytime.

#### ⚠ ATTENTION

Hand rims heat from friction. If necessary, use leather gloves as used for cycling but **NEVER** wool gloves.



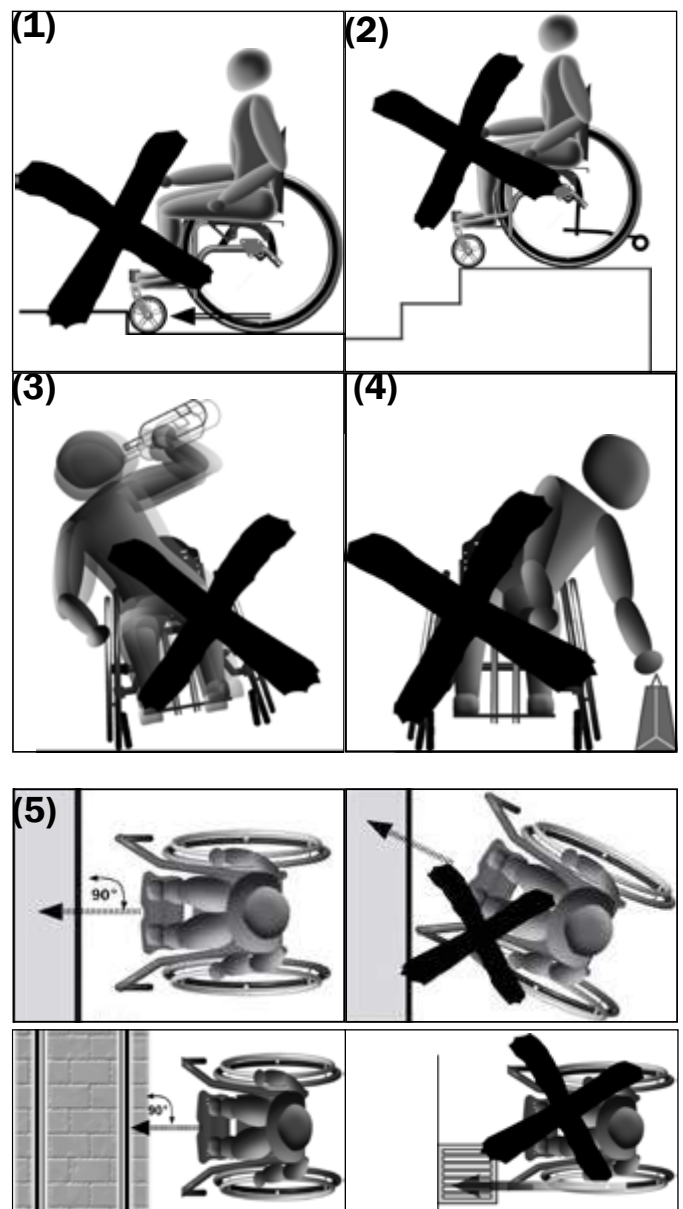
### 2.2.3 Risk of tipping and flipping over

#### ⚠ ATTENTION

Danger of tipping and flipping from:

- (1) all kinds of height differences of the ground surface,
- (2) stairs (never manage alone),
- (3) participating in public traffic under the influence of medication, drugs, alcohol, etc.,
- incline and/or emphasis of different things on the back,
- (4) leaning out of the wheelchair,
- (5) driving or longitudinal grooves (always cross streetcar rails etc. at a 90° angle),

driving with a tilted seat,  
driving up or down hill with a tilted seat or a back angle >90°.





**⚠ ATTENTION**

Keep in mind the higher strain in order to drive/push or brake going up or down a hill.

**⚠ ATTENTION**

Before EACH use make sure to check the reliable effectiveness of the drum brake (and if available the wheel lock).

**⚠ ATTENTION**

The seat and back unit must be in a vertical 90° position when driving up and down hill.

**⚠ ATTENTION**

(1) If possible, the user should tilt his upper body when driving up or down hill in the direction of the hill.

**⚠ ATTENTION**

Only go up ramps or hills with an incline or descent greater than 6% with assistance.

**⚠ ATTENTION**

NEVER go on ramps or hills WITHOUT the anti-tipper activated.

**⚠ ATTENTION**

(2) NEVER drive on inclines, descents or curbs sideways to the road, you may tip over.

Grabbing objects requires much practice and experience. Slowly familiarize yourself, with the help of an experienced and strong person, with this action.

(3) In order to grab objects from the side/in front of the wheelchair

- secure the wheelchair from rolling away,
- do not lean too far out of the wheelchair,
- hold on (if possible) with your free hand,
- when possible, try not to put all your weight in the direction of where you are reaching.

(4) If you have to lean forward out of the wheelchair, **NEVER STRAIN THE LEG REST, RISK OF FLIPPING OVER!**

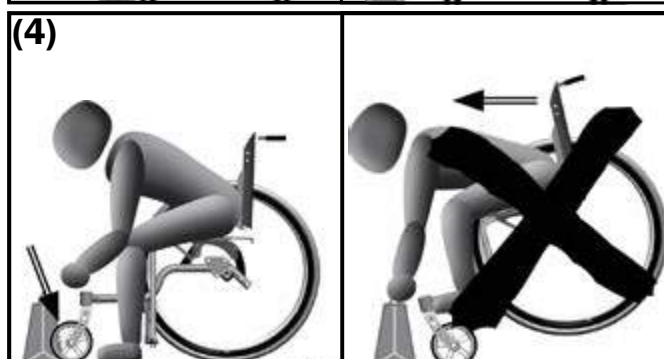
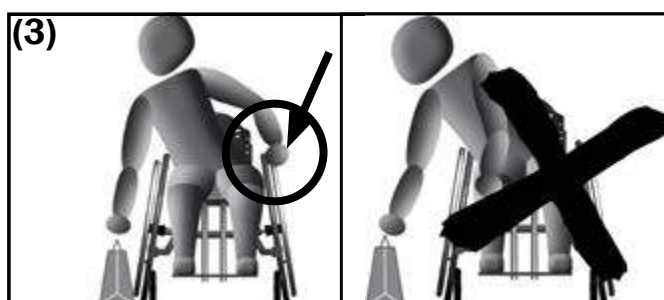
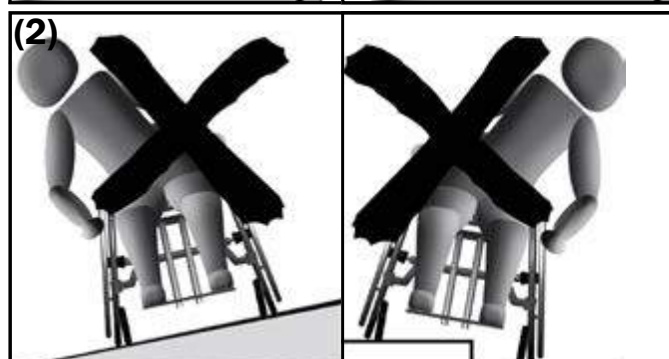
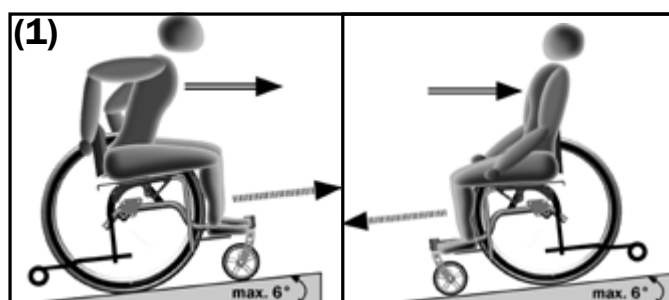
- For a better position turn the casters forward by driving back a little bit,
- put both feet (if possible) on the ground, preferably as far from you as possible,
- secure yourself (if possible) with your free hand, preferably far back,
- try to put your weight in the direction of where you are reaching as little as possible.

**► INDICATION**

Generally, using a reacher is safer.

**⚠ ATTENTION**

Do not grab objects behind the wheelchair reaching over the back of the chair, **RISK OF FLIPPING OVER.** Turn the wheelchair around and go towards the object from the front or the side.



## 2.4 Overcoming obstacles

**A WHEELCHAIR IS NOT FOR CARRYING.** For this reason avoid stairs! Whenever possible, ramps or elevators should be used to overcome height differences.



**ATTENTION**  
**BE SURE THAT THE ECCENTRIC CLAMP OF THE ANGLE ADJUSTABLE PUSH HANDLES ARE CLOSED TIGHTLY AND OPERATIVE.**



**ATTENTION**  
**NEVER CARRY THE WHEELCHAIR BY THE SEAT SHELL, THE LEG SUPPORT AND/OR THE FOOT REST/S.**



**ATTENTION**  
**(1) NEVER overcome stairs etc. with the wheelchair ALONE.**



**ATTENTION**  
**(2+3) Only overcome stairs with the help of two experienced people. For this, the anti-tipper must be deactivated. Be sure that the wheelchair is only held by metal parts which are bolted securely to the frame.**



**ATTENTION**  
**Do not under any circumstance use escalators, not even with a carer. Shopping malls and public buildings with escalators always have elevators as well.**



**ATTENTION**  
**Do not drive towards, for example, curbsides without braking, RISK OF TIPPING OVER!**



**ATTENTION**  
**(4) In order to overcome height differences or when using an elevator and lifting platform you generally have to deactivate the anti-tipper. You could become restricted in maneuverability.**

**(5) In order to overcome curbsides your carer should slightly tilt you backwards, lift both casters over the threshold and then, with the rear wheels, carefully push the wheelchair over the edge. The anti-tipper must be deactivated.**

When driving off of the curb please proceed correspondingly, but consider:



**ATTENTION**  
**For this, the casters must stay in the air until the rear wheels are over the threshold. DO NOT put the casters down first, RISK OF FLIPPING OVER.**

## 2.5 Wheel lock



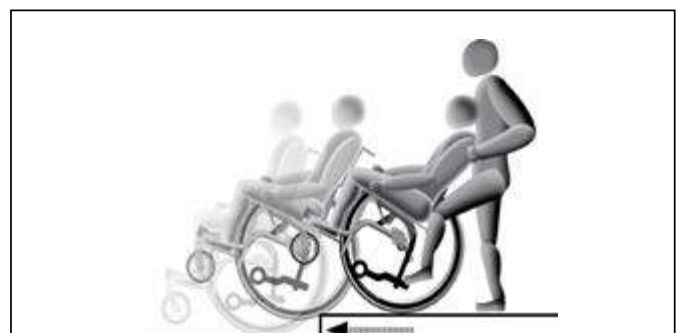
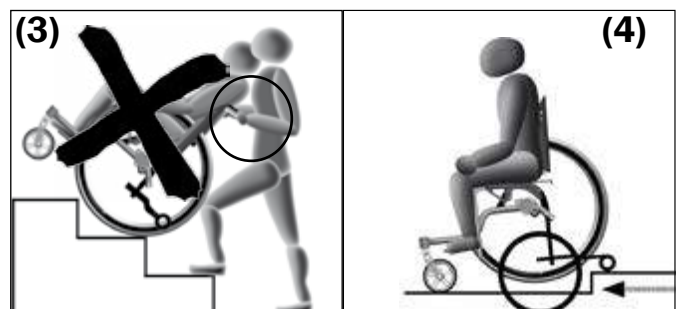
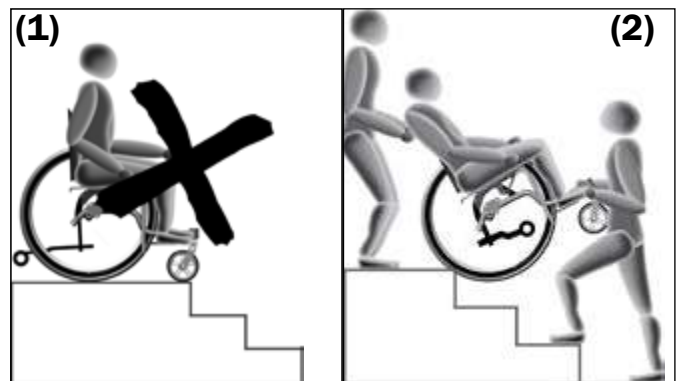
**ATTENTION**  
**THE KNEE LEVER BRAKES ARE ONLY THERE TO PUT THE WHEELS IN A RESTING POSITION. THEY ARE NOT DESIGNED TO SLOW THE WHEELCHAIR DOWN WHILE DRIVING.**

With a service brake, for example a drum brake, controlled braking is possible.



**ATTENTION**  
Before each (longer) drive make sure to check

- the correct tire pressure (information is on the outer tire)
- and if need be, the brake pressing bolt.



**⚠ ATTENTION**

Cable controls are high-maintenance! The clamp screws on the Bowden cable need to be checked on a regular basis and retuned if necessary. Check the functionality of the brakes regularly! The wheelchair with passenger (highest loading) must safely stand still with pulled brake on a ramp with 7° (=12,3%) descent.

**⚠ ATTENTION**

Dirt, wetness, ice, snow, mud etc. can impair the brake force of the wheel lock.

**⚠ ATTENTION**

Do not make repairs on the wheel lock yourself. Ask your rehab technician.

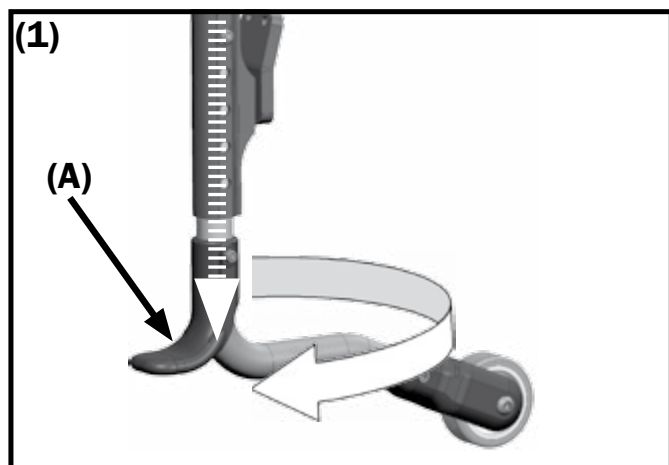
**2.6 Anti-tipper****⚠ ATTENTION**

We recommend inexperienced and young users to use the anti-tipper whenever possible.

**⚠ ATTENTION**

Deactivate the anti-tipper when overcoming height differences by elevators or lifting platforms.

**(1+2)** In order to activate the anti-tipper, secure the wheelchair from rolling away, push the foot lever (A) of the anti-tipper down and turn it 180° on its own axis until it snaps back into the guide slot.

**2.7 Casters****⚠ ATTENTION**

Casters which are not correctly adjusted or driving too fast, especially downhill, can cause the casters to dangerously flap back and forth.

**►► INDICATION**

Clean the axes and the axle holder regularly, removing lint and dirt.

**ℹ INFORMATION**

After every change on the rear wheels the casters must be newly adjusted. Let this be done by an experienced rehab technician.

**►► INDICATION**

When transferring in and out of the wheelchair turn the casters forward for greater stability by slightly moving the wheelchair backwards.

**2.8 Loading and transporting**

For the transport of you wheelchair in a car please consider the following points:

- If necessary flip the anti-tipper inwards.
- If necessary remove the push handle/s or handle bars.
- If possible remove the hollow molded back and fold the back down.
- If possible fold the wheelchair and close it securely with the folding fixture strap.
- Unlock the wheel lock and remove the rear wheels.
- Secure the wheelchair with tension belts in the vehicle.
- The tension belts can only be secured on fixed frame parts. Foot rests, side guards, back or seat adapters are not suitable for this.
- Secure all removed parts of the wheelchair in the vehicle so that they cannot hurt anyone in case of sudden braking.

**⚠ ATTENTION**

There is a risk of getting hurt from loose, flying objects such as leg supports, seat shells, wheels, sticks, bags etc.

Inform yourself by your car salesman about safely securing the wheelchair with lashing eyes or other suitable safety measures in your vehicle before transporting the wheelchair.

### 2.8.1 Transport in public transportation

In every public transportation, a spot must be provided to place the wheelchair according to the EG-guideline 2001/85/EG.



#### ATTENTION

**The spot in public transportation is only arranged for EMPTY wheelchairs.**



#### ATTENTION

**Place the wheelchair in the provided area opposite the driving direction so that the backrest and a side guard rest securely on the edge of the provided area.**

- The wheelchair is not allowed to shift in case of an accident.
- Close the wheel lock.
- During the drive leave the wheelchair and seat yourself in the provided seat next to the spot for your wheelchair.
- If available, use the seat belt!

Let someone help you get in and out of the public transportation,

- so that you don't get stuck in the crack between the door and the sidewalk,
- so that you don't panic,
- so that your claim for the marked seat possibly gets more emphasis,
- so that you can be helped getting into the seat and tying down the wheelchair.

### 2.8.2 Transport in other vehicles

Wheelchairs can never reach the stable features of a firmly mounted car seat because of their purpose and light build.



#### ATTENTION

**Thus, we recommend you to NOT use the wheelchair as a seat while transporting in a vehicle.**



#### READ

**Read our info-brochure "Crash Test ISO 7176-19". Here, the potential dangers and regulations of the ISO 7176-19 are described.**



#### ATTENTION

**Only wheelchairs that have successfully passed a dynamic crash test according to ISO 7176-19 are allowed to be used as a seat in a vehicle.**

Our successfully tested wheelchairs are provided with this international symbol on the type sign and are additionally marked on our order form with our "crash test button".

If necessary, inform yourself by your retailer or under [www.sorgrollstuhltechnik.de](http://www.sorgrollstuhltechnik.de), if your model is approved as a seat in a vehicle.



### 2.9 Other risks

#### ►► INDICATION

**Avoid direct sunrays. Dark parts on the wheelchair can heat quickly and can possibly cause burns.**



#### ATTENTION

**FIRE RISK from the textile parts (seat shell covering or plastic parts). Keep sources of ignition away from the wheelchair.**

#### ►► INDICATION

**For sensitive skin we recommend to wear gloves as used for cycling (finger stalls with a leather inner surface—but NEVER wool gloves)**



#### ATTENTION

**RISK OF HAND INJURY from turning parts. Do not grab in between the spokes of the rear wheel or between the rear wheel and the knee lever brake.**



#### ATTENTION

**Do not use the wheelchair in damp rooms or drive in salt water with it. Important parts may corrode and not work properly anymore, whereby the driving qualities or the lifespan of the wheelchair are negatively influenced.**





### 3. Handling

#### 3.1 Wheels

##### 3.1.1 Quick-release axle wheels

All of our rear and 12" wheels are equipped with quick-release axles for fast removal.

**(1+2)** To release or apply the quick-release axle, push the lock button **(A)** in the middle of the wheel hub. After applying, the lock ball **(3)** must be completely in sight at the end of the quick-release axle and the wheels should not be able to be removed.

Be sure to regard the following points:

- Wheels are turning parts and can cause injuries to fingers.
- After fastening the wheels check the secure hold of the quick-release axle.
- **(3)** Check the small lock ball (tension spring) **(A)** at the end of the quick-release axle to be sure it functions properly
- Verify the air pressure of the rear wheel regularly to ensure functionality!
- Verify the tight position of the spokes regularly (according to maintenance plan).

#### **ATTENTION**

The position of the rear wheel in the axle plate can only be changed by a qualified retailer. This influences the centre of gravity (tilting) and the proper functioning of the knee lever brake.

Do not place fingers between the rear wheel and the hand rim. (Grooved wheels with integrated hand rims make this impossible.)

Take caution by tight passages: You can bruise your fingers **(4)** and/or damage the hand rims **(5)**!

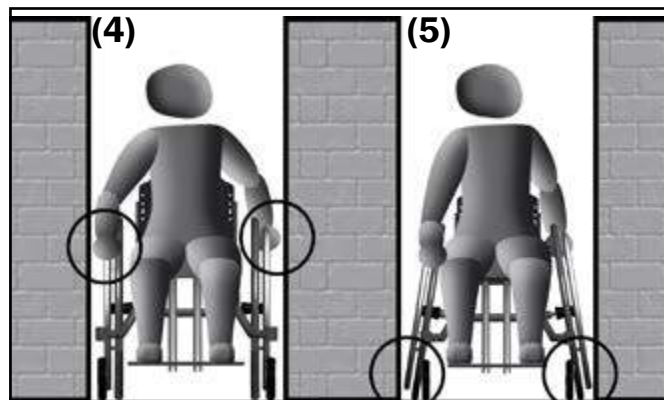
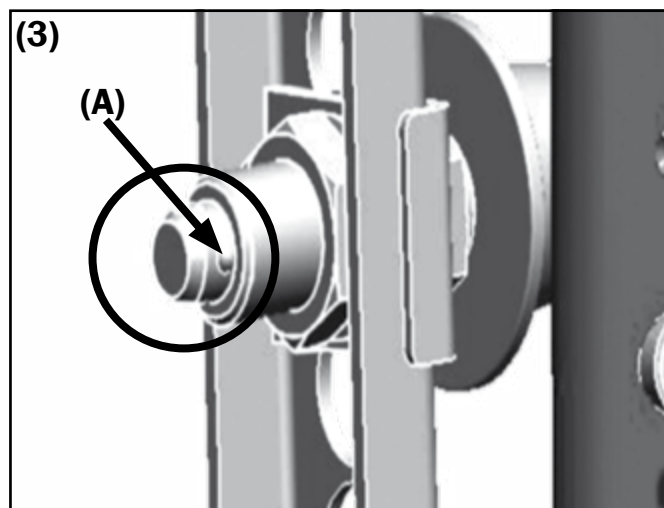
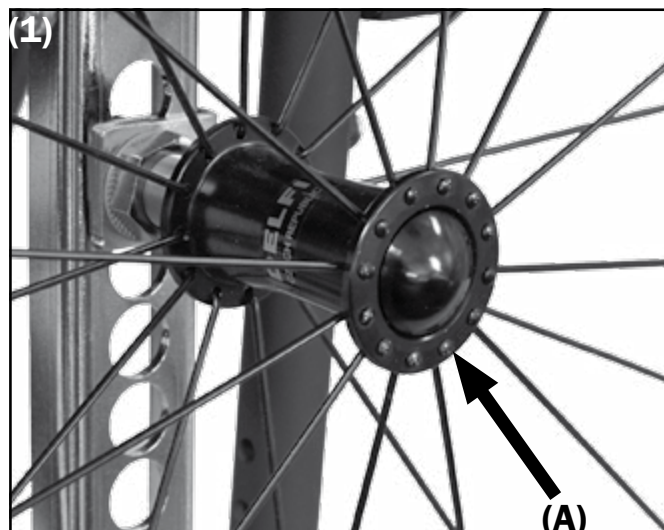
When braking with the hand rims heat occurs through friction. If need be, wear leather gloves as used for cycling.

Check the screws and the secure placement of the hand rims regularly, according to the maintenance plan.

Check the secure placement of the spokes regularly, according to the maintenance plan.

Through strong sunbeams the tires can heat up to over 42° and you could burn yourself.

During the transportation to a mechanic secure the loose wheels so that they will not harm anybody in case sudden braking of the vehicle is necessary.





### 3.1.2 Drum brake wheels

(1) The drum brake wheels can also be removed with a quick-release axle. To apply or remove, proceed as described with the rear wheels.

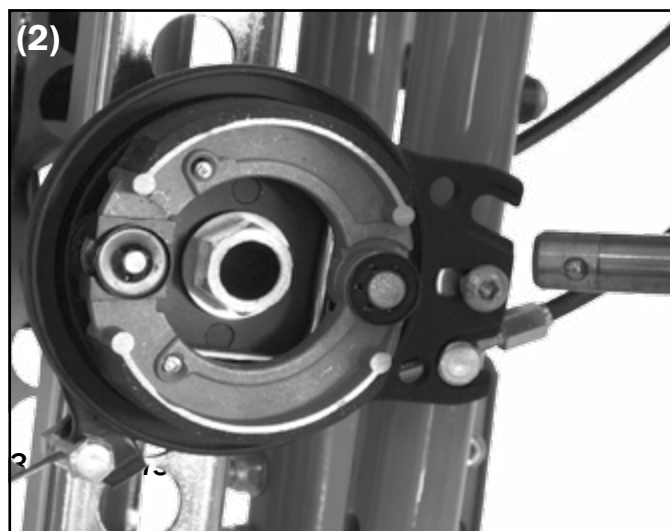
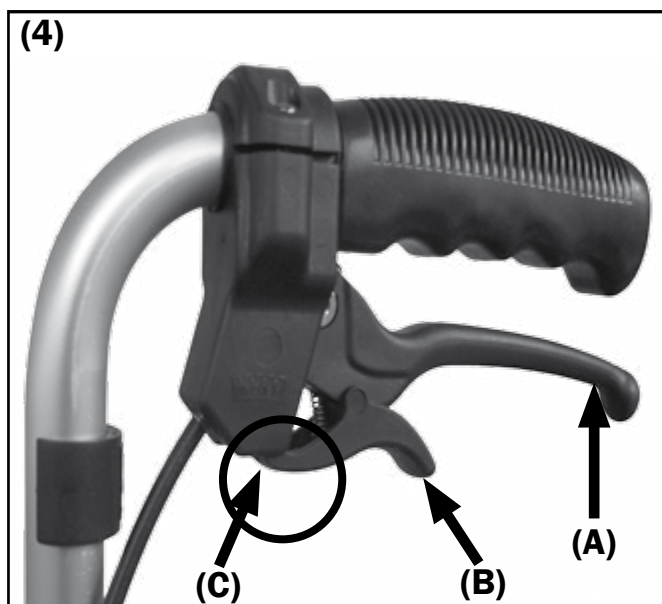
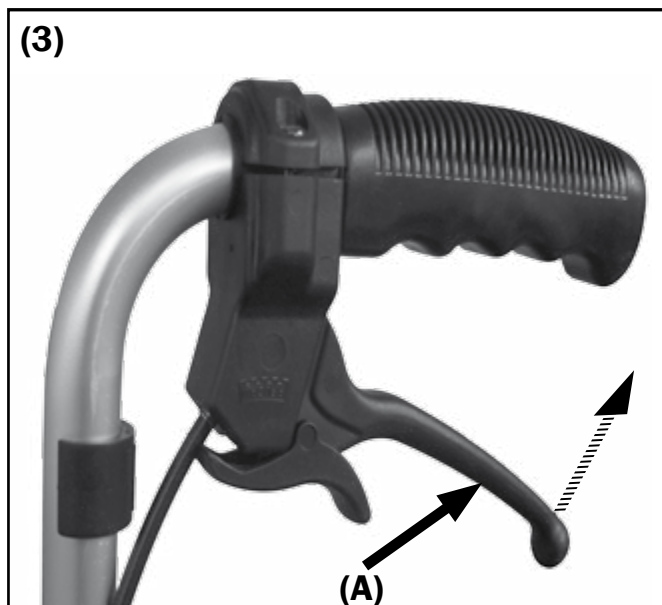
#### **⚠ ATTENTION**

(2) The drum brake wheels' brake pads are extremely sensitive and can lose their functionality from dirt or scratches on the brake pads. Remove lint and dirt from the brake pads regularly with a soft brush.

(3) The drum brake wheels are operated by the carer over the two levers on the push handles. To slow the ride down squeeze both levers simultaneously (A).

(4) To secure the wheelchair, pull both levers (A) up and latch the small lock levers (B) in the grooves (C). The drum brakes are now blocked.

To unlock the blockage pull both brake levers (A) a little bit higher to unlock the small lock levers (B).



**⚠ ATTENTION**

After a collision a qualified retailer must immediately check the wheelchair for possible damages and if necessary make repairs. At the first sign of the casters shaking (especially during fast drives or on slopes) slow down.

Precede the same with casters with a change set as with the quick-release axles of the rear wheels.

**⚠ ATTENTION**

When applying the quick-release axle make sure to check the tight fitting!  
Caster axles, forks and quick-release axles should be freed from lint and dirt regularly.

**Locking**

(1) In order to **unlock** the casters, pull the locking bolt (A) forward and turn it 90° so that it clasps in the lock groove (B).

(2) In order to **lock** the casters, pull the locking bolt (A) forward a little more, turn it 90° and let it slide into the guide slot (C).

At the next turn of the casters the bolts will automatically clasp into a forward position and lock them for driving straight ahead.

**3.3 Special hand rims****3.3.1 Knob hand rims****⚠ ATTENTION INJURY RISK!**

Regard that the knob hand rims turn when you are being pushed!

**⚠ ATTENTION**

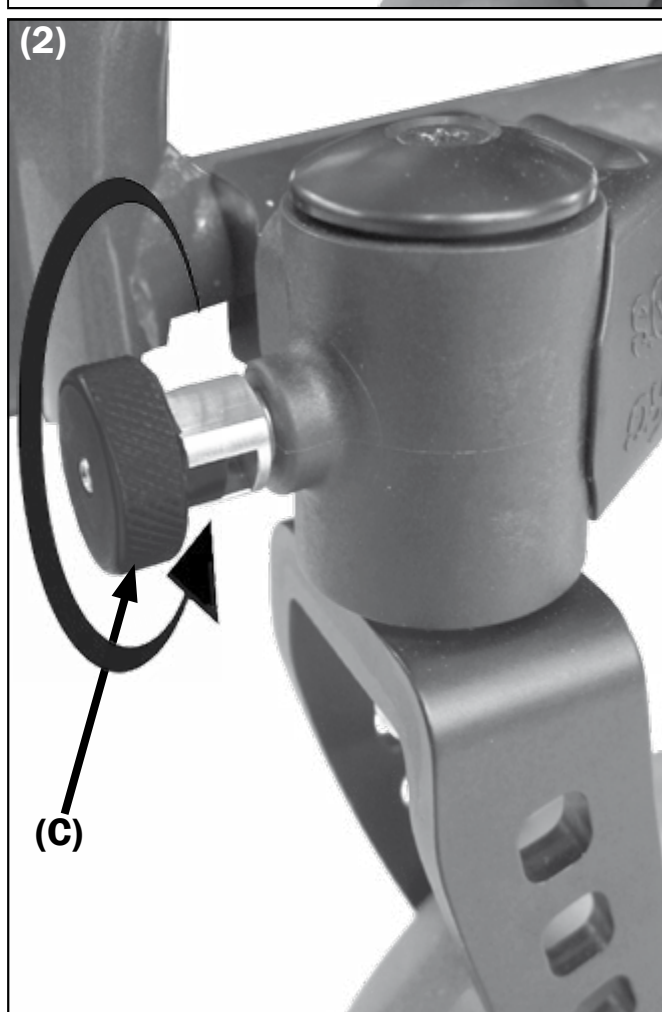
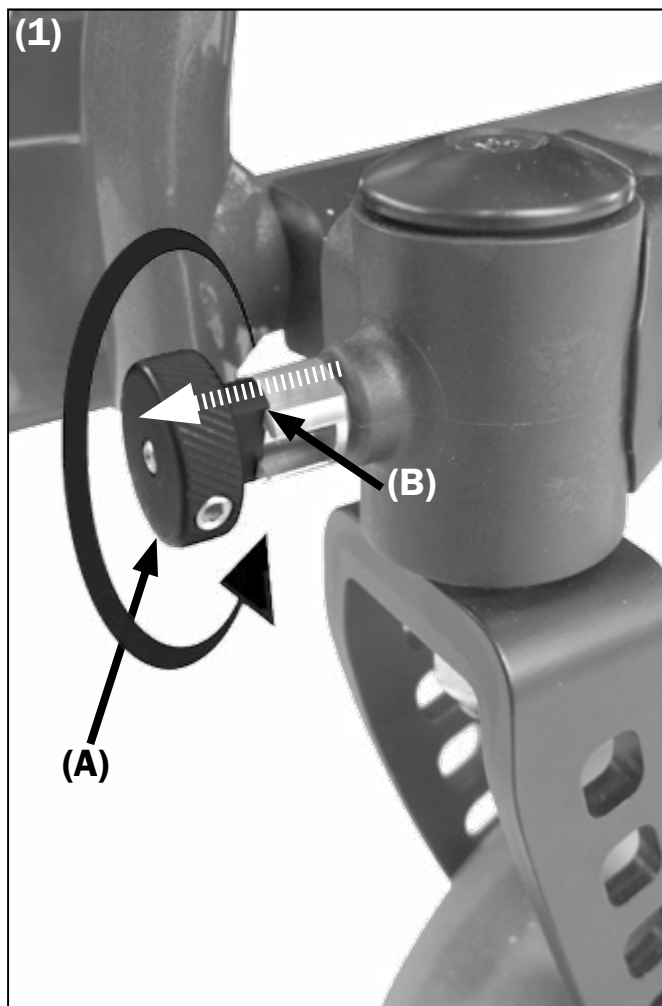
Braking with pressure on the hand rims is no longer possible. This applies especially when driving downhill. Let an experienced and strong carer assist you.

**3.3.2 Hand rim covers / Maxgrepp hand rims****⚠ ATTENTION**

All hand rim covers and the Maxgrepp hand rim are made out of several black synthetic materials and can heat to over 42° in the sun.

**⚠ ATTENTION**

Under unfavorable circumstances the black coatings can stretch from heat and can detach from the hand rim.



### 3.4 Back

#### ⚠ ATTENTION

The tilt stability of the Loop depends on the components of the seat and back:

- tilting degree
- back angle
- push handle
- position of the back unit

#### ⚠ ATTENTION

The seat and back angle can only be adjusted to more than 90° on a flat, hard surface.

#### ⚠ ATTENTION

Do not hang things (such as bags etc.) on the push handle; especially not in a tilted position and /or a back angle >90°.

#### ⚠ ATTENTION

NEVER CARRY the wheelchair over an obstacle by the push handle when someone is seated in it.

#### ⚠ ATTENTION

Only let your rehab technician adjust the position of the back tube! After every change, familiarize yourself, with assistance, again with the back adjustment and tilting behavior.

### 3.4.1 Tilting

(1) To release the tilt function, carefully pull the lever (A) up and squeeze it until the desired position is reached.

#### ⚠ ATTENTION

(1) When loosening the tilt lever (A) the whole weight of the user is released. ALWAYS activate the anti-tipper before tilting.

#### ⚠ ATTENTION

NEVER OPERATE THE TILT MECHANISM DURING THE DRIVE

#### ⚠ ATTENTION

(2) The tilt lever can only be operated when the locking pin (B) is securely in its holder (3). At the end is a locking lug (A) that needs to visually stick out.

#### ⚠ ATTENTION

NEVER leave a user in a tilted seat shell base frame and/or with a back angle >90° unattended.

### 3.4.2 Positioning the back angle

#### (2) for seat shells with secure back angle

Your rehab technician adjusts the back angle on the back angle of the seat shell in version 1. Do not change the screwing (A).

### 3.4.3 Adjusting the back angle

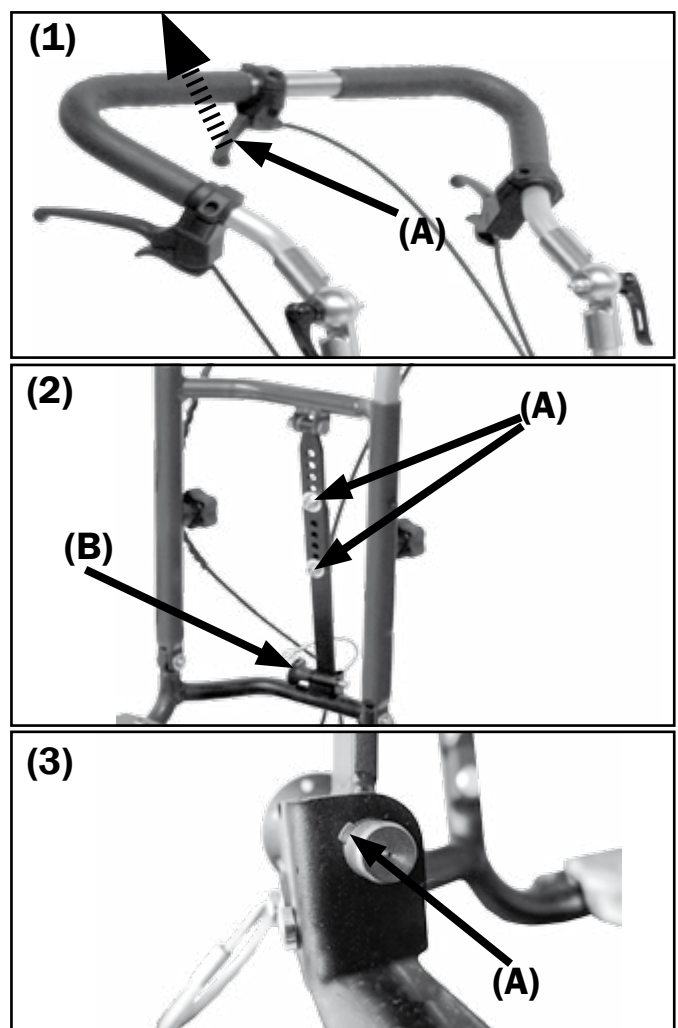
#### (3) For seat shells with variable back angle

To adjust the back angle (see (4) on the next page)

- secure the wheelchair from rolling away,
- make sure that the seal element (B) is tightly in the bracket (C) and is locked,
- (3) the locking lug (A) of the seal elements has to be visually sticking out of the pin on the opposite side.
- carefully squeeze the lever (A),
- while squeezing the lever, put the back in the position wanted (A),
- let go of the lever.

#### ⚠ ATTENTION

Only change the back angle on a flat surface, with the anti-tipper activated and closed wheel lock.





### 3.4.4 Push handle height adjustment

- (4) In order to adjust the height
- loosen the star knob screws (D),
  - adjust to the desired height and then turn the star knob screws (D) tightly.

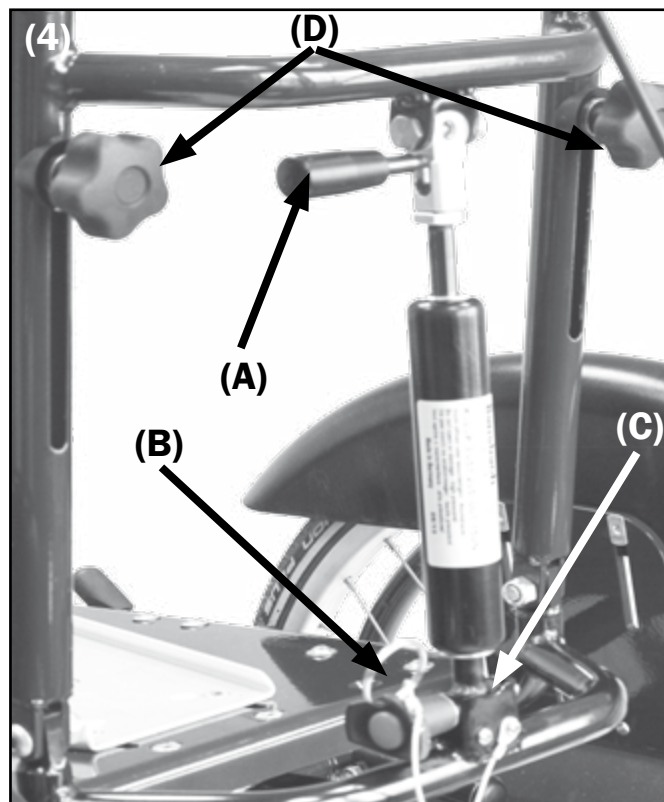
#### **ATTENTION**

The push handles are only to be used to **PUSH** someone in the chair; **NOT TO CARRY THEM**:

### 3.4.5 Adjusting the push height

(5) At delivery the height of the push handle is in the lowest basic setting for a normal pushing height. You are able to change the height up to 10 cm higher.

- Remove the star knob screws (A) completely on both sides (including half shells),
- slide the push handle up far enough so that the holes (B) become visual in the guide slot at the bottom end of the section tube.
- place the star knob screws (A) (including half shells) in both of these holes (B) and tighten them.



### 3.4.6 Push handle angle adjustment

In addition to the height adjustment of the push handle, you can also change the angle.

- (6) Open the eccentric clamps (A) on both sides of the push handle,
- adjust the handle to the position wanted
- and lock the eccentric clamps (A) again.

#### **ATTENTION**

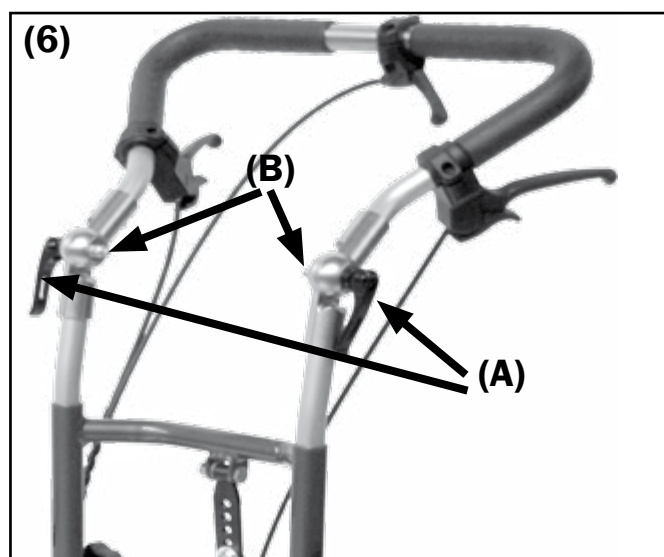
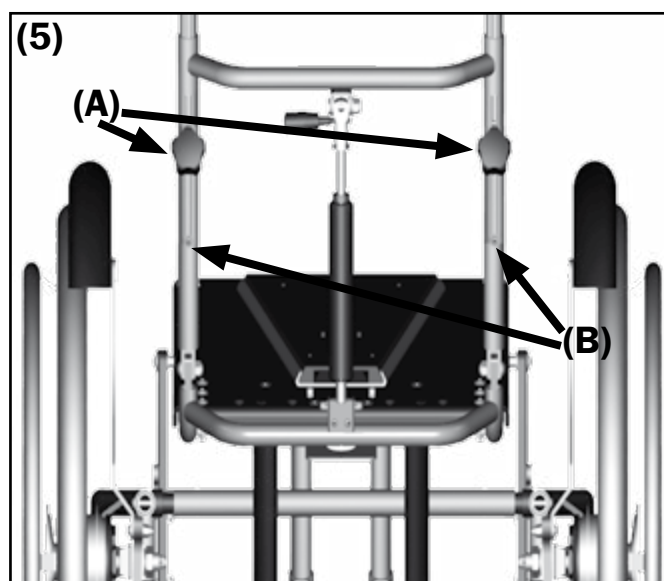
(6) The clamp lever (A) of the eccentric clamps is attached on the inside of the handle with a self-locking nut (6)

#### **ATTENTION**

(6) Under unfavorable circumstances by turning the clamp lever (A) the nut (B) can loosen and get lost. THE PUSH HANDLE IS THEN NO LONGER OPERATIVE.

#### **ATTENTION**

Check the functionality and the completeness of the eccentric clamp regularly and in short intervals!



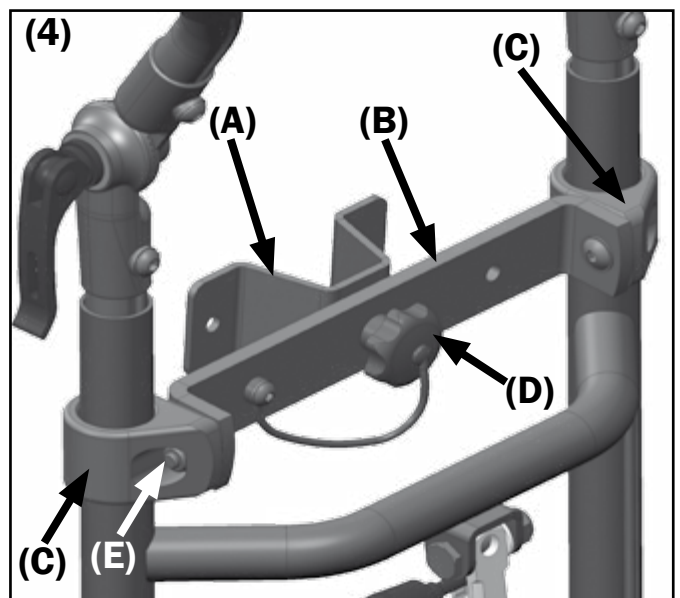
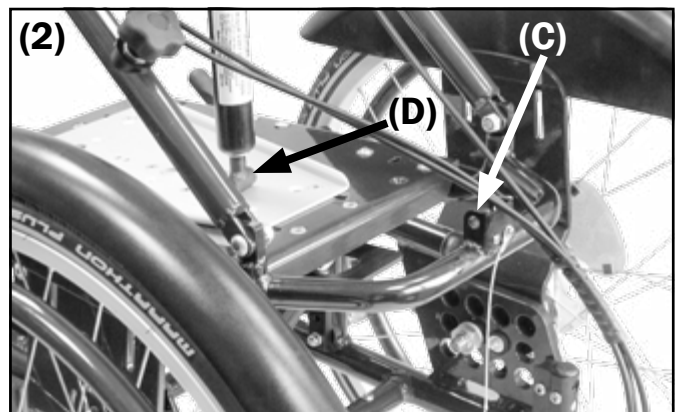
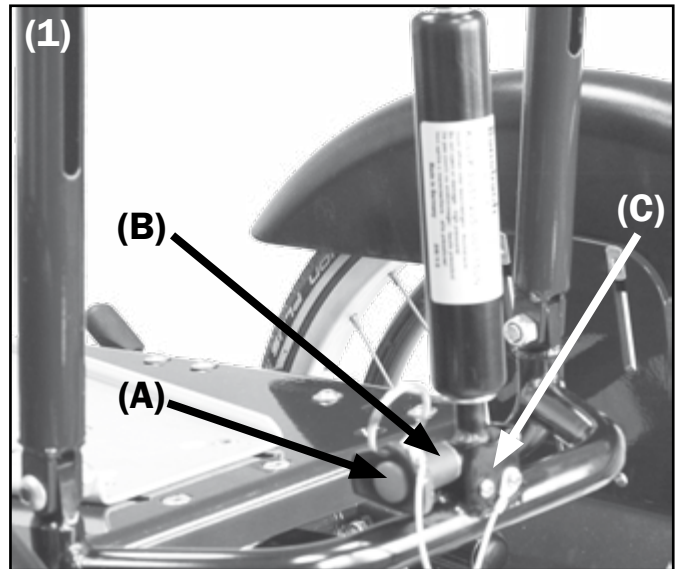
### 3.4.7 Folding the back part down

**(1+2)** To fold it down

- place the push handle in the lowest position (because of the Bowden cables for tilting and drum brakes),
- press the red button **(A)** on the plug bolt **(B)** and
- holding the button, pull it out of its holder **(C)**.
- Now you can fold the back down towards the front.

To put the push hands back in

- raise the push handle,
- glide the bolt end **(D)** back into the holding **(C)** and
- place the plug bolt **(B)**, while pushing the red button **(A)**, back into the holding **(C)**.
- **(3)** The locking lug of the plug bolt has to be visibly sticking out of the opposite end of the holder **(C)** (see picture 3, chapter 3.4.1).



### 3.4.8 Back guide for the seat shell

**(4+5)** In order to set the back guide

- bring the shell back with connection part **(A)** in a vertical position,
- place the lever **(B)** of the back guide element in the guide rail, by the star knob **(F)**,
- turn the lever **(B)** on the star knob **(F)** 90° until the spring pressure pieces **(D)** snap into the guide slots **(E)**.
- To remove, proceed correspondingly



### 3.5 Leg support

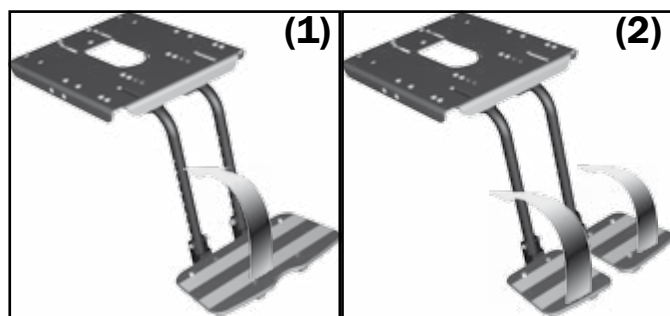
All leg supports are adjusted to your measurements by your rehab technician. Should there be modifications necessary please contact him.

**⚠ ATTENTION**  
**AT NO POINT WHEN IN USE SHOULD THE WHEELCHAIR BE LIFTED OR EVEN CARRIED BY THE LEG SUPPORTS.**

**► INDICATION**  
**Adjustment or alignment work should only be done by your experienced rehab technician.**

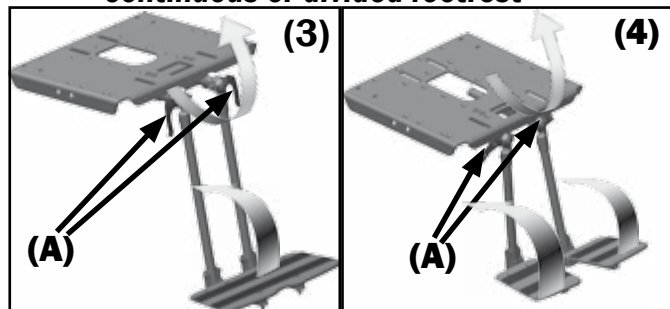
**⚠ ATTENTION**  
**Do not get in to the wheelchair over the footrest.**  
**INJURY RISK**

#### 3.5.1 Standard leg support with a continuous or divided footrest



**(1+2)** To get in or out, flip the footrest backwards in order to get closer to the seat and lock it if necessary. As soon as the user is safely seated in the wheelchair lift their legs, flip the footrest forwards (unlocking it if necessary) and position their feet.

#### 3.5.2 Leg support can be elevated with a continuous or divided footrest



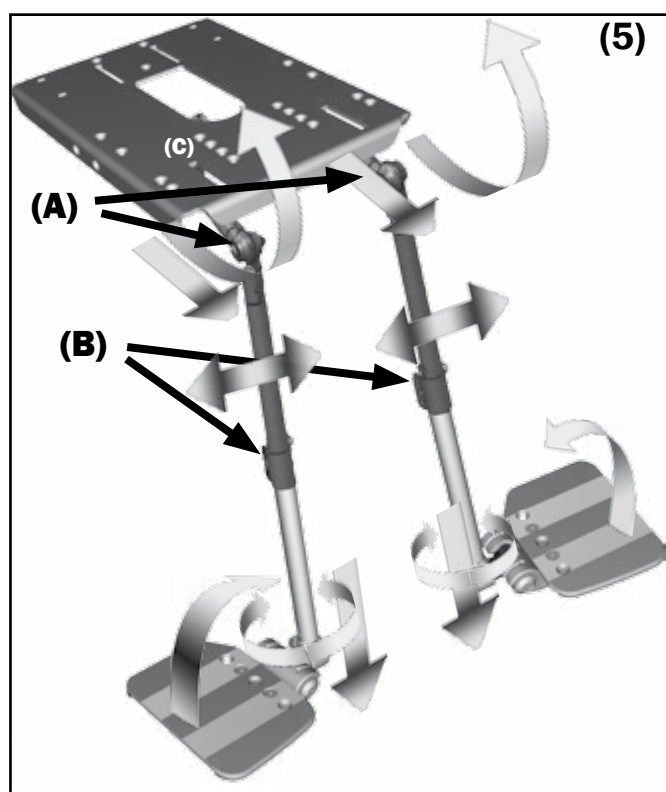
**(3+4)** To get in or out, proceed as above. To elevate the leg support the open eccentric clamp **(A)** on both sides, place the leg support in the wanted position, lock both clamp levers **(A)** tightly and place the user's legs on top.

To compensate the length open the star knob screw/s **(B)**, place the footrest in the wanted position and lock the star knob screw/s tightly.

**⚠ ATTENTION**  
**Check the eccentric clamp (A) on the angle adjustment elements regularly, for functionality and completeness.**

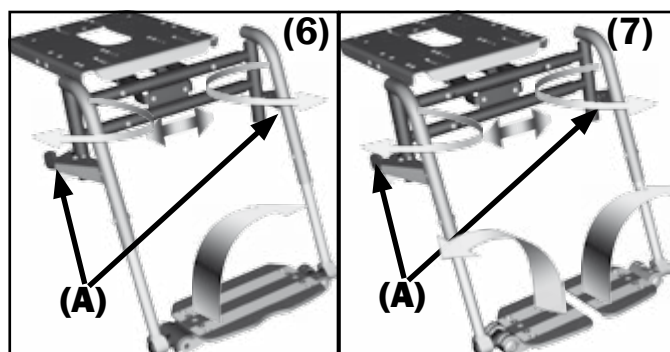
#### 3.5.3 Multidirectional leg support with a divided footrest

**(5)** With the multidirectional leg support you can bring each leg in different positions and also change the measurements of the abduction (screws **(C)** underneath the seat). Leave this adjustment to your rehab technician.



To get in or out please proceed as described in 3.5.1. To pivot the leg supports upwards please do so as explained by unlocking the eccentric clamp. In order to change the length open the star knob screw **(B)**, set the desired measurements and lock the screw **(B)** tightly after. You can change the position of the footrest with the same star knob screw and procedure and turn it forwards, backwards or outwards.

### 3.5.4 Leg support: detachable and swings to the side, continuous or divided footrest

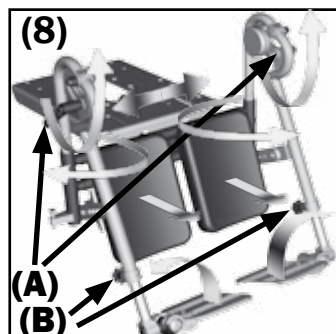


In order to get in and out of the wheelchair flip the footrest/s up to the side, push the locking lever **(A)** and fold the leg support 90° to the side, on both sides.

To detach the whole leg support, pull the outward flipped part up out of the holding pipe.

To place the leg support back on guide the 90° outward flipped part back into the holding pipe and turn it 90° so that it snaps into place in the locking pin. This is the only way that the locking lever will close again.

### 3.5.5 Leg support: detachable, can be elevated and folded to the side



In order to get in or out please proceed as previously described. To detach the leg support, just pull it up out of the holding pipe.



#### ATTENTION

**When putting back in be sure that the leg support wing snaps into the locking pin, which is inside the holding pipe. The leg support cannot be turned when carrying weight.**

In order to elevate the individual leg support parts loosen the clamp lever **(A)**, adjust to the wanted measurements and tighten the clamp lever **(A)**.

In order to change the length unlock the star knob screws **(B)**, adjust to the wanted measurements and lock the screw tightly **(B)**.

The calf support is adjusted to your measurements by your rehab technician.

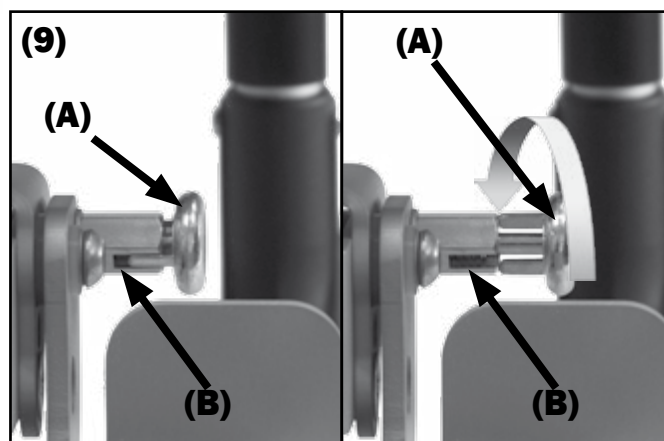
### 3.5.6 Locking

The leg supports N° (1) to (4) can be locked in a vertical position at the backside of the footrest.

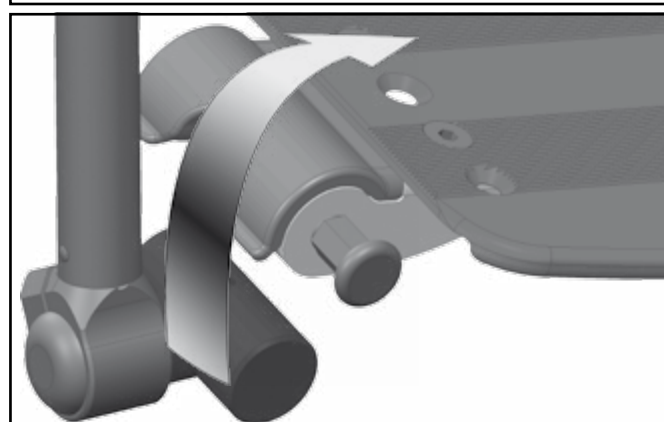
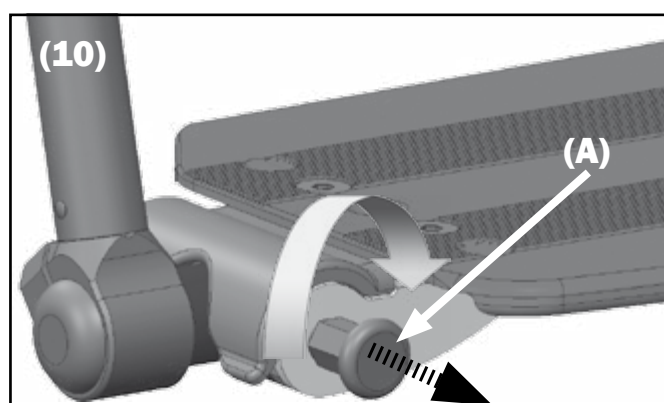
**(9)** To loosen the lock:

- pull the latch **(A)** out of the slot **(B)**
- and turn it 90°.

Do the opposite in order to lock.



**(10)** Locking of the leg support N° (6) occurs with the same procedure but at the locking part, at the front left of the footrest. Please proceed in the same manner.



## 3.6 Brakes

### ⚠ ATTENTION

While braking, forces occur that you must be able to handle. Therefore, here are important indications.

**A wheelchair is generally (when physically possible) slowed down when simultaneous pressure is applied with both hands on the hand rims.**

**Different pressure causes different brake force and automatically causes (unwanted) swerving.**

**While driving downhill a higher strain for braking occurs. Do not shy away from getting help.**

### ⚠ ATTENTION

**Before each ride with your wheelchair, be sure to check the functionality of the brakes.**

### ⚠ ATTENTION

**Possible damage or function defects can occur from:**

- dirty or falsely adjusted drum brakes,
- defected Bowden cable,
- a great distance between brake bolts and tire,
- too low tire pressure,
- wetness, snow, mud etc.,
- worn off profile,
- worn off brake bolts,
- loose brake bolt screws.

### ⚠ ATTENTION

**THE KNEE LEVER BRAKES ARE ONLY TO BE USED FOR PLACING THE WHEELS IN A RESTING POSITION. THEY ARE NOT TO BE USED TO BRAKE WHILE DRIVING.**

### 3.6.1 Drum brake as driving brake

The drum brakes can be used as a service brake or driving brake (see above: 'possible damages').

**(1)** In order to brake, pull the control lever up **(A)** and apply the same pressure to both brake levers otherwise you will swerve unwillingly. Only use the blocking lever **(B)** to secure the control levers in a locked position.

### 3.6.2 Drum brake as wheel lock

The drum brakes can also be used as wheel locks (see above: 'possible damages').

**(2)** To fasten the drum brake, pull the lever up **(A)** and lock the blocking levers **(B)** in the notches **(C)**.

To unlock, pull both levers a little further up until the blocking levers automatically unlock.

### 3.6.3 Knee lever brake (wheel lock)

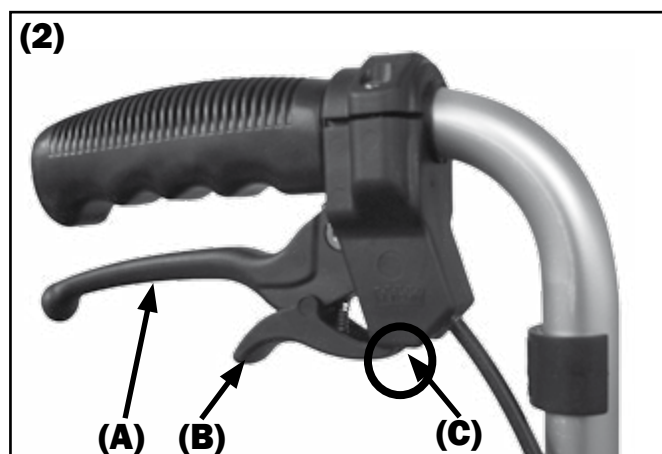
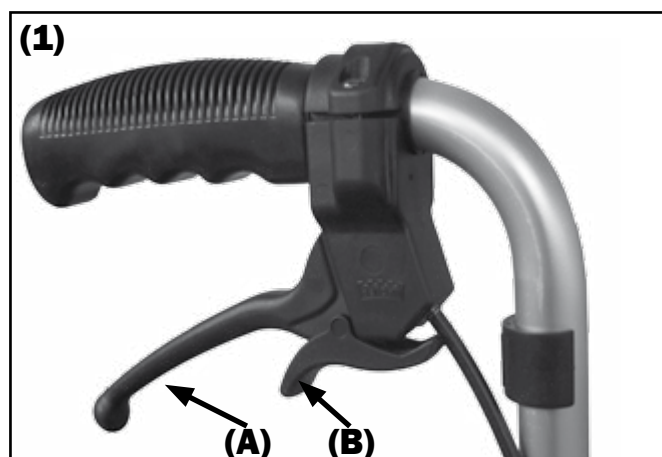
### ⚠ ATTENTION

**THE KNEE LEVER BRAKE IS NOT FOR BRAKING WHILE DRIVING**

Always use the drum brakes or, when physically possible, the hand rims to brake. Take notice that aluminum hand rims can heat fast through friction.

### ⚠ ATTENTION

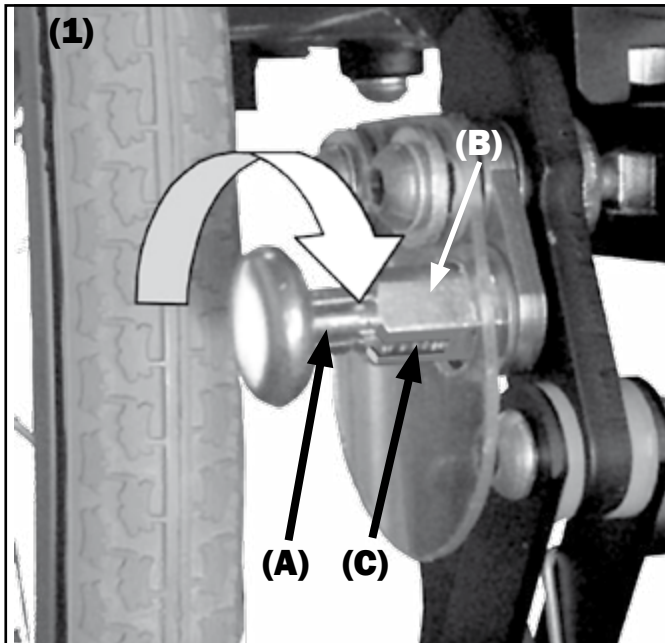
**We recommend during the use of the knee lever brakes to always block the drum brakes**





### 3.6.4 Locking the wheel lock

(1) Several wheel locks can be locked in the open or closed position.



#### Unlocking

Pull the locking bolts on both sides (A) out of the holders (B) and turn them 90° so that they do not stick in the slots (C) anymore. Place the brakes in the wanted function.

#### Locking

Turn the bolts (A) back 90° so that they slide back into the slots (C) and snap into place.

### 3.6.5 Reverse gear stop

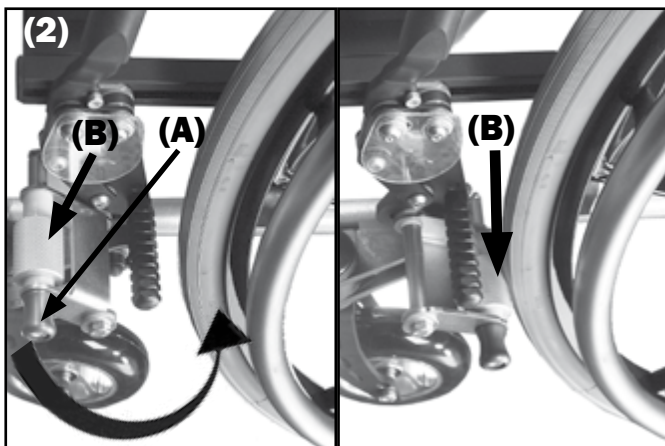
(2) The reverse gear stop blocks rolling backwards at a max. load capacity of 90 kg. (incl. seat shell) to a max. slope of 12,3% (=7°) without hindering the forward drive.

#### To activate

On both sides, clasp with the red levers (A) the locking pin (B) to the rear wheel.

#### To deactivate

Flip back both locking pins (B).



### 3.6.6 Anti-tipper

(1) To activate, push the anti-tipper (A) down using the tread element (B). Then turn the anti-tipper (A) by 180° and let go so the positioning slot snaps into the arresting bolt (C) inside the pipe.

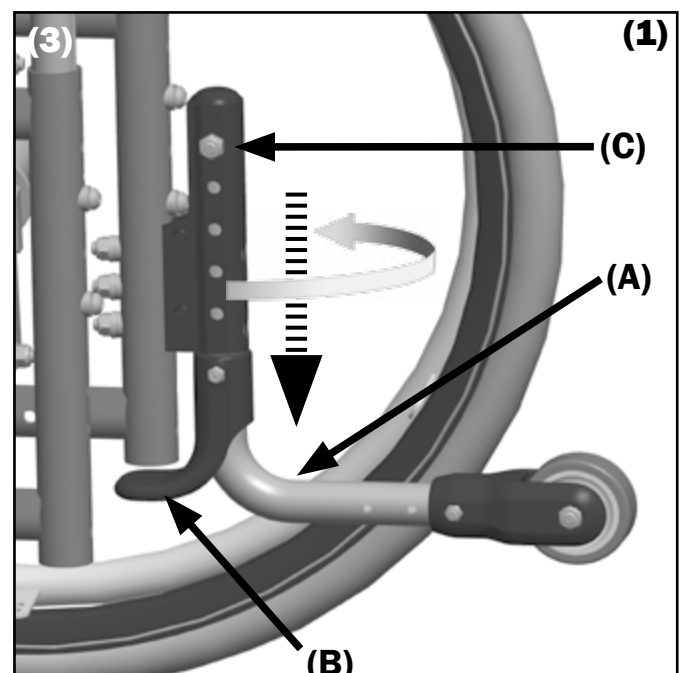
(2) To deactivate, push the anti-tipper on the bar (A) slightly further down, turn it by 180° and let go so it snaps into the positioning slot.

#### ⚠ ATTENTION

Please read the respective chapters of the **SAFETY INSTRUCTIONS**.

#### ⚠ ATTENTION

Make sure that the extension is always firmly snapped into its final position because a loose anti-tipper cannot fulfil its function properly and may cause injuries of the assistant's ankle area.



### 3.7 Seat shell

#### 3.7.1 Putting on/securing

- (1) In order to put on the seat shell
- Loop needs to be secured from rolling away,
  - place the seat shell with the wedge on the bottom onto the wedge holder (A),
  - push it back until the locking pin (B) snaps into place.

#### ATTENTION

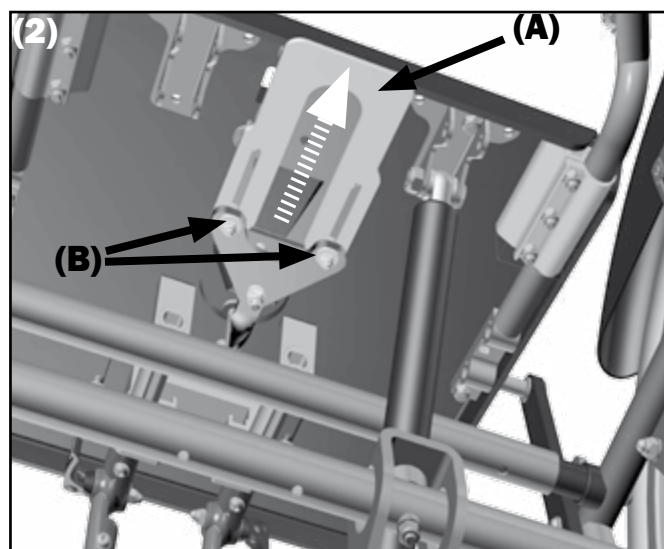
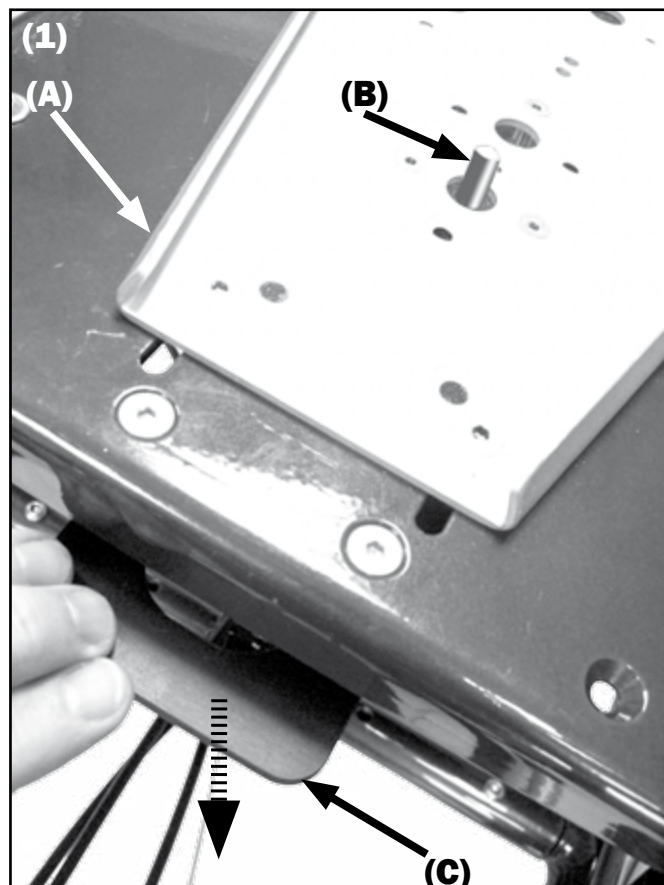
The Loop is ready to use when the seat shell is securely attached to the seat plate.  
Check before each use: The seat shell should not be able to be pushed out of its wedge holder.

#### 3.7.2 Removing/unlocking

- (1) In order to remove the seat shell
- Loop needs to be secured from rolling away,
  - push the release lever (C) on the back down so that the locking pin (B) unlocks,
  - push the seat shell forward out of the wedge holder.

#### 3.7.3 shortening/extending the release lever

- (2) In order to change the reachable length of the release lever (A) loosen
- both screws (B) on the bottom,
  - glide the release lever in the position wanted
  - and tighten both screws back on.





### 3.8 Outdoor Front End (push aid for outside)

#### ⚠ ATTENTION

The push aid can only be attached if there is no user sitting in the wheelchair.

#### ⚠ ATTENTION

The push aid is designed for a max. speed of 8 km/h. A higher speed is not allowed.

#### ⚠ ATTENTION

Going downhill and driving with a tilted seat, it is important to be extra careful.

#### (1-4) Mounting the push aid

- Close the wheelchair's wheel locks.
- Tip the wheelchair slightly back and/or place the casters on the jack up aid (A).
- Lock the latches (B) left and right in an opened position (pull out and turn 90°), insert both bars (C) on both sides all the way into the adaption (D).
- Close the latches again, (the latches (B) need to snap into place on the left and right),
- Remove jack up aid.

#### ⚠ ATTENTION

After mounting, be sure to check whether the construction is firm and secure in the fixture and that it is locked safely.

#### Removing the push aid

To remove, proceed in reverse order.

#### (4) Widening the push aid

- Remove the screw joints (E) on both sides,
- place in desired width,
- replace all screws that may have been removed and tighten the screw joints.

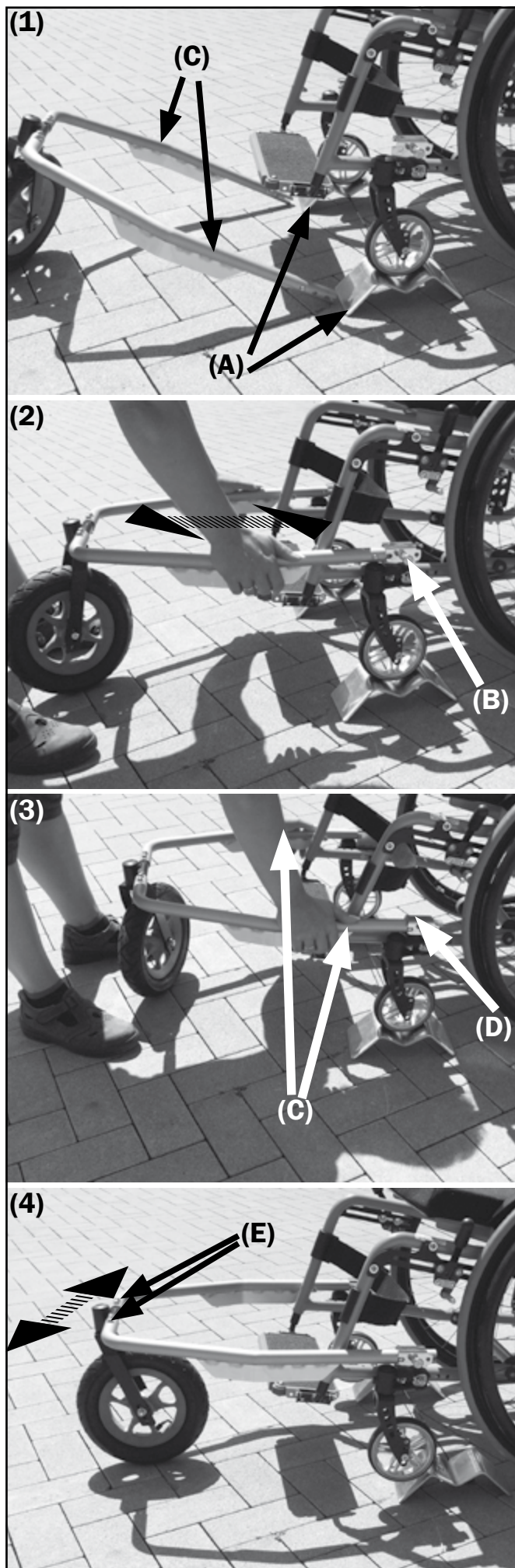
### 3.9 Baggage holder

#### ⚠ ATTENTION

Fold the baggage holder back whenever possible to avoid hurting someone.

#### ⚠ ATTENTION

Load the baggage holder after you are seated in the wheelchair.



## 4. Repairs and Maintenance

### 4.1. Repairs



**Do not conduct any reparations and/or maintenance work yourself. Contact your medical supply store. There, the staff is familiar with this work, has all necessary tools and are trained rehab technicians.**

If you have any questions or need help, our qualified rehab consultants are happy to assist you or turn to your specialized retailer, who is trained according to our regulations and who is capable of resuming consultations, service as well as reparations.

### 4.2 Spare parts



Safety relevant parts or assemblies can only be built on or changed by a qualified sanitary house because of the safety hazard.



**Only original spare parts can be used! They are available at your medical supply store.**

#### ►► INDICATION

Disruption can occur from assemblies from external companies which can lead to a safety hazard. Spare parts with the respective item number and drawings are available at your specialized store and can be downloaded under [www.sorgrollstuhltechnik.de](http://www.sorgrollstuhltechnik.de) or can be requested directly from us.

For a correct delivery of spare parts the appropriate series number of the wheelchair is to be stated! You will find these on the type label on the wheelchair's frame.

#### ►► INDICATION

**Every change or modification done on the wheelchair by your medical store is to be enclosed in this user manual with the corresponding information such as assembling indications and/or operation instructions and the date of the alteration is to be documented in the service record.**

### 4.3 Disposal

#### ►► INDICATION

**The wheelchair can only be disposed of after consultation and approval from your benefactor.**

As a general rule, the disposal of the wheelchair must conform to the respective national legal regulations. You may seek information about local disposal organizations from your city or municipal administration.

Our packaging materials are 100% recyclable. Metal parts may be put to scrap metal recycling or sent to our factory. Plastic and textile parts may be recycled as well.

### 4.4 Tire change

With a little bit of technical skill and suitable tools, you can fix a flat tire yourself. It is advisable to always carry a repair kit and an air pump for emergencies. Suitable air pumps can be purchased at your specialty store. An alternative would be a puncture repair spray which fills your tire with setting foam (available at the specialty store).

#### Dismounting

In case of a flat tire, remove the tire carefully from the rim with suitable mounting tools. Make sure not to damage the rim or the tube in the process.

#### Repair

Repair the tube according to the indications given on the reparation set, or replace it with a new one. Examine the rim and the interior of the tire for foreign objects which may have caused the flat tire. Only use rim bands which are in perfect condition to protect the tube from damage caused by spoke ends.

#### Mounting

Push the rim band over the valve and place the valve into the rim. Unscrew the valve screw nut. Now you can draw up the rim band effortlessly. Make sure that all spoke ends are covered.

Now push the lower tire part over the bead of the rim. Inflate the tire until round. Insert the weakly inflated tube into the tire cover. Check the tube for smooth fit. Then you can easily mount the upper part of the tire behind the bead of the rim with both hands. Start with the part of the valve which is faced away.

## Inflation

Check if the tube is perfectly clamped between tire and cover.

Check the valve fitting.

First inflate the tire with just enough air so you can still push in with your thumb. Check the fit of the tire on the rim. If the tire cover is not centered on the rim, deflate the tire a bit and readjust it.

Then inflate the tire to its maximum operating pressure (see tire cover) and close the valve with the protection cap.

## 4.5 Maintenance

### 4.5.1 Cleaning and care

#### ►► INDICATION

**Never treat the wheelchair with a high pressure cleaner! Please use silicon free, water based cleaning and care supplies.**

The indications on application given by the manufacturer are to be followed. Do not use any aggressive cleaning supplies such as dissolvers or hard brushes etc.

#### COATING

To tend the finish, we recommend using customary branded finish care products. Should the coating still be damaged through scrapes, hits etc. you may correct those spots with a touch up applicator available in the specialty store (apart from metallic and dormant colors).

#### PLASTIC PARTS

The clothing protection and similar parts consist of high quality plastic. Only clean these parts with warm water and neutral cleaning agents or soft soap.

#### PLEASE NOTE:

**When using customary plastic cleaners, the indications on application given by the manufacturer are to be followed.**

#### CUSHIONS AND COVERS

The covers of the molded firm seat and back parts may be removed with the zippers. We recommend washing them regularly with a mild detergent and low temperature in the washing machine.

#### PLEASE NOTE:

Please clean other cushions and covers (e.g. from seat shells) with warm water and hand soap. Many stains can be removed with a sponge or a soft brush.

In case of doubt, please consult the medical supply store, which built your seat shell, for advice on cleaning the cover.

#### FRAME

The frame and wheels must be cleaned regularly with a damp cloth and mild cleaning agent. Please dry well after.

#### CASTERS

Please remove rough dirt regularly from the casters, clean them with a damp cloth and mild cleaning agent and dry well. Please grease the wheel bearings and similar parts with customary grease.

#### PLEASE NOTE:

Please check the frame for corrosion damages as well as other damages on a regular basis. Oiling all versatile parts lightly and regularly obviates such damages and assures long use of your wheelchair.

### 4.5.2 Disinfection

To disinfect, water based agents should be used such as: Terralin, Quartamon, Med or Sagrotan.

The indications on application given by the manufacturer are to be minded and followed strictly.

#### INFORMATION

Before you disinfect the wheelchair be sure to clean all cushions and handles in the given manner.

#### INFORMATION

Do not use aggressive cleaning agents or solvents or hard brushes.

### 4.5.3 Reinstatement

#### ►► INDICATION

Before each reinstatement the wheelchair has to go through a complete, thorough and qualified inspection and disinfection.

#### ►► INDICATION

**The necessary measures for reinstatement are to be followed through according to a validated hygiene schedule.**

### 4.6 Service/inspection

#### 4.6.1 Check list

A yearly inspection from a qualified medical store is inevitable for the safe use of the wheelchair and for a long lifespan. Furthermore, the inspections serve as proof for the suitability for use in the case of a possible reinstatement.

For safety reasons and to prevent accidents resulting from abrasion not recognized on time, a yearly inspection is designated under normal operating conditions.

#### ►► INDICATION

**This is to be done according to the service list and to be documented in the service record.**

According to applicable law §33 subparagraph 1,4 BSG V (Service, Maintenance, Replacement Reserve) the inspection is part of the commitment of the benefactor and has to be acquired by him. For detailed coordination, we recommend you arrange agreements with your benefactor in the forefront of supplying medical aids.

The staff of the professional repair shop is familiar with the technique of the aid and can recognize building abrasion and if necessary they can conduct the needed reparations.



#### 4.6.2 Check list yearly inspection

##### PREPARATORY WORK

If necessary, we recommend cleaning the wheelchair or individual parts of it prior to inspection.

##### VISUAL INSPECTION

☐ Check frame, mounting parts and accessories for damage, defects in paint work and corrosion.

##### GENERAL CHECK-UP

- ☐ Check all fixing screws for firm fit and retighten them if necessary.
- ☐ Check fixation of all mounted parts and readjust if necessary.
- ☐ Check fixation of all plastic parts, handles, mounted parts spoke guard covers etc. and readjust if necessary.
- ☐ Check brake lever device and extension for deflection and readjust if necessary.
- ☐ Check all spring loaded devices (quick release axle, stand spring on push handle etc.) for proper functioning and replace if necessary.

##### CARRIAGE

- ☐ Check fixation of caster and rear wheels.
- ☐ Check functionality of the quick release axles.
- ☐ Check tires, air pressure and valve, replace if needed.
- ☐ Check caster bearing, caster fork and caster mounting bracket for condition, proper functioning and running characteristics.
- ☐ Check the firm fitting of the anti-tipper and its functionality.

##### BRAKES

- ☐ Make sure the brakes function properly
- ☐ Make sure the Bowden cables function properly and replace if necessary.
- ☐ Make sure the brake lever extension functions properly.

##### OILING AND GREASING

- ☐ Clean and grease all pivotal points of control levers and versatile parts as well as all bearings.

##### FINAL CHECK-UP

- ☐ General functional check-up of all mechanical adjusting devices.
- ☐ Additional braking, steering and driving tests uphill and downhill.

#### 4.6.3 Service list

The following service list is based on our long-term experience and is a mandatory guideline with which you can keep your wheelchair –possibly for a long time – in a safe to use condition. However, it does not give information about the extent of service or repair needed and observed on the wheelchair.



##### ATTENTION

**Please keep in mind, the even regular maintenance is not a guarantee for a safe use and road safety. If necessary, individual repairs and/or adjustment work is to be done immediately in order to ensure you are not in great danger.**

Considering possible reuse, the filled out service plan is an informative document about the mobilization of the wheelchair for the benefactor.



##### ATTENTION





**As a participant in public traffic, the wheelchair driver is responsible for maintaining the wheelchairs functional state and safe operating condition.**



##### ATTENTION

**Insufficient or neglected care and maintenance of the wheelchair pose a significant safety risk and automatically lead to limitations of product liability.**



WHEN?		WHAT?	COMMENTS
Before each use		<p><b>Check wheels/quick release axles for firm fit.</b> You must not be able to pull the wheel out of the quick release axle. The arrestor button must protrude the hub visually.</p> <p><b>Check air pressure</b> according to the manufacturer indication on the tire.</p> <p> <b>ATTENTION</b> Regularly check the brakes for proper function!</p>	<p> <b>ATTENTION</b> <b>Too low air pressure and/or dirty tires as well as adverse weather circumstances can reduce the brake efficiency drastically and put you in danger. Fix all flaws yourself immediately or with an experienced carer.</b></p> <p>If the brake doesn't work correctly (worn out profile or braking bolt, loose brake lever etc.), contact a medical supply store immediately for qualified maintenance work.</p> <p> <b>ATTENTION</b> <b>The wheelchair (with full capacity) has to stand safely with pulled brake on a ramp with a 7° (=12%) decline</b></p>
Preferably before each use		<p><b>Check all screws for proper fit.</b></p> <p><b>Check frame and back tubes for damages.</b></p>	<p>Please check:</p> <ul style="list-style-type: none"> <li>• secure fit of the quick release axle, wheel adapter</li> <li>• angle adjustment elements (eccentric clamp or star knob screws) for proper functioning and completeness</li> <li>• fixation of foot rest</li> <li>• fixation of molded seat and back/seat shell</li> <li>• fixation of wheel guard</li> <li>• fixation of anti-tipper</li> <li>• proper functioning (clamping force) of all eccentric clamps</li> <li>• connection Velcro-fleece (seat and back belts) for proper functioning</li> </ul> <p> <b>ATTENTION</b> <b>If the welded seams are deformed and /or have fissures, contact a medical supply store immediately for qualified maintenance.</b></p>
Every 4 Weeks		<p><b>Retighten all screw joints</b></p> <p><b>Check tire profile</b></p> <p><b>Remove lint/dirt from casters</b></p>	<p>From daily use and the permanent vibrations screws can loosen. Therefore, we strongly recommend retightening <b>ALL</b> screw joints once a month.</p>
Every 2-3 months (depending on driving performance)	<p><b>Clean and grease all versatile parts</b></p> <p><b>Retighten spokes</b></p>	<p>All moving parts such as brakes, brake levers, quick release axles etc. Clean all parts thoroughly and remove old oil residue before greasing. After, Apply some drops of oil and wipe away excess oil.</p> <p><b>If possible have this done by your medical supply store!!!</b></p>	
every 6 months (depending on driving performance, earlier)	<p><b>Check frame for cracks, corrosion and damages</b></p> <p><b>Maintain locking brake</b></p>	<p><b>Please have this done by the medical supply store!</b> Please remove seat and back unit as well as leg support and side guards/clothing guard for better exterior visual control.</p> <p><b>To be conducted by the medical supply store! Inspect brakes for symptoms of fatigues or abrasion.</b></p>	

## 4.7 Technical data

### 4.7.1 Measurements and dimensions

**Dimension tolerance  $\pm 5^\circ$**

#### Abbreviations:

FW= Frame Width

SD= Seat Depth

BH= Back Height

LLL= Lower Leg Length

AIN= Aid Index Number

#### Data

Model: Loop<sup>SORG</sup>

AIN: 26.99.01.3xxx

AIN: 26.99.01.1xxx with 12" wheels

Type: 802

Type label on the front cross bar

### 4.7.2 Label meanings

The meaning of each label results directly from the relevant text in the appropriate place. On the type label on the frame of the Loop<sup>SORG</sup>, the following meanings resulted (see below):

The Serial number consists of

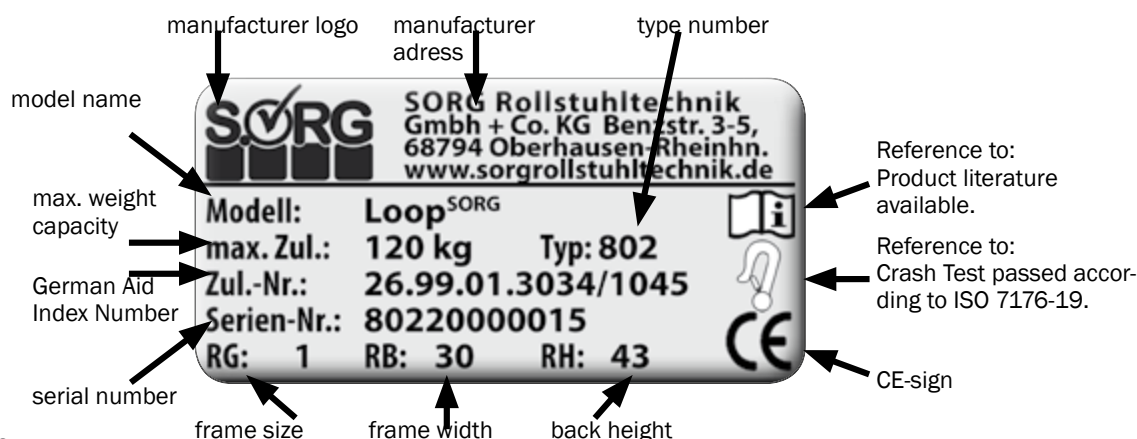
**XXX XXXXXX XX**  
**Type-Nr. Order-Nr. Year**

Depending on the design (12" or other rear wheels), the Loop<sup>SORG</sup> can have a type label that differs from the following printed Aid Index No.

### 4.7.3 Measurements Loop<sup>SORG</sup>

Indication		Measurement	Comment
<b>Size 1</b>	Usable width = frame width + 4 cm	FW 30-42 cm in 4 cm intervals	suitable at a SD of 32 cm, each FW + 4 cm
<b>Size 2</b>	usable width = frame width + 4 cm	FW 34-46 cm in 4 cm intervals	suitable at a SD of 38 cm, each FW + 4 cm
<b>Size 3</b>	usable width = frame width + 4 cm	FW 38-50 cm in 4 cm intervals	suitable at a SD of 44 cm, each FW + 4 cm
<b>Back Height</b>		43 or 58 cm	optional
<b>Back Element</b>		about 6 cm backwards displaceable	
<b>Leg Support</b>		about 6 cm forwards displaceable	
<b>Tilting</b>		from -5° to +35° from +2,5° to +40°	optional

<b>ERTO Wheel Size</b>	at 20"	Ø 451 mm	with drum brakes
<b>ERTO Wheel Size</b>	at 22"	Ø 489 mm	
<b>ERTO Wheel Size</b>	at 24"	Ø 540 mm	
<b>ERTO Wheel Size</b>	at 12"	Ø 203 mm	
<b>Camber</b>		0° or 2°	4° limited
<b>Seat Height (SH) with a horizontal seat and horizontal frame</b>	A-wheel 20"/22" Steering wheel 5"/5,5"	41 cm size 1 43 cm size 3	Height adjustment +2/+4/+6 cm
	A-wheel 20"/22" Steering wheel 6"/7"	42 cm with size 1 44 cm with size 3	Height adjustment +2/+4/+6 cm
	A-wheel 24" Steering wheel 5"/6"	43 cm with size 1 45 cm with size 3	Height adjustment +2/+4/+6 cm
	A-wheel 24" Steering wheel 7"	44,5 cm size 1 46,5 cm size 3	Height adjustment +2/+4 cm
<b>Absolute width of wheelchair</b>	min.	FW + 220 mm	
	max.	FW+ 300 mm	
<b>Absolute length of wheelchair</b>	min.	min. 610 mm with frame size 1	12" wheels and footrest 16 cm
	max.	1130 mm with frame size 3	24" wheels, wheel base extension footrest 23 cm
<b>Absolute height of wheelchair</b>	min.	900 - 1000 mm	at BH 43 cm and 45° push handle
	max.	1050 - 1150 mm	
	min.	1000 - 1100 mm	at BH 58 cm and 45° push handle
	max.	1150 - 1250 mm	
<b>Valid incline</b>		12% = 7°	at 0° tilting and 0° inclination of the back angle
<b>Valid descend</b>		12% = 7°	
<b>Tilt safety</b>		12% = 7°	
<b>Turning circle</b>		ca. 110 cm	dependent on wheelchair size
<b>Load capacity (max.)</b>		120 kg	including seat shell
<b>Empty weight min.</b>	Drivable with: FW 30 cm, wheels 12", Steering wheel 4" PU	15,1 kg	frame, seat plate, drum brakes, hand rims, steering wheels, leg support, push handle, tilt mechanism
<b>Tires</b>	Customary pneumatic tires (1" or 1 3/8" with 12"-wheels) or breakdown safe tires (same measurements)		Optional: "Schwalbe Marathon Plus", pneumatic tires with breakdown safe insert.
<b>Corrosion Prevention</b>	Material	Stainless steel, Aluminium	
	Coating	Powder coating, zinc coating	



4.8 Documentation yearly inspection

Work done according to check list	Additional work done	Date, Signature, medical store stamp,

company stamp



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