

# User Manual & Service Book **Jump**



We are a member of rehaKIND e.V.



International association for child and  
adolescent rehabilitation

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## Wheelchair Overview



1. Frame
2. Seat cover (or seat plate, depending on configuration)
3. Seat cushion
4. Back cover (or back plate, depending on configuration)
5. Back cushion
6. Push handle
7. Clamping lever for push handle adjustment
8. Side part
9. Locking brake - operating element
10. Caster adapter
11. Caster fork
12. Caster
13. Rear wheel
14. Perforated plate
15. Release lever quick-release axle
16. Wheel guard
17. Handrim
18. Locking brake - press-on-element
19. Foot rest holder
20. Foot rest
21. Cross-support

# 1. Preamble

## 1.1 General Information

Like any other technical aid, a wheelchair may inherit considerable risks if used inappropriately. Therefore, please familiarise yourself thoroughly with Jump and its potentialities.



### Attention

Please read the following manuals and instructions very carefully:



User Manual;



General Instructions on Use and Safety;



Service Manual.



### ATTENTION

If the user of the wheelchair is a child, the parents/authorised supervisor have to make sure that he/she has fully understood the handling of the wheelchair before the first use.

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

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

## 1.2 Signs and Symbols



### Attention

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



### Attention

This is how possible **product-related** defects of **utmost importance** are labelled



### Please note

This indicates NOTES OR INSTRUCTIONS of **great importance**.



### Information

This indicates NOTES OR INSTRUCTIONS of **great importance**.



### Read

This indicates NOTES OR INSTRUCTIONS of **great importance**.

### Bold Print

Fett gedruckte Texte heben wichtige Hinweise oder Bemerkungen hervor.

## 1.3 Indication

Because of its great spectrum of sizes, Jump is suitable for long-term therapy laid out for many years. Thus, Jump is indexed for the following impairments (amongst others):

- Cerebral Palsy
- Spina bifida
- all kinds of paresis
- all kinds of hemiplegia
- Multiple sclerosis
- all kinds of muscle insufficiency (atrophy or dystrophy)
- amputation
- rheumatic illnesses

The following therapeutic aims may be supported by Jump:

- Preservation, building, and/or strengthening of the entire muscle tonicity
- Preservation, building, and/or strengthening of (auto-)mobility
- Stabilising and the torso and putting it into an upright position
- Skeletal stabilisation and strengthening of the spine
- Development of sensory perception
- Stimulation and stabilisation of metabolism and circulation
- Participation in social life (inclusion)

## 1.4 Counter-Indication



### ATTENTION

**Under the following circumstances and/or symptoms, Jump may only be used if discussed thoroughly with the doctor or therapist in charge of the treatment:**

- dermatological complications (pressure marks, irritations, open traumata) may occur in users whose skin is not intact (especially in the areas of the buttocks, back, thighs, hands, etc.)
- if the user's tonicity deregulation is very grave
- if the user's perception is extremely impaired, he/she may **NOT** actively take part in road traffic



### Please note

**We are NOT liable for health-related and/or any other kind of damage of people and objects occurring under the above circumstances when using Jump.**

## 1.5 Specification

Jump is a light-weight and versatile activity wheelchair for indoor and outdoor use (home, school, work place, leisure time, travel). Its aluminium-frame is foldable and possesses excellent handling characteristics. The frame is available in a straight or abducted version. Thanks to its 1.5-fold cross-support with small folding size, Jump provides the torsional rigidity and ride comfort similar to that of a rigid frame.

Jump's back height, seat depth and seat width are growable in order to support long-term and sustainable therapeutic purposes. It is perfectly adjustable to the physiognomic situation of the user.

Jump possesses manifold options in the seat-back-area to comply with highly differentiated therapeutic methods:

- seat- and backcovers/-belts
- firm seat plate and firm moulded back
- anatomical seat- and back unit
- and all kinds of seat shells (types 1-3)

Jump is suitable for children, adolescents, and adults with a seat width of 24 cm or more, and up to a maximum payload of 75 kg. There are 3 frame sizes available, dependent on the seat depth chosen:

- frame size 1 (for **20"/22"**)
- frame size 2 (for **22"/24"**)
- frame size 3 (for **22"/24"**)

## 1.6 Application

Jump serves exclusively to actively or passively transport the person to whom the wheelchair has been adjusted by a qualified specialised trade.

It can be used indoors without any restrictions. Outdoors, however, it may only be used on firm, even ground unless it has been equipped with a suitable upgrade (e.g. Outdoor Front End).



### ATTENTION

**The wheelchair must not be used in extremely wet surroundings (shower, sauna, etc.) and excessive contact with moisture is to be avoided.**



### ATTENTION

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



### INFORMATION

The service life of your wheelchair may be extended through regular maintenance and care (cf. maintenance plan chapter 6).

## 1.7 Reception

### ►► Please note

#### DELIVERY

Each SORG wheelchair is mounted and tested for functional efficiency and freedom from defects by our specialists and is then packaged into special paperboard containers by our shipping experts.

#### FORWARDING COMPANY

For liability reasons, we have to ask you to check your wheelchair - immediately on reception and in the presence of the deliverer (forwarding company) - for possible damages that might 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, add photos clearly showing the damage.
- get the personal data of the bearer (driver's licence, etc.)
- inform us immediately

### ►► Please note

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

### ►► Please note

According to applicable law, damages reported belatedly can neither be asserted to us nor to the forwarding company!

## 1.8 Documentation

### ►► Please note

Keep this user manual in a safe place. Have all works/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.

### ►► Please note

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



#### READ

According to § 33 para. 1, clause 4, [German] SGB V, you are, as an owner of Jump, legally entitled to regular maintenance (i.e. safety-relevant inspection), the necessary repairs, and/or replacement! Your benefactor is legally bound to have these safety-relevant inspections, corrective maintenance, and repairs conducted.



#### ATTENTION

All safety-relevant work on your wheelchair is to be conducted and documented exclusively by a qualified specialised trade.



## 1.9 Service and Maintenance

### INFORMATION

Your qualified rehab-technician will adjust the wheelchair to your individual requirements and hand it over in an operational state.

### ATTENTION

When doing works on your wheelchair, keep the risk of **CRUSHING** fingers or other body parts in mind.

### ATTENTION

Regular check-up of safety-relevant components of the wheelchair by a qualified rehab-workshop are the only way of preventing damage and maintaining our liability.

### ATTENTION

For all service and maintenance works original parts must be used exclusively.

### INFORMATION

Proceed according to the maintenance plan in chapter 6 of this user manual.

## 1.10 Accessory and Attachment Drives

### ATTENTION

Accessory or attachment drives from other producers may only be mounted on models we have released for this purpose.

### INFORMATION

Amongst the numerous producers, we have listed below a few possible and tested models from Ulrich Albert GmbH, Albstadt. Please consult the producer for the respective prerequisites.

- e-fix E25
- e-motion
- viamobil eco V14
- viamobil V25
- scalamobil S35

### ATTENTION

The attachment of additional drives is to be conducted by the producer of the respective system or by a medical supply store assigned to this purpose. The procedure lies entirely in their responsibility.

## 2. Safety

### 2.1 Service and Maintenance

#### ATTENTION

All rotating parts pose a risk of injury (this is also the case for adjustment or reparation work).

#### READ

Before using your wheelchair for the first time, please read the brochure **"General Advice on Use and Safety"** carefully.

#### ATTENTION

Jump may only be used for cases for which it has been indexed. Any other or unintended use poses a considerable safety risk for you and your surroundings. Furthermore, this may lead to the expiry of our liability!

Familiarise yourself with your wheelchair careful when using for the first time or after adjustments have been done. Practise on even ground and **with the help of an experienced assistant** at first. Only then can you tackle downgrade and upgrade paths - again, with the help of an experienced assistant.

The attachment and removal of building components alter the wheelchair's measurements, weight, driving characteristics and proneness to tipping.

Avoid extreme adjustments of your wheelchair (strong seat inclination, very active rear wheel position). Such extreme configurations combined with a disadvantageous posture may provoke your wheelchair to tip backwards, even on level ground.

#### ATTENTION

All changes on your wheelchair must be agreed on by your rehab technician and/or producer and/or be conducted by them.

#### READ

Please mind the instructions on maintenance and inspection of your wheelchair (chapter 6).

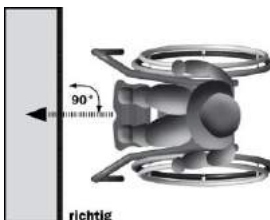
#### ATTENTION

Do not in any case conduct any adjustments, reparations, and/or maintenance work by yourself. Turn to your medical supply store.

### 2.2 Driving Characteristics

#### ATTENTION

Always be careful when dealing with offsets or sills (DANGER OF FLIPPING OVER).





**Staircases (never tackle alone)**



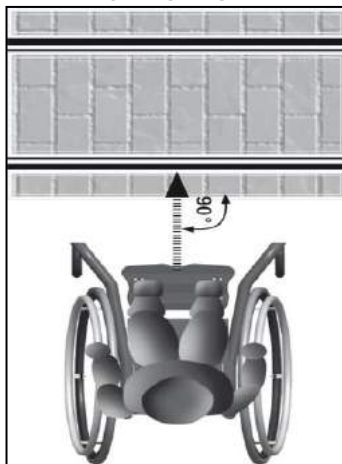
**Upgrade paths and/or objects on the back that change the wheelchair's centre of gravity (DANGER OF FLIPPING OVER).**



**Participation in public traffic (influence of medication, drugs, alcohol).**



**Navigation channels (tram guide rails etc.): only cross in a right angle (90° - danger of getting stuck or flipping over).**



**Gully cover (or other obstacles with parallel channels): only cross in a right angle (90°), NEVER parallel to the channels. (Try and find another place to drive over the road curb).**



## Upgrade and Downgrade Paths



### ATTENTION

(Image 1+4) When driving on inclinations and offsets, bend your upper body as far as possible in the direction of the inclination.



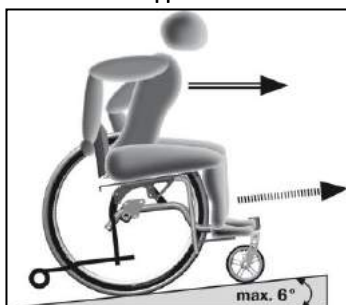
### ATTENTION

Only tackle ramps or paths with an up- or downgrade inclination of more than 6% with the help of an assistant.



### ATTENTION

(Image 2) NEVER drive on ramps or inclinations without the anti-tipper!



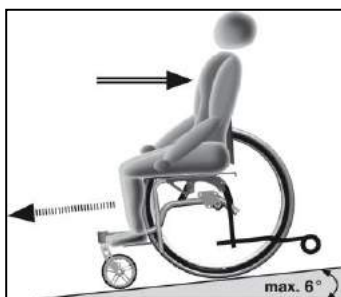
### ATTENTION

When driving on downgrade paths, drive slowly enough so you could halt your wheelchair at any time. Mind the considerably higher effort of driving and braking on an inclined path.



### ATTENTION

(Image 3) NEVER drive diagonally on inclined paths; you may tip over sideways.



## Getting In and Out

### ⚠ ATTENTION

You may only get in or out of your wheelchair on firm, even ground and with the locking brake tightened. Activate the anti-tipper and turn the casters frontwards to increase the stability of your wheelchair.

If necessary, have someone assist you in getting in or out. Inform your assistant about possible dangers, such as tripping points, hems, or the nature of your handicap.

### ⚠ ATTENTION

(Image 1+2) NEVER use the foot rest(s) when getting in or out of your wheelchair for it might tip forwards. Please fold (if possible) the foot rest(s) to the side or to the back in order to get closer to the wheelchair.



### ▶▶ PLEASE NOTE

In the case of some children, it is therapeutically desired that they independently get in and out of their wheelchair via the footrest. In this case, please make sure:

- that the casters are turned forwards
- that the wheelchair cannot roll away
- that the anti-tipper is activated
- not to let your child unsupervised
- to be ready to assist at any time



## Independent Realisation



### ATTENTION

Getting in or out independently is dangerous!



### ATTENTION

The footrests are in the area of the legs, which poses a danger of tripping over! Fold the footrest(s) away or hinge the leg rest(s) outwards. Make sure the footrest is NOT in the area of your movement. If it is, change, if possible, the side of your transfer.



**(Image 1)** To transfer independently, drive as close as possible (frontal/45° angle) towards the other seat and make sure it stands steadily. Close the locking brake and hold onto the new, steady seat surface for support.

**(Image 2)** A rubbing plate or the like may be very advantageous.

Make sure the rubbing plate rests firmly on the transfer surface and that it cannot shift. Proceed as described above.



## Gripping Objects

Test the **tippling stability** (to the sides, front, and back) of your new wheelchair **with the support of an experienced and strong assistant**. To do this, please **slowly** lean as far as you can to each side, front, and back while sitting in your wheelchair in order to, for instance, pick up an object from the ground. Attentively observe when exactly the wheelchair starts tipping over and memorize this point well.



### ATTENTION

**Before reaching for objects next to or in front of your wheelchair, make sure the chair is secured and cannot roll away! Do not lean too far out of your wheelchair.**



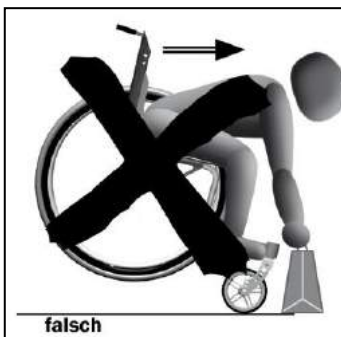
### INFORMATION

**If you feel insecure, you may use a reacher.**

**(Image 1)** When leaning out towards one side, hold on to the other side. Try to shift your weight as little as possible.

**(Image 2)** If you have to lean out of the front of your wheelchair, **NEVER** strain the leg support - **danger of flipping over!**

In doing that, place both your legs (if possible) on the ground and as far away from your body as possible. Here, too, it is advisable to use a reacher. Your medical supply store will be happy to advise you.



## Locking Brake

### ATTENTION

The knee-lever brake is a locking brake and should **NOT** be used to brake during driving since this might make your wheelchair halt abruptly with the risk of falling out for the passenger.

The drum-brake (optional), on the other hand, is suitable for gradual braking while driving. This is also, to a limited extent, possible with the attendant brake.

### ATTENTION

Before every longer (ride), please check the tyre pressure (correct pressure indicated on tyre) and the adequate state of the braking bolts and cable pulls.

### ATTENTION

Clean the braking bolts from dirt and fluff regularly.



image 2

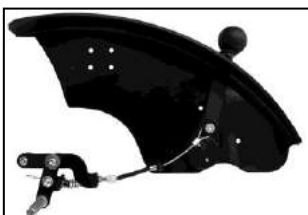


image 1



image 3


Apart from the **standard locking brake** (image 1), we offer further brake type options:

- (image 1) **cable pull brake**, inserted in the side part
- (image 2) **attendant brake**, operable by an assistant via a lever on the push bar
- (image 3) **recoil-blocking device**, prevents the wheelchair from rolling backwards on an inclination of up to 7% and a payload of up to 90 kg

Additionally, we offer various brake lever extension options

### ATTENTION

If the brake lever is extended, make sure the extension fits firmly.

 **ATTENTION**  
NEVER conduct reparation works on the locking brake by yourself. Turn to your rehab technician.



**ATTENTION**  
After conducting changes on the rear wheels, the functional efficiency of the locking brake must be checked and readjusted if necessary.



image 4



image 5



image 6



### Anti Tipper



#### ATTENTION

To inexperienced and young drivers in particular we strongly recommend using the anti-tipper whenever possible.



#### PLEASE NOTE

Jump can be equipped with anti-tippers at any time after production.

(Image 1) To activate the anti-tipper independently, secure the wheelchair against rolling away, carefully reach backwards without leaning out too far, pull the anti-tipper down and turn it by 180° around itself until it has snapped into the guide slot.

If possible, use your other hand to hold onto the rear wheel/grip tyre in the process.



#### ATTENTION

Deactivate the anti-tipper when tackling offsets or using lifts and lifting platforms

image 3



### Back Angle Adjustment

(Image 2) If your angle is adjustable in angle (optional), the anti-tipper needs to be activated if the angle is larger than 90°. To drive (actively), the back needs to be in an upright position!



#### ATTENTION

NEVER activate the angle adjustment device while driving!

With amputations or if the legs are stored on the leg support while leaning backwards, we recommend using a wheel base extension, or at the very least an anti-tipper.



#### ATTENTION

A wheel base extension does NOT replace an anti-tipper!

image 2



## Casters



### ATTENTION

Adjusting the casters incorrectly or driving too fast (especially on downgrade paths) may lead the casters to judder, which may result in a dangerous and abrupt braking of the wheelchair.



### PLEASE NOTE

Clean the axles and axle hulls of the casters from fluff and dirt regularly.



### INFORMATION

After any adjustments on the rear wheels, the casters need to be readjusted. Have this work done by an experienced rehab technician.



### PLEASE NOTE

To gain more stability when transferring in or out of the wheelchair, turn the casters frontwards (if possible) by briefly driving backwards.



## Folding and Unfolding



### ATTENTION

When folding Jump, mind the danger of squeezing your fingers because of the cross-support



### ATTENTION

To load Jump onto a vehicle, mind the instructions in chapter "loading and transportation".



### ATTENTION

After unfolding/opening the wheelchair (e.g. after transportation etc.), the cross-supports must be firmly snapped into the support frame (image 1, A). Otherwise, the wheelchair would not be fully functional.



### ATTENTION

If your Jump has a stabilising bar (image 2) in the back, it, too, must be locked firmly before your wheelchair is put to use.

image 4



image 2

### Seat- and Back-Clothing

If your Jump is equipped with seat- and back-clothing, please proceed the following way to fold the wheelchair:

- secure your wheelchair against rolling away
- loosen the stabilising bar if present
- **(image 1+2)** remove seat and back cushions, open Velcro in between back and seat clothing and pull backwards
- **(image 1)** fold up foot rest(s)
- **(image 2)** grab the seat clothing centrally at the front and back and pull it upwards until Jump is folded
- **(image 3)** secure the folded Jump with a fold-fixing-string (**A**)

When unfolding:

- attach rear wheels and check for firm fit
- tip one side of the wheelchair towards yourself (the opposite rear wheel should not touch the ground)
- remove fold-fixing-string)
- pull the cross-support-pipes apart until they have snapped into the support frames
- place wheelchair back on both its wheels and secure against rolling away
- if present, lock stabilising bar firmly
- attach seat/back Velcro on seat
- insert seat and back cushions
- get into the wheelchair and close the foot rest(s) (lock if necessary)

### SeatFix and/or Moulded Back

If your Jump is equipped with SeatFix and/or a moulded back, please proceed the following way to fold the wheelchair

- secure your wheelchair against rolling away
- loosen the stabilising bar if present
- remove seat and back cushions
- open Velcro between back and seat clothing and pull back
- open locking of SeatFix
- remove SeatFix and/or moulded back
- open foot rest(s)
- grab cross-support pipes at the front on both sides and pull up until Jump is folded
- secure folded Jump with the fold-fixing string

To unfold, please proceed analogically (as described on the left-hand side)

image 1



image 2



image 3



## Coping with Obstacles

To surmount level differences, ramps or lifts should be used whenever possible.

### ATTENTION

(image 1+2) We strongly advise you to surmount stairs only with the aid of two experienced assistants. For this, the safety wheel needs to be deactivated. Please mind that the wheelchair may be held, carried or lifted only on metal parts which are firmly bolted to the frame

### ATTENTION

Do not use escalators in any case – not even with assistants!!! Department stores and public buildings with escalators should always have suitable lifts available.

### ATTENTION

Do not rapidly drive towards offsets (e.g. kerb stone edges) as this implies an increased danger of tipping!

### ATTENTION

Do not jump from stairs or offsets with your wheelchair! This would put you and your surroundings in serious danger, and may damage your wheelchair heavily

### ATTENTION

Please remember deactivate your anti-tippers while using lifts and lifting plates and while surmounting offsets.

image 1



image 2



## Other Dangers

### ▶▶ PLEASE NOTE

Avoid prolonged direct exposure to the sun. Dark parts of the wheelchair may heat up strongly and cause burns

### ⚠ ATTENTION

FLAMMABILITY of textile parts (seat/back covers, seat cushion or plastic parts). Keep flames away from the wheelchair

### ⚠ ATTENTION

Handrims heat up through strong friction, especially when braking during a speedy ride or longer downgrade paths

### ▶▶ PLEASE NOTE

If you have sensitive skin, we recommend using gloves (like the ones used in race cycling - with leather palm protection - NEVER woollen gloves!)

### ▶▶ PLEASE NOTE

(image 1) Avoid using your wheelchair in moist rooms or in water. Building parts may corrode. This affects the driving characteristics and service life of the wheelchair negatively

image 1



## 2.2 Loading and Transportation

### ⚠ ATTENTION

Store your wheelchair securely so it (or parts of it) cannot injure anyone in case of sudden braking.

### ⚠ ATTENTION

We urgently recommend **getting out of the wheelchair for transportation and take seat on a normal passenger seat, using a safety belt.**

### ⚠ ATTENTION

Only use vehicles that have been approved for the transportation of wheelchairs

### ⚠ ATTENTION

If transportation in a wheelchair as passenger seat in a motor vehicle cannot be avoided, the regulations according to ISO7176-19 and DIN 75078-2 must be fulfilled!

### 📖 READ

Read the "General Usage and Safety Advice" carefully

## 2.3.1 Loading

Please mind the following points when transporting your wheelchair in a passenger car

- fold anti-tippers inwards
- remove push handle(s)
- Fold Jump and secure it with fold-fixing-string
- loosen locking brakes and remove rear wheels
- secure wheelchair with belts in the vehicle
- the belts may only be attached on firm frame-parts. Foot rest, side parts, back, or seat holder are not suitable for this purpose)
- Store all removed parts safely enough so they cannot injure anyone in case of sudden braking

### ⚠ ATTENTION

**Loose objects like sticks and bags may fly around and cause injuries**

Before transportation, please gather information from your passenger car merchant on safe securing of the wheelchair with clamp ears or other suitable safety measures in your passenger car.

### 2.3.3 Transportation with Public Transport

Every public transport vehicle is legally bound to provide space for wheelchairs according to EG guideline 2001/85/EG.



#### ATTENTION

**Place the wheelchair (opposing driving direction) on the designated area, making sure that the back and side part firmly rest against the area's boundaries.**

- In case of an accident, the wheelchair must not slip
- Close the locking brake
- Leave the wheelchair during the ride and sit on the seat next to the wheelchair provided for this purpose
- If present, make sure to use the seat belt



#### ATTENTION

**The wheelchair area in public transport is intended for EMPTY wheelchairs only**

Our wheelchair Jump was already tested successfully of ISO 7176-19

Have someone assist you when transferring in and out of public transport vehicles.

- so you do not get caught in the gap between the door and pavement
- so you do not panic
- so someone can help you make sure you get your right to your seat
- so someone can help you transfer seats and securing the wheelchair

### 2.3.3 Transportation of the wheelchair as seat in a passenger vehicle

Given their building characteristics, wheelchairs can never fulfil the stable characteristics of a seat firmly installed in a car.



#### ATTENTION

This is why we do NOT recommend using a wheelchair as seat in a passenger car.



#### READ

Please read the info brochure "Crash Test ISO 7176-19" which describes possible risks and the regulations of ISO 7176-19



#### ATTENTION

**Wheelchairs can only be used as seats in vehicles if they have passed the dynamic crash test according to ISO 7176-19**

Our wheelchair Jump was already tested successfully of ISO 7176-19



Our certified wheelchairs are designated with this logo in our ordering forms



and on the type-plate they are designated with an anchor symbol

If necessary, please consult your supply store or SORG Rollstuhltechnik ([www.sorgrollstuhltechnik.de](http://www.sorgrollstuhltechnik.de)) whether your model is approved as a seat in a passenger car.

### 3. Adjustments on the wheelchair

If no other specifications are indicated, the following torques are valid for screw joints:

- M5: 5 Nm
- M6: 7 Nm
- M6: (perforated plate): 10 Nm
- M8: 20 Nm
- M10 (si-nut): 25 Nm (caster)
- quick-release-axle fitting: 35 Nm

Tools needed:

- torque wrench (5-50 Nm)
- screw wrench
- ratchet wrench with socket
- hexagon screw driver
- plastic hammer
- side cutter
- thread lock, liquid
- bicycle tube reparation kit
- work bench/bench vice with plastic flanges



#### INFORMATION

Technical alterations reserved



#### ATTENTION

All safety-relevant adjustments and alterations on the wheelchair are to be conducted exclusively by a qualified rehab technician



#### ATTENTION

Clean/disinfect the wheelchair before doing any checkups, reparations or adjustments



#### ATTENTION

Make sure the wheelchair cannot tip or fall



#### ATTENTION

Only use original building/replacement parts



#### ATTENTION

Safety nuts may only be used once. If you have to loosen any, they need to be replaced



## 3.1 Building Group Leg Supports

The leg support is ideally adjusted if the complete thigh rests (with a two finger distance between seat and hollow of knee) evenly on the seat cushion/shells while the leg is standing on the foot rest in a right angle. A foot rest positioned too high leads to a permanently buckled position in the pelvic area. If it is adjusted too low, unpleasant congestions in the thighs might occur.



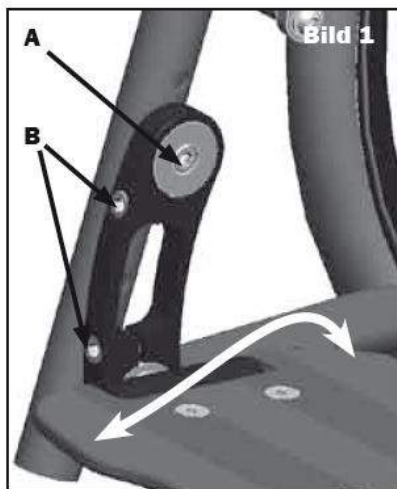
### ATTENTION

**Make sure not to use the leg support to get in or out of the wheelchair to avoid the danger of tipping**

### 3.1.1 Leg Support, Interior Supplement

#### Adjustment of the lower leg length

(image 1) Remove screws (A) in the frame on both sides. Place the frame into the desired position, reinsert screws and tighten them.



#### Adjustment of depth and angle

(image 1) Loosen both screws (B) on both positioning parts, top and bottom. Place the footrest into the desired position/angle and retighten all screws

### 3.1.2 Leg Support, Exterior Supplement

#### Adjustment of the lower leg length

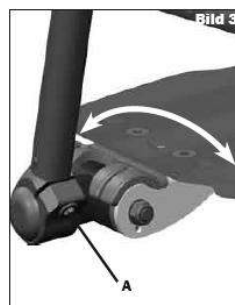
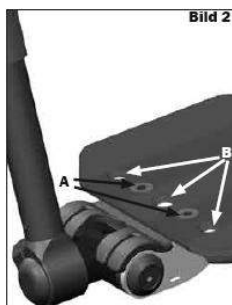
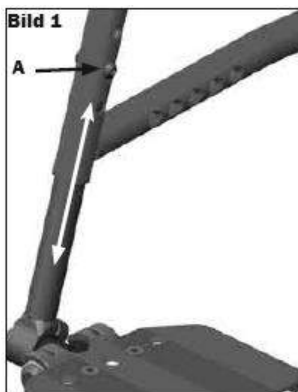
(image 1) As in "Interior Supplement", remove the screws (A) in the frame. Choose the desired position along the perforated plate, reinsert screws, and tighten them.

#### Depth Adjustment

(image 2) You may place the foot rest in three different positions. Remove screws (A) on the foot rest and place them on the alternative position (B). Reposition foot rest, reinsert screws and tighten them.

#### Angle Adjustment

(image 3) Loosen the cylinder head screws (A) in the gripper clamp on both sides just enough so the clamp loosens. Adjust desired angle and retighten screws



### 3.1.3 Undivided Footrest, foldable (sideways)

(Image 1) With the help of a snap-action mechanism the foot rest remains in a vertical position even after opening.



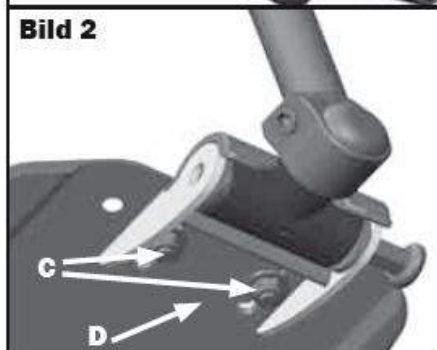
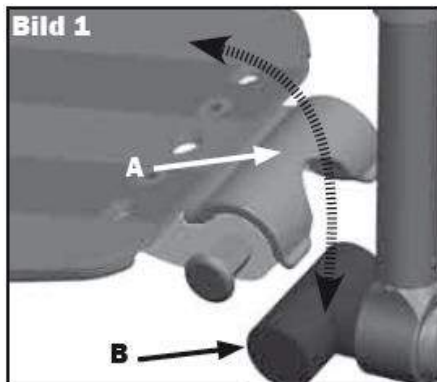
#### ATTENTION

When closing the foot rest, make sure the claw fastener (A) snaps into the joint bolt (B)

(Image 2) To make fine adjustments of the claw fastener in the joint bolts, loosen the nuts (C), move the retainer (D) until the foot rest has closed properly and retighten the nuts.

#### ▶▶ PLEASE NOTE

We recommend using a locking device in order to prevent the foot rest from loosening/snapping out of the joint bolt while driving



### 3.1.4 Undivided Foot Rest, hinged (outwards)

(Image 3) The foot rest may be folded sideways or hinged outwards. After folding it stays in a horizontal position because of a snap-action mechanism. This provides even greater freedom of leg movement.

Adjustments of the angle, depth, and distance, as well as fine adjustments of the claw fastener with respect to the joint are to be conducted as described above.



#### ATTENTION

When closing the foot rest, make sure the claw fastener (A) has snapped properly into the joint bolt (B)

#### ▶▶ PLEASE NOTE

We recommend using a locking device in order to prevent the foot rest from loosening/snapping out of the joint while driving



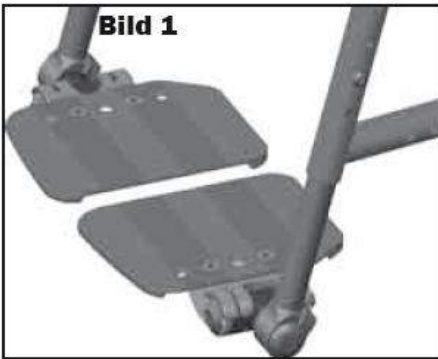
### 3.1.5 Divided Foot Rest, foldable (sideways)

(image 1) The foot rest may be folded away to the sides. The foot plates then remain in a vertical position.

The adjustment of angle and depth is to be conducted as described above.

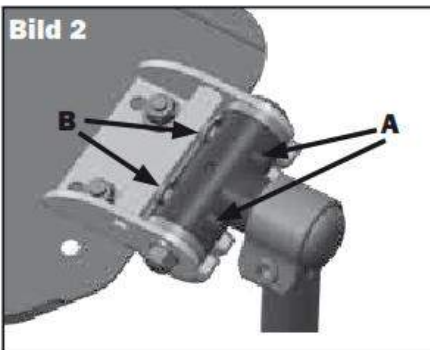
#### ATTENTION

The divided foot rest is not suitable for users suffering from tonic deregulation



(image 2) The foot rest is factory set in a horizontal position. If the foot rests decline during use, they can be adjusted as follows:

- Loosen counter screws (A)
- Turn stop screws (B) in desired position
- Then retight counter screws (A) firmly



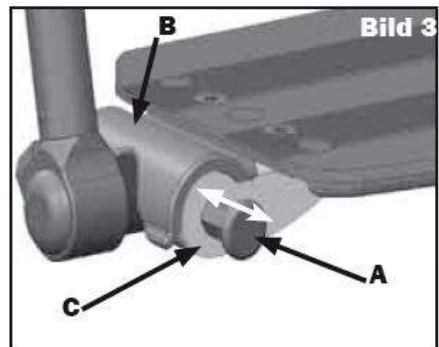
### 3.1.6 Locking Device for the Undivided Foot Rest

(image 3) We recommend using a locking device to prevent the foot rests from opening accidentally.

To open/unlock, please pull the spring bolt (A) and lift the foot rest. To close/lock, close the foot rest via the claw fastener (B) in the joint bolt (C) so the spring bolt snaps in audibly.

#### ATTENTION

When handling the locking device, please make sure not to bruise your fingers and/or lean too far out of the wheelchair: DANGER OF TIPPING.



## 3.2 Seat Components

The seat provides the option of adjusting seat height (back and front), seat angle, and centre of gravity. The appropriate seat height results from a number of factors: Degree of the user's mobility, conditions at home, lower leg length, desired seat inclination, size of rear wheels and casters, and position of the foot rest.



### ATTENTION

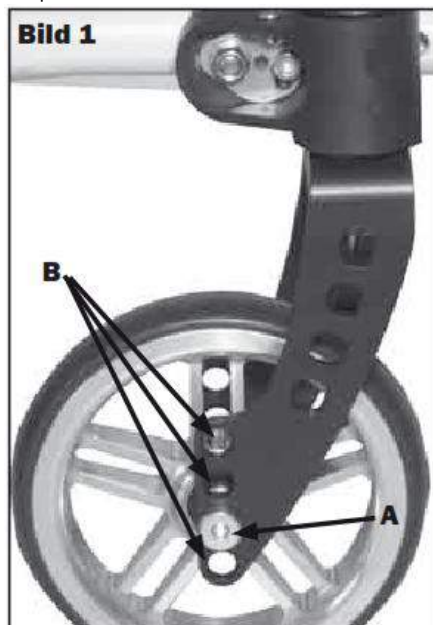
**The further back you place the casters, the higher is the danger of tipping while getting in or out.**

When adjusting the seat height on the front, you should always make sure that you can access tables easily without your knees hitting their edges.

Corresponding to the position of the foot rest, the casters must be free to rotate 360°. If necessary, move the caster holder horizontally. When adjusting the seat inclination, make sure your grip point is not impaired by the high position of the rear wheels.

## 3.2.1 Seat Height Front

The front seat height may be adjusted by altering the position of the caster in the caster fork.



Remove the screw joint caster/caster fork (A) and memorise the position of discs and bushes well. Then place the casters in the desired hole of the caster fork (B) so that they are parallel. Screw everything back on well.



### INFORMATION

Upon conducting changes on the casters, it is important that you make sure the casters are positioned properly in the wheelchair (cf. chapter 3.3.4 Steering Head Inclination).



### ATTENTION

The function of the casters may be impaired by hairs, fluff, and dirt on the caster holders. Remove the casters and clean the forks and axes regularly.

### 3.2.2 Seat Height Back, Seat Inclination

Usually, the seat height at the back is adjusted to be approx. 2-3 cm (0.8-1.2 in) lower than at the front in order to obtain a secure and comfortable sitting position with even distribution of the seat pressure and to straighten up the pelvis. Differing adjustments may also make sense in individual cases.

(image 1) First, remove the rear wheels. Then remove the side parts/clothe guards that are attached with 3 screws (A).

(image 2+3) Then put the quick-release-axle into the new desired position (B) by removing the screw joint of the quick-release-axle-fitting (C) and screwing it back on in the new position (clamping torque si-nuts M18; fitting 35 Nm).



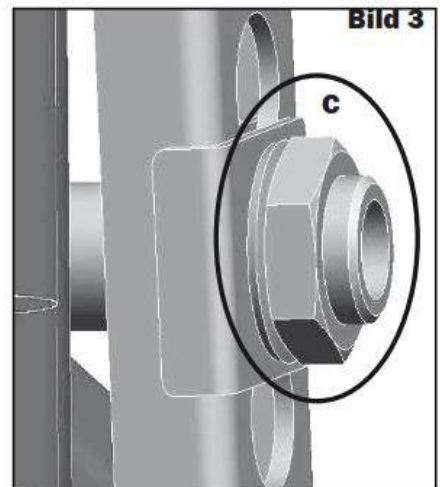
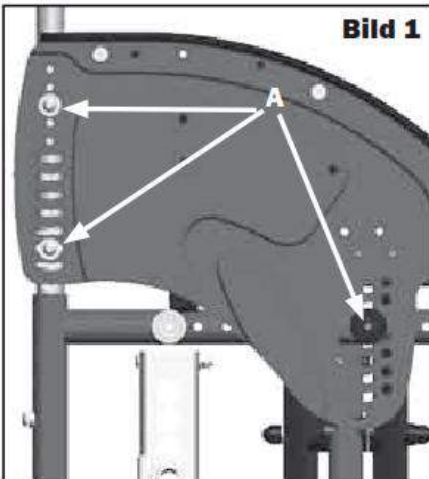
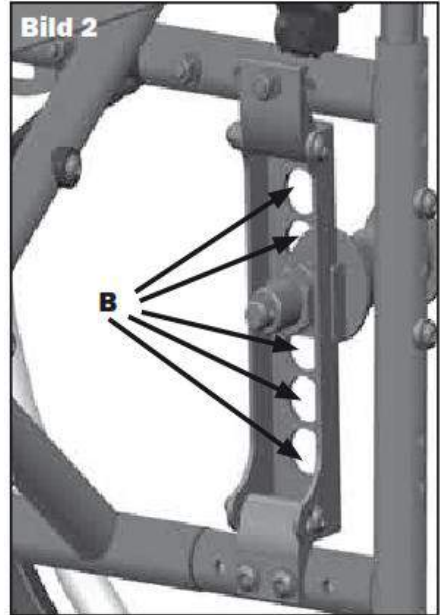
#### ATTENTION

Make sure the fittings protrude the perforated plate to the same extent on both sides. The fittings should be unscrewed just enough so the distance between the tyres and the side parts on the top is as small as possible, yet at least 10 mm.



#### PLEASE NOTE

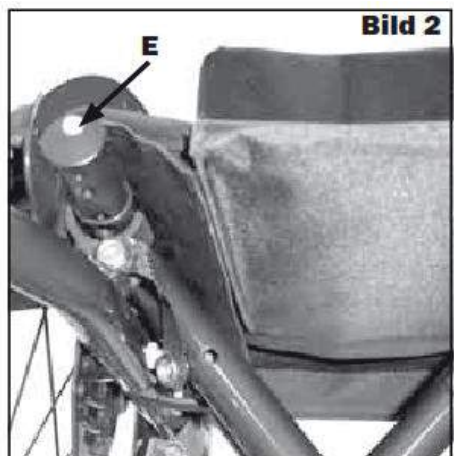
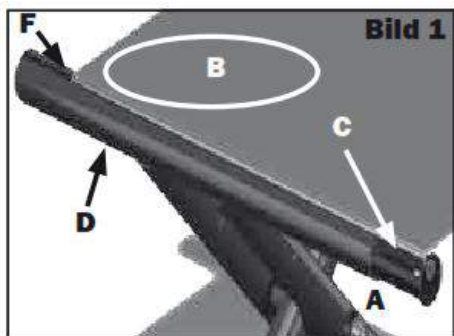
Subsequently, remount the side parts and clothe guards, reinsert the rear wheels into the quick-release-axle and readjust the knee-lever break and casters!



### 3.2.3 Exchanging the Seat Cloth

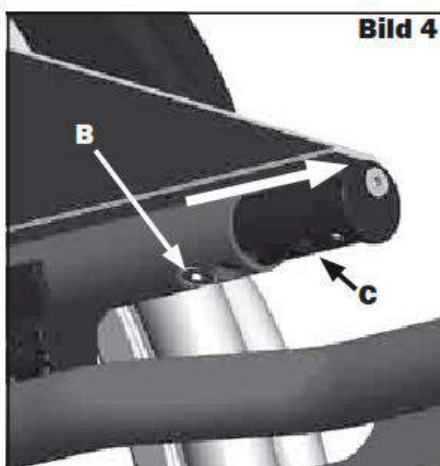
If you need to exchange the seat cloth for hygienic or any other reasons, please proceed the following way:

**(image 1 + 2)** Remove both screw joints **(A)** at the bottom of the seat pipe (cf. also image 4 B). Pull the seat cloth **(B)** with the seat extension **(C)** out of the pipe **(D)**. Remove the screw **(E)** on the seat cloth bars and remove the seat cloth by pulling it to the front along the slit **(F)**. Then thread the new seat cloth onto the cloth bars, put the extension parts **(C)** over, screw them together with the bar via the screw **(E)**, and reinsert the seat cloth into the seat pipes **(D)**. In the end, screw the extension parts together in the desired position via the screws **(A)** und tighten firmly.



### 3.2.4 Altering the Seat Depth with Seat Clothes

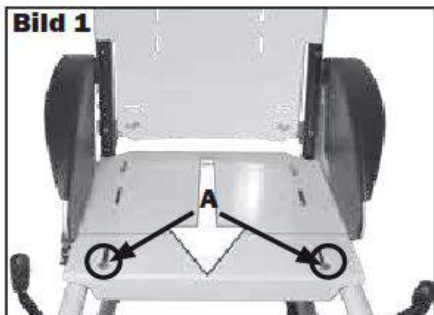
**(image 3 + 4)** Loosen Velcro **(A)** in between seat and back cloth. Loosen screws **(B)** of the seat extension parts **(C)** on both sides (left and right) and pull into the desired position along with the seat cloth. Then, retighten screws **(B)** on both sides firmly.





### 3.2.5 Altering the Seat Depth with SeatFix (optional)

Loosen the screw joints (A) below the seat, pull the extension into the desired position, and retighten the screw joint firmly.



### 3.2.6 Altering the Seat Width

Jump's seat depth can be changed via separators in between frame and side parts by  $\approx 2$  cm. The building parts necessary are provided in a bag below the seat (6 rounded separators and the respective screws).

Remove the rear wheels, cushions and **SeatFix**.

(image 2) Then remove the side parts by removing all screws (A) on both sides.

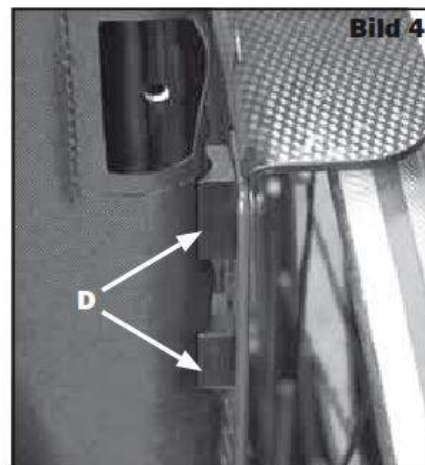
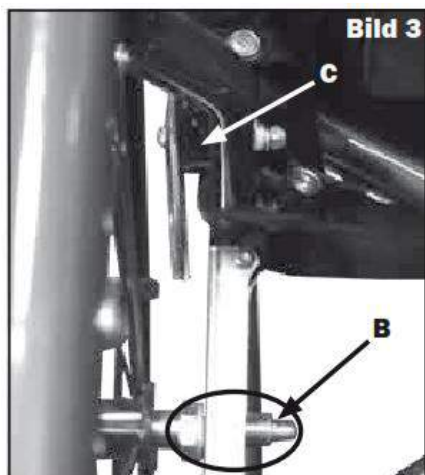
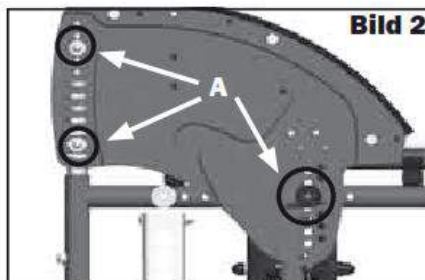
(image 3) Move both quick-release-axle adapters (B) by 1 cm towards the exterior.

Place the separators from the bag onto the separators already on the chair (image 3 + 4, pos. C + D), exchange the screws on the chair with the provided, longer ones from the bag and use them to attach the separators and the side parts firmly onto the frame pipes.



#### ATTENTION

Subsequently, check the functional efficiency of the locking brake and readjust its position if necessary.



## 3.3 Building Group Wheels

### 3.3.1 Removable Rear Wheels



#### ATTENTION

No person is allowed to be seated in the wheelchair while mounting or demounting. The wheelchair must be placed – supported and tilt resistant – on even, firm ground and it must be secured against rolling away and tipping over.

(Image 1) Activate the anti-tipper and loosen the locking brake on one side, push the arrestor button (A) in the wheel hub and remove /attach the rear wheel with the button (A) pushed. After successful installation, the arrestor button should protrude the wheel nut by several millimetres (cf. also image 2 on the next page).

Proceed analogically on the opposite side.



#### ATTENTION

Sand, earth, dirt, moisture, ice may impair the function of the snap-action-mechanism. Clean the quick-release-axes and snap-action mechanisms regularly.



#### ATTENTION

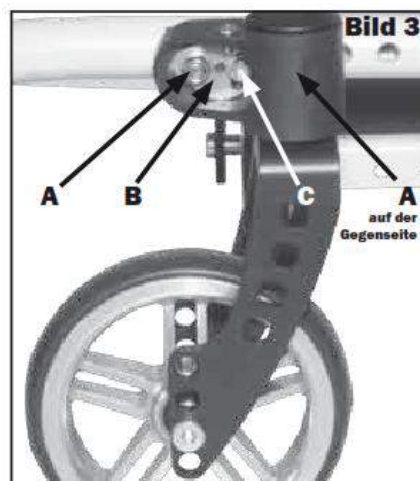
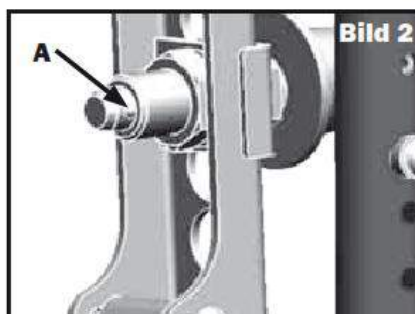
After any changes on the rear wheel, the functional efficiency of the locking brakes must be checked and the casters readjusted.



### 3.3.2 Adjustment Steering Head Inclination

After adjusting the seat inclination, it is important to readjust the steering head inclination because all changes of the centre of gravity, the wheel base, caster axle, etc. directly affect the steering head inclination.

(Image 2) To adjust the caster adapter, loosen both screws (A) that connect the adapter to the frame pipe on both sides. Loosen the screw (C), too. Place the adapters into a perfectly vertical position by turning the adjusting washer (B) (using an Allen key size 4) - check by measuring an angle. Make sure to retighten all screws after finishing your work; screws (A) with 9 Nm, screw (C) with 7 Nm.





### 3.3.3 Adjustment of the Centre of Gravity

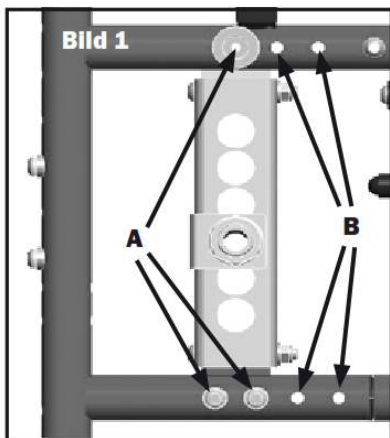
You may change the centre of gravity of the wheelchair (X) by moving the perforated plate. The further to the front the perforated plate is mounted, the more the wheelchair tends to tip backwards. However, it may also be tilted back on 2 wheels more easily. This facilitates, for experienced wheelchair users, to quickly and easily surmount obstacles, as the wheelchair's agility is effectively improved.



Before adjusting the centre of gravity, loosen the locking brake and remove both rear wheels.

(Image 1 + 2) Then remove the screws (A) and move them onto the desired space along the bores (B). Make sure the screws remain parallel on both sides.

Afterwards, screw the perforated plate and the frame together firmly and make sure to correct the position of the locking brake.



#### ATTENTION

Even if the anti-tipper is activated and there is actually no danger, a beginner may be unsettled or even demotivated if the wheelchair's adjustments make it too prone to tipping!

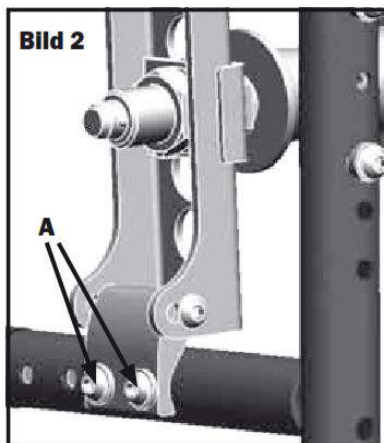
#### ATTENTION

Please work carefully, gradually, and only with the aid of an experienced assistant towards the maximum degree of tipping proneness desired for by the user!



#### READ

Please read the GENERAL SECURITY ADVICE on the topic.



### 3.3.4 Adjustment Camber Inclination

(image 1) By altering the camber inclination you are influencing the tipping stability of your wheelchair (to the sides), the distance to the gripping point and thus the shoulder-rear wheel-position as well as the total track width of the wheelchair.

(image 2) First, remove the rear wheels. Remove the screw joints (A), adjust the desired camber inclination along the holes provided (B), and reinsert the screws without tightening them...

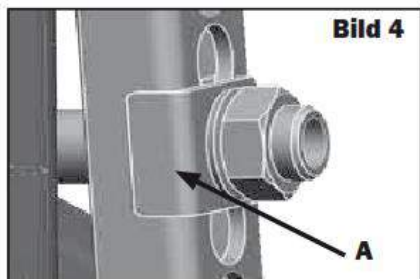
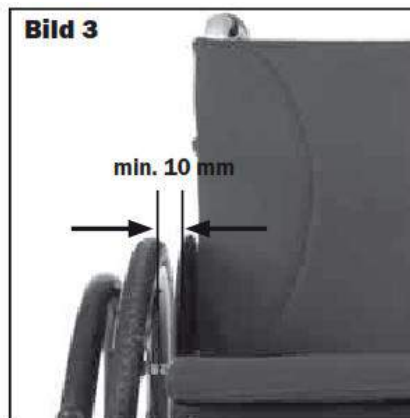
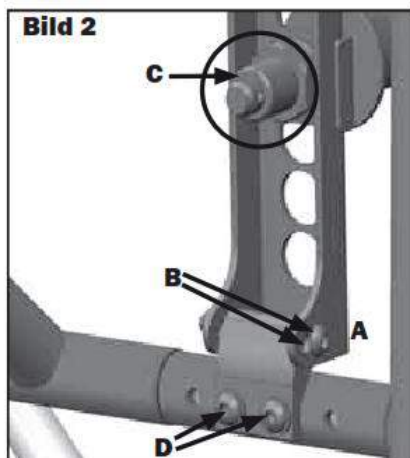
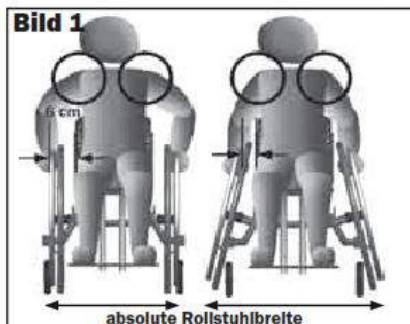
(image 3) Check/correct the distance between rear wheel and side part/cloth guard by briefly inserting the rear wheel. To correct, loosen the screw joint of the quick-release-axle fitting (image 2 C) and turn it outwards or inwards so the tyres' distance to the side part/cloth guard is as small as possible while at least 10 mm. Make sure to have the same distances on both sides!

Then, retighten the screw joints of the fitting (clamping torque, si-nuts M18, fitting 35 Nm), screw perforated plate on with the screw (image 2 A), insert rear wheels, and readjust the knee-lever brake if necessary.

The perforated plates have two bores at the bottom. To adjust even bigger camber inclinations, mount the bottom bracket (D) on the outside. This is **NOT** possible if you want to increase the width of the seat because you would have to turn the quick-release-axle-fittings too far out of the perforated plate.

#### INFORMATION

(image 4) Depending on the camber inclination and seat angle, we mount a factory-made track-balance in order to prevent the so-called "rubber-effect". After changing the camber inclination, the track balancing adapter (A) may have to be replaced with a more fitting one (replacement part).



### 3.4 Building Group Side Parts, Cloth Guards, Arm Pads (optional)

The side parts/cloth guards are supposed to protect you from injuries through the rotating rear wheels and your clothes from getting stained. Therefore, side parts and cloth guards should cover the rear wheels completely (viewed from the side), without however inhibiting their rotation.

**(image 1)** The distance between the top of the wheel and the cloth guard should be at least 10 mm so the cloth guard does not rub on the wheel when loaded with weight. If necessary, loosen the screws **(A)**, adjust the cloth guard alongside the holes, and retighten the screws afterwards.

The distance between wheel and side part should be at least 10 mm for the same reason (cf. **previous page, image 3**). You can alter this distance via the camber inclination and via the screw joint of the quick-release-axe fitting.

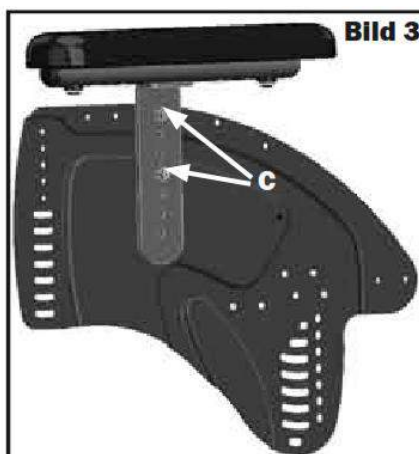
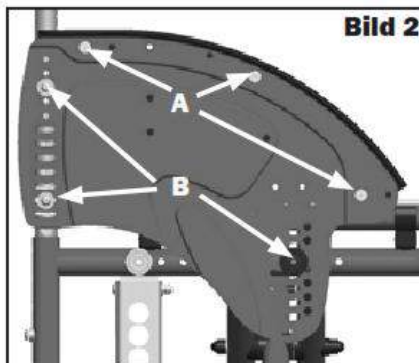
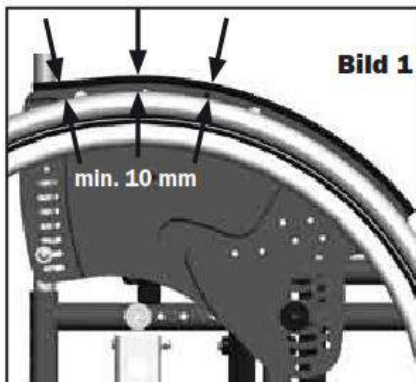
**(image 2)** To adjust the correct height of the side parts, please remove the rear wheels, then remove the screw joints **(B)** at the front and back completely. Change the position of the side parts in the desired way, reinsert the screws and tighten them.

**(image 3)** To adjust the arm pads, loosen the screw joint **(C)** on both sides, place the pads into the desired position along the provided holes, reinsert the screws **(C)**, and tighten them.

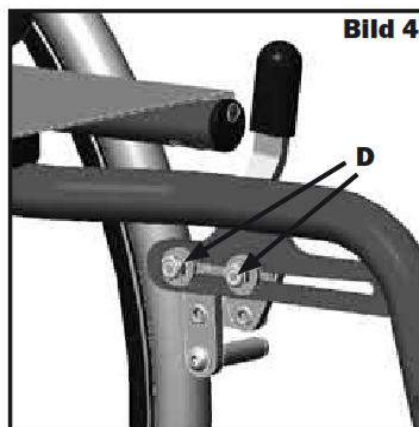


#### ATTENTION

**(image 4)** After conducting any changes concerning the rear wheels, please check the knee-lever brake for functional efficiency and readjust if necessary **(D)**!



### 3.5. Building Group Brakes: Locking Brake



## 3.5. Building Group Brakes: Locking Brake

Each wheelchair is equipped with two knee-lever brakes (**Image 1+2**). They consist of a braking bolt (**A**), a lever (**B**), and an adjusting screw (**C**). They serve **EXCLUSIVELY** to fix the wheels in a resting position. They are **NOT** suitable for braking while driving. For this purpose, please use the grip rings or, if present, the drum brake. (Keep in mind that aluminium grip rings may heat quickly through friction.)



### ATTENTION

For your own safety, make sure your brakes always function flawlessly. Their function may be impaired by too little air pressure of the tyres, moisture, worn-out tyre profile and too big a distance between the brakes and the tyres.



### INFORMATION

Check the firm hold of the braking bolt on the inside of the wheelchair (**D**) regularly.



### ATTENTION

After conducting any changes concerning the rear wheels, readjust the brake and check the brake for functional efficiency and the tyres for air pressure **BEFORE** each ride. On a downgrade path with 6% inclination the rear wheels must not slip through with the locking brake tightened and the passenger sat in the chair.

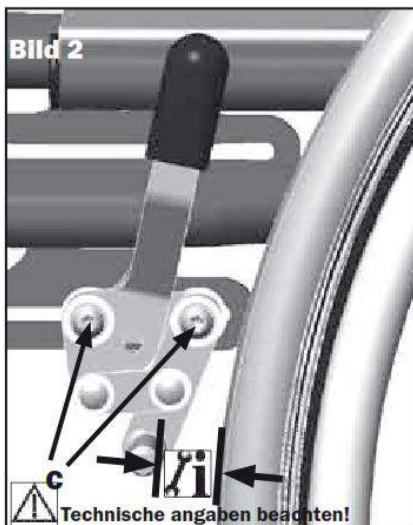
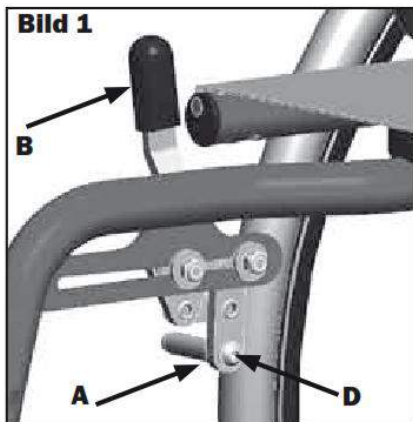


### INFORMATION

If the brake is opened, the maximum distance between brake bolt and tyre should be the following:

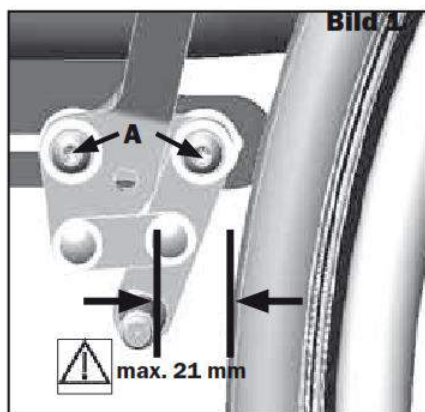
- standard knee-lever brake 21 mm
- pull-to-lock brake 11 mm
- knee-lever brake with recoil blocking system approx. 10 mm
- cable-pull brake 6 mm

(technical alterations reserved)



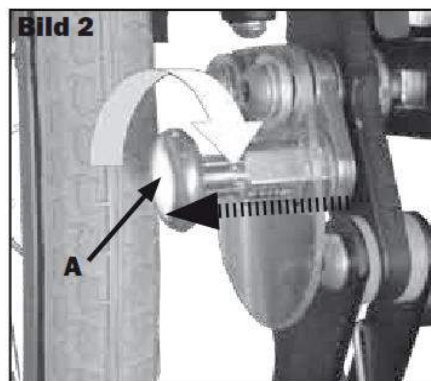
### 3.5.1 Standard Knee-Lever Brake

(Image 1) First, check the air pressure of the rear wheels' tyres (info on tyre). To adjust the brake, loosen both screws (A) on both sides, place the brake into the desired position and retighten the screws (A).



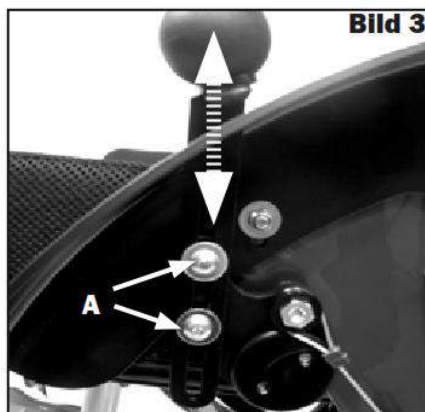
### 3.5.2 Knee-Lever Brake with Locking Device

(Image 2) The adjustment of the lockable brake is the same as that of the standard knee-lever brake. Check regularly if all screws tightened properly, including the ones at the inside of the brake.



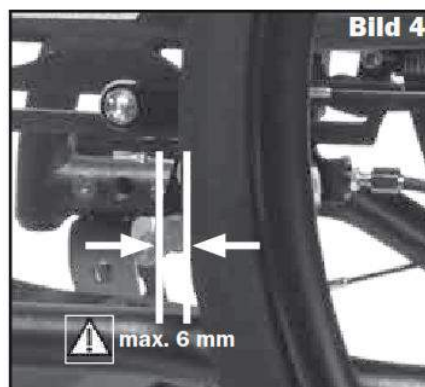
### 3.5.3 Cable-Pull Brake (optional)

The cable-pull brake is inserted into the cloth guard side part and is operated via a cable pull device. It needs to be checked for functional efficiency regularly and readjusted if necessary. The adjustment on the cable pull of the brake is the same as that of the drum brake (cf. 3.7.5 on following page).



(Image 3) To adjust the length of the brake lever, loosen the screws (A), adjust the desired position and retighten both screws.

**⚠ INFORMATION**  
(Image 4) The distance between brake bold and tyre cover must not exceed 6 mm.





### 3.5.4 Drum Brake (optional)

Unlike the locking brake, the drum brake is suitable for braking while driving.

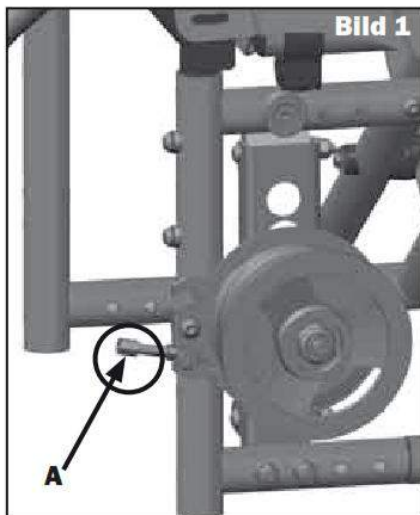
(image 1) The adjustment of the drum brake is to be carried out through a set screw (A) at the lower end of the brake cable. The brake is readjusted by turning the set screw counter-clockwise.



#### ATTENTION

The brake shoes of the drum brake react very sensitively to dirt, fluff, etc. Please clean the brake regularly with a dry brush. When removing and inserting the wheels with the quick-release-axe, make sure not to damage the brake as this would be a considerable safety risk!

(image 2+3) To lock the brake in a closed position (child-proof lock), the latch lever (B) has to snap into the brake lever (A) in the marked section (C). To unlock, please press the brake lever (A) further which will release the latch lever (B) automatically.



#### ATTENTION

Under adverse conditions you might bruise your fingers in the marked section (C) while blocking the latch lever.

### 3.5.5 Attendant Brake (optional)

Like the standard knee-lever brake, the attendant brake is operable by the user. Additionally, it can be operated and locked by an assistant via the cable pulls and hand brake lever (image 2) on the push handles (C).



#### ATTENTION

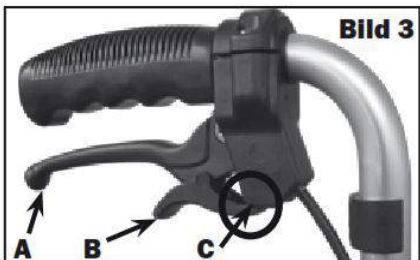
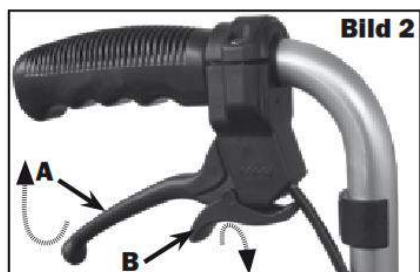
All indications for handling and adjustment of the drum brake apply equally to the attendant brake!



#### ATTENTION

The attendant brake can be used IN A LIMITED WAY for braking while moving, PROVIDED that the tyre pressure is correct and the brake bolts are not worn out.

(image 2+3) To decelerate while driving, press the brake lever (A) carefully.



### 3.6 Building Group Anti-Tipper (optional)

The anti-tippers prevent your wheelchair tipping backwards unintentionally. It is thus of utmost importance for your safety and we recommend paying special attention to this device.



#### ATTENTION

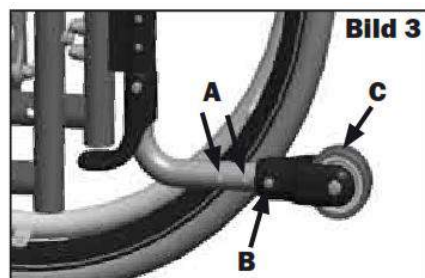
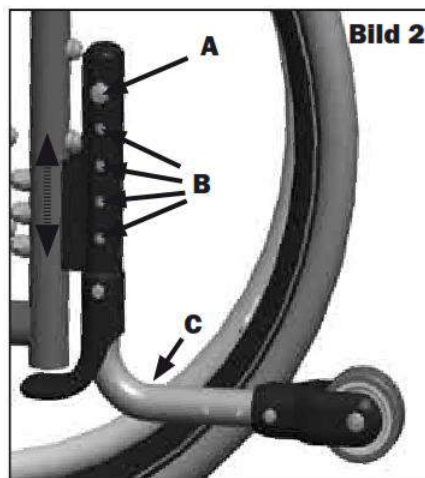
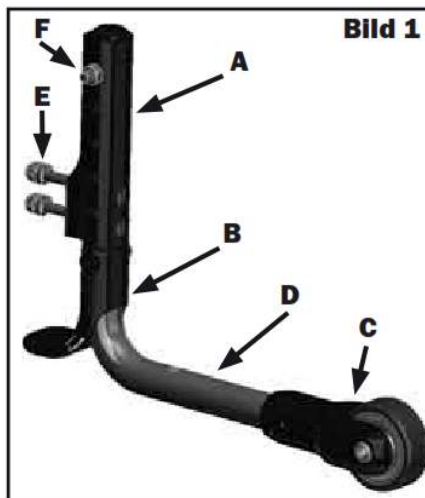
**Please also read the relevant chapters in the SAFETY INSTRUCTIONS.**

(image 1) The anti-tipper consists of 4 main parts: the anti-tipper-bracket (A), the step part (B), anti-tipper wheel with bracket (C), and the anti-tipper bar (D) (rotatable by 180°, can be pulled down, sometimes inserted into the anti-tipper-bracket). The height of the anti-tipper may be adjusted via a single screw.

(image 2) Please remove the rear wheels so you can comfortably reach the screws. To adjust the height of the anti-tipper, remove the screw (A) and move the anti-tipper bar (C) into the desired position (B). Then, tighten the screw joint just enough so the anti-tipper bar may still be moved down and rotated.

(again image 1) If you want to place the anti-tipper into a particularly high position, you may turn the anti-tipper-bracket (A) 180° upwards. To do this, remove both screws (E) and the screw (F), remove the anti-tipper bar (D) and turn it by 180°, screw the anti-tipper bracket back into the frame pipe, reinsert the anti-tipper bar into the bracket and position it according to your requirements using the screw (F) in the holes (B, image 2).

(image 3) If you have adjusted your wheelchair to a very pro-active state and you feel the anti-tipper protrudes too much at the back, you may shorten the anti-tipper bar. To do this, remove the anti-tipper wheel with the bracket (C) with the screw (B), shorten the anti-tipper bar with a suitable saw to get the desired length and reinsert the anti-tipper wheel with the bracket. Insert the screw (B) into the respective hole (A) and tighten it firmly.



## 3.7 Building Group Back

### 3.7.1 Adjustable Back Cover (optional)

You may choose to have your Jump equipped with adjustable back belts. They allow for an individual forming of the back.

If, for instance, the upper belts of the back are adjusted loosely, the back becomes more moulded which results in higher body stability on the sides.



#### ATTENTION

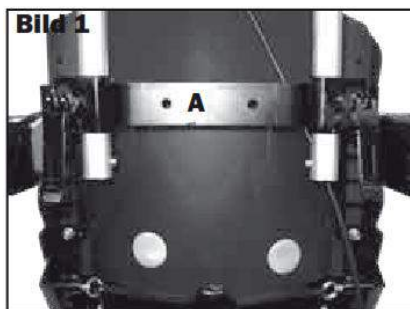
By doing this, you are influencing the centre of gravity and tipping proneness of the wheelchair. Keep this in mind while adjusting the back cover.

To adjust, please remove the back cushion (A, image 2) and the cover on the back (A, image 3) of the Velcros (B, image 3). Loosen the Velcro-fluff link (A, image 4) of the belts that are to be altered, adjust the new length and reattach the Velcro-fluff link. Then, place the back cover (A, image 3) back onto the Velcros and close well at the bottom edge (C, image 3).



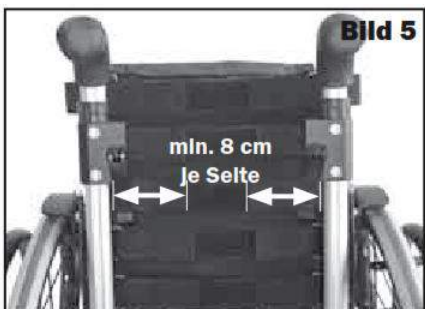
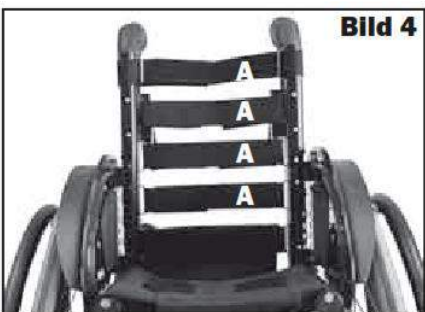
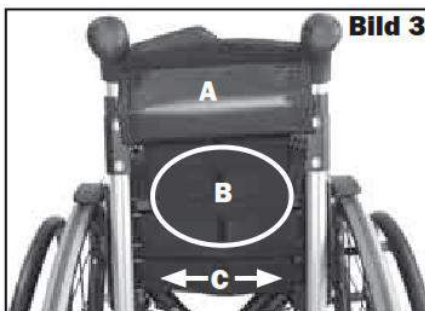
#### ATTENTION

(image 5) The Velcro-fluff overlap must be at least 8 cm on each side.



#### ATTENTION

If using a stabilising bar (image 1, A), please keep in mind: the slack of the back cover must not be so big that the back touches the stabilising bar. Danger of pressure marks!

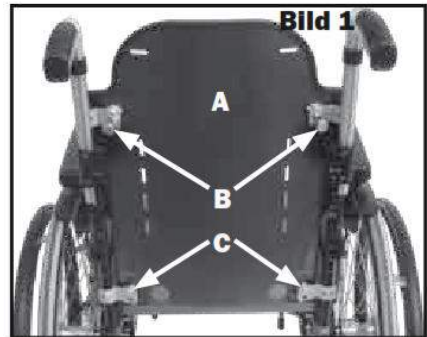




### 3.7.2 Moulded Back (optional)

(image 1) To remove the moulded back (A), open the lock on the back (B) by pulling out the snap lock and simultaneously turning by 90° (image 2). The arresting bolt remains in an open position. The moulded back is not locked on the lower guide pins (C).

(image 3) To insert the moulded back, insert the guide pins (image 1, C) into the slots of the bracket (A) at the top and bottom.



#### ATTENTION

All four guide pins must be held securely in the brackets.

Close the lock by turning the snap lock until the bolts have snapped in well.



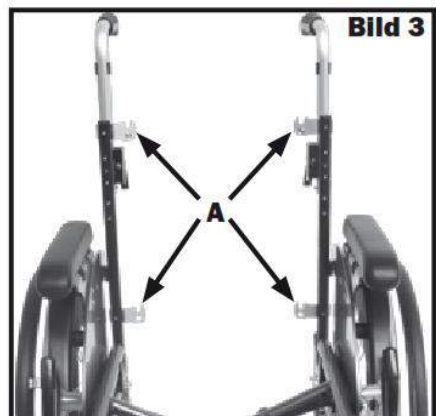
#### ATTENTION

Make sure the moulded back is firm and steady. Otherwise the wheelchair cannot be used.



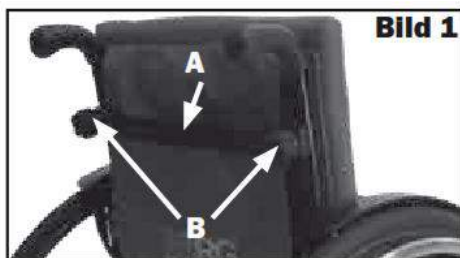
#### PLEASE NOTE

If your wheelchair is equipped with a stabilising bar, open and close it as described in the following chapter.

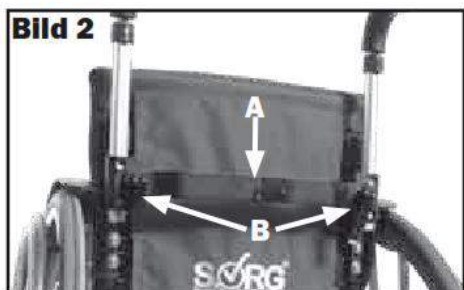


### 3.7.3 Stabilising Bar (optional)

There are two versions of the stabilising bar: **(Image 1)** Stabilising bar **(A)** when using **standard push handles**. To fold the wheelchair, loosen the star knob screws **(B)** on both sides just enough so you can pull out the stabilising bar on the right side (downwards). To close after unfolding the wheelchair, move the guide slot on the right side of the stabilising bar from the bottom upwards in between back pipe and star knob screw. Tighten the screw firmly and make sure the stabilising bar is firm and steady.



**(Image 2)** Stabilising bar **(A)** with **extensible push handles**. To fold and unfold the wheelchair, please proceed as described above, except for loosening the eccentric clamp **(B)** instead of the star knob screw.



#### ▶▶ PLEASE NOTE

Should there be a head rest mounted to the top of the stabilising bar, you must remove the bar before folding the wheelchair by removing BOTH star knob screws/eccentric clamps completely.

#### ▶▶ PLEASE NOTE

Should your Jump be equipped with a firm moulded back, open the stabilising bar before folding the wheelchair as described above and then remove the moulded back (as described).

### 3.7.4 Back Angle Alteration (optional)

(image 1) The back angle may be altered individually in small steps (B) from 80° to 120° (or may be folded onto the seat) by pulling the arresting bolts (A) with the cable pulls. To do this, pull the ring (C) of the string and thus loosen the arresting bolts on both sides.

(image 2) After adjusting the desired angle, let the bolts (A) snap into the raster hole (B) and make sure both bolts have snapped in properly (C), meaning they protrude the angle device.

To reverse the angle alteration, please proceed the same way.

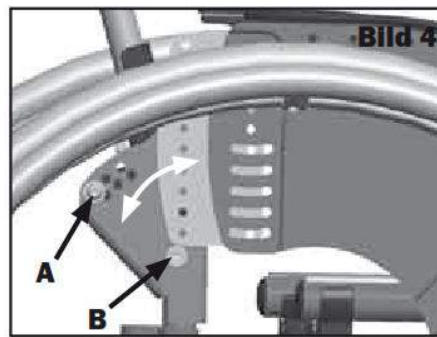
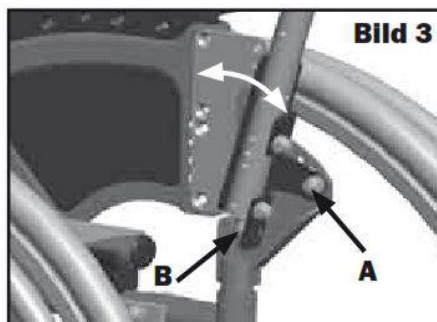
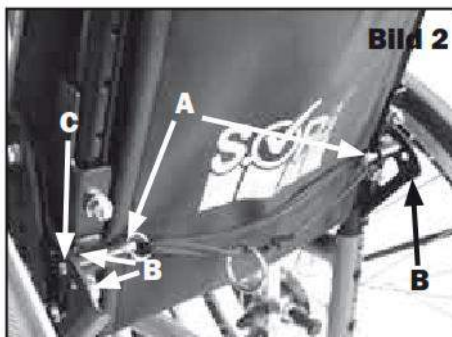
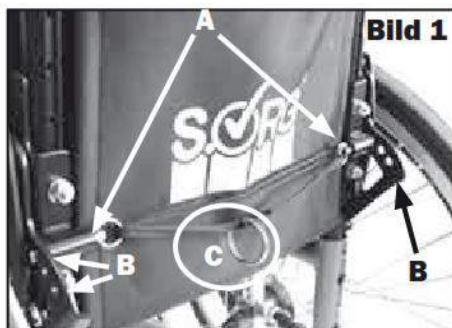
#### ATTENTION

Please keep in mind that by altering the back angle you are also changing the centre of gravity of the wheelchair (DANGER OF TIPPING).

### 3.7.5 Back Angle Adjustment (optional)

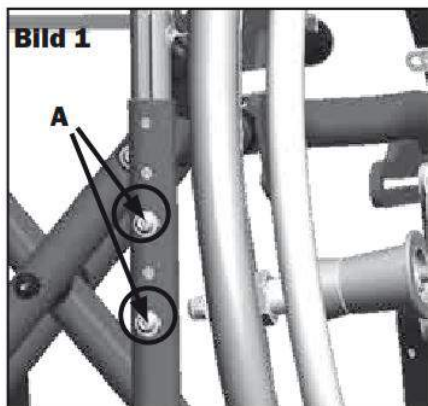
(image 3 and 4) In our factory, we firmly adjust the back angle to 90° with respect to the seat (if not indicated otherwise). It may, however, be readjusted according to your individual requirements.

To do this, remove the screw joint (A), loosen the screws (B) and incline the back pipes into the desired position. Then insert the screws (A) into the new position and tighten firmly. Make sure the angle adjustment is identical on both sides.



### 3.7.6 Standard Back Extension

(Image 1) Remove the screw joint (A) of the back pipes of the frame on both sides, move back pipes into the desired position, re-establish screw joint and tighten firmly.



### 3.7.7 Extension for Back with Angle Alteration or – Adjustment

**Height adjustment by 5 cm:**

(Image 2) Remove the screw joint (A) of the back pipes on both sides, move the back pipes into the desired position, and re-establish/tighten all screw joints.

**Height adjustment by 2.5 cm:**

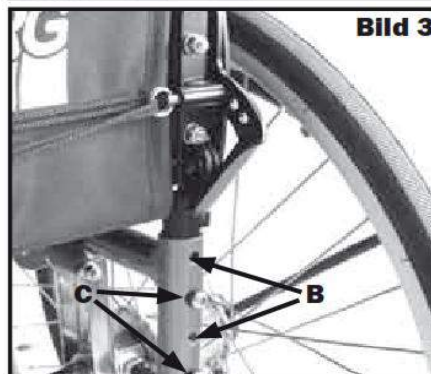
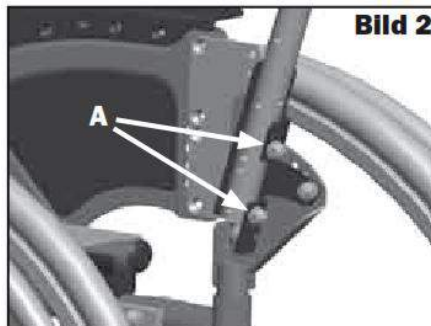
(Image 3) Remove screw joint (C), move back pipes up on both sides, and screw on tightly into new holes (B).

#### ▶▶ PLEASE NOTE

If you have extended the back by 2.5 cm before, you have to reverse the process before making any further extensions because the extension by 5 cm is conducted via the upper part of the back pipes.

#### ▶▶ PLEASE NOTE

Keep in mind that by making these changes you are altering the pivotal point of the back angle alteration.



## 3.8 Building Group Push Handles



### ATTENTION

Make sure to read the enclosed brochure on "General Usage and Safety Advice".

### ▶▶ PLEASE NOTE

When playing with other children, it is strongly recommend to remove the push handle, because the child might not be able to anticipate the swivel radius and might thus involuntarily injure other children!

### ▶▶ PLEASE NOTE

To adjust the height and to remove the handles, please proceed the same way for all versions.



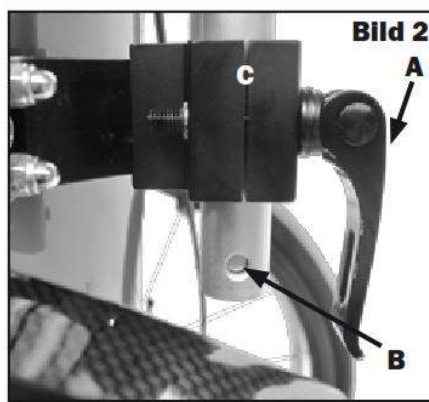
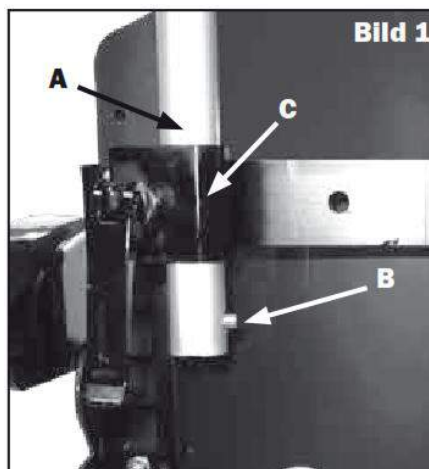
### Removing the Push Handles

**(image 1)** At the bottom end of the push handle **(A)** there is a stand spring **(B)** which prevents the push handle from sliding out of the bracket **(C)** while adjusting the height **(image 1)**.

**(image 2)** Open the eccentric clamp (clamp lever) **(A)**. Push the safety-button **(B)** on the push handle down, hold it in this position while simultaneously pulling the push handle out of the bracket **(C)**.

To insert the push handle, please open the eccentric clamp again. Push the safety button down again.

In the end, close the eccentric clamp and make sure the push handle is attached firmly.



### 3.8.1 Standard Push Handles

(image 1+2) All our push handles have black plastic push handle caps at their end. They are firmly glued to the pipe.



#### ATTENTION

Under unfavourable circumstances, however, the caps may detach from the pipe - for example under great heat, moisture, or extreme pressure.



#### ATTENTION

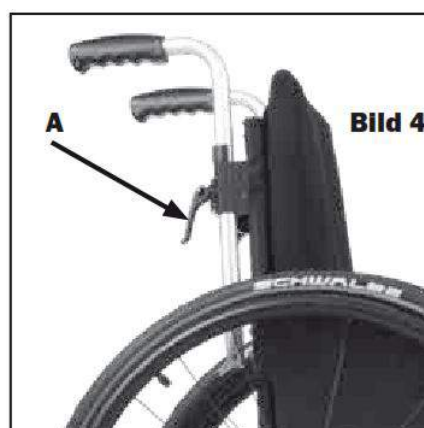
Before using the push handles (e.g. when surmounting obstacles), always make sure everything fits firmly.



### 3.8.2 Extensible push handles (optional)

(image 3+4) To vary the height of the push handles, loosen the eccentric clamp (A) and adjust the desired height. Always make sure to tighten the clamp levers tightly after adjustment in order to be able to handle the wheelchair reliably.

To remove all height-adjustable push handles, please proceed as described on the left.





## 3.9 Building Group Equipment

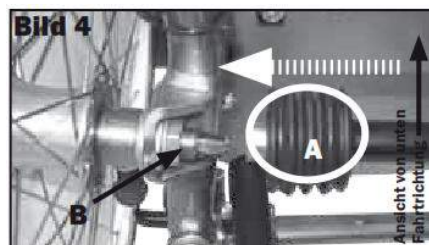
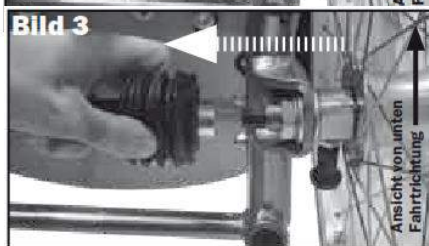
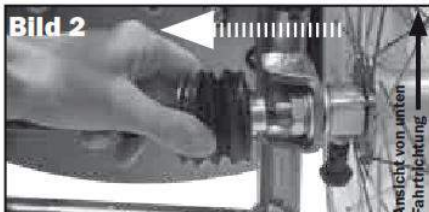
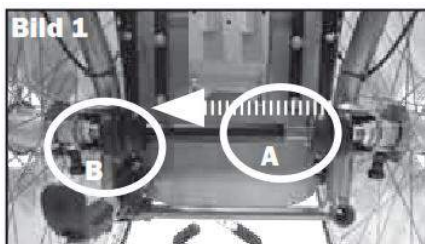
### 3.9.1 Double Grip Ring

The double grip ring is an aid serving the single-handed operation of the wheelchair which needs to be practised. So please familiarise yourself with this feature on even ground first.



#### ATTENTION

May cause considerable safety risks if used unpractised.



#### ATTENTION

Keep in mind that braking via the double grip ring takes considerable skill and strength.



#### ATTENTION

Secure the wheelchair against rolling away before removing or inserting the telescopic tube.

(image 1-3) Before folding the wheelchair, **remove the telescopic tube** by pulling its open end (A) in the direction of the arrow.

(image 4) To insert the telescopic tube, first insert the closed end (A) into the screw adapter (B), then pull the open (image 1, A) back somewhat and insert it into the opposite screw adapter. It has to sit firmly on the screw adapter.

(image 5) To **remove the rear wheels**, open the spring bolt (A) from the back of the wheelchair (pull out and turn by 90°) and pull the rear wheels out of the axle-fitting (B). To insert the wheels, proceed analogically.



#### ATTENTION

The spring bolts need to be closed properly afterwards.

### 3.9.2. Abduction Wedge (optional)

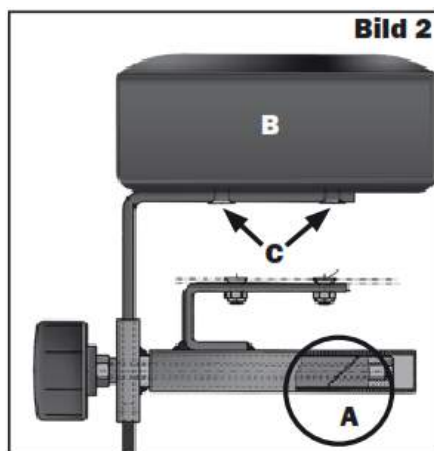
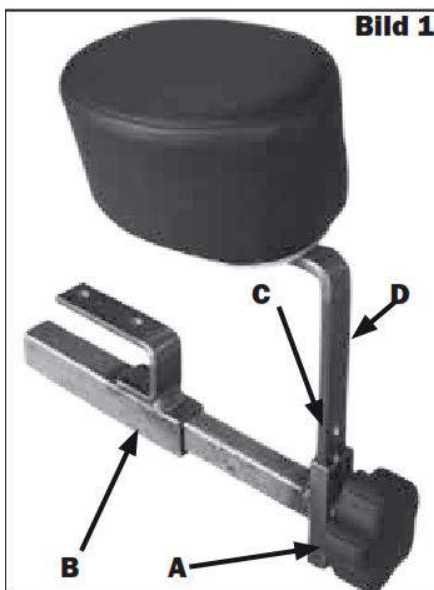
The abduction wedge is supposed to keep the thighs apart. This is often useful for children with excessive muscle tonicity in the legs in order to achieve a better overall tonicity. For some children it is only then they are able to accept and use the wheelchair.

**(image 1)** The abduction wedge is mounted below the SeatFix/seat plate and is adjustable in depth (with respect to the seat) via the star knob screw **(A)**. To adjust the desired position, please loosen the star knob screw **(A)** at the front by turning slightly, insert the abduction wedge inside the guide shaft **(B)** into the desired position and retighten the screw.

To adjust the height of the wedge, remove the star knob screw **(A)**. Move the wedge along the holes given **(C)** on the wedge adapter **(D)** into the desired height. Reinsert the star knob screw **(A)**, insert the wedge adapter into the guide shaft **(B)** and retighten the star knob screw **(A)** tightly.

**(image 2)** Usually it is enough to loosen the wedge and push it forward slightly when getting into the wheelchair. Please avoid removing the wedge with the wedge adapter completely from the guide shaft for the clamp device **(A)** may suffer damage under unfavourable circumstances.

To exchange the wedge cushion **(B)**, remove both screws **(C)** below the cushion, exchange the wedge, reinsert the screws **(C)** and tighten them firmly.





### 3.9.3. Head Rest (optional)

Our head rests are adjustable in height, depth, and angle.

**(image 1)** Loosen them clamp lever/adjusting screws **(A)** by turning the connection (to be adjusted) a few times and tighten after reaching the desired position.

The angle may be adjusted by loosening the screw joint **(B)** slightly and arresting in the new desired position.



### 3.8.2 Side Pads (optional)

If your Jump is equipped with side pads, you may adjust them in vertical and horizontal position via the different bores on the back pipe/moulded back.

**(image 2)** Loosen the crews **(C)**, adjust the desired position, and retighten the screws.



## 4. Reparations

Please do never conduct reparation and/or maintenance work yourself, but turn trustfully to your medical supply store. The staff there is introduced to the conduction of such work, possess all necessary tools and trained workers.

### 4.1 Service

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

### 4.2 Replacement Parts

Original replacement parts are to be used exclusively! They are available at your medical supply store.

#### ▶▶ PLEASE NOTE

**Parts from other companies may cause faults and become a safety risk.**

**Lists of replacement parts with the respective order numbers and drawings are available at your specialised trade and may be requested from us.**



#### ATTENTION

**Because of the risk of accidents, security-relevant parts or component groups are only to be installed by a medical supply store qualified for this purpose.**

For correct delivery of the replacement parts, the respective serial number of the wheelchair needs to be indicated! It can be found on the type plate on the frame of the wheelchair.

For each altering or modification of the wheelchair by your medical supply store, the respective information, like e.g. mounting and/or application indications with the date of the altering are to be enclosed to this user manual.

## 4.3 Disposal

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

Our packing 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 Tyre Change

With a little bit of technical skill and suitable tools, you can fix a flat tyre yourself. It is advisable to always carry a reparation-set and an air pump for emergencies. You may purchase suitable air pumps at your specialised trade. An alternative would be a puncture repair spray which fills your tyre with setting foam (available at the specialised trade).

### **Demounting:**

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

### **Reparation:**

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 tyre for foreign objects which might have caused the flat tyre.

Only use rim bands which are in perfect condition to protect the tube from damage 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 tyre part over the bead of the rim. Inflate the tyre until round. Insert the weakly inflated tube into the tyre cover. Check the tube for smooth fit. Then you can easily mount the upper part of the tyre behind the bead of the rim with both hands. Start with the part of the valve which is faced away.

### **Inflation:**

Check whether the tube is perfectly clamped between tyre and cover.

Check fit of the valve.

First, inflate the tyre just as much so you can still impress it with your thumb. Check the fit of the tyre on the rim. If the tyre cover is not centric on the rim, deflate the tyre a bit, and readjust it. Then inflate the tyre to maximum operating pressure (cf. tyre cover) and close the valve with the protection cap.

## 5. Maintenance

### 5.1 Cleaning and Attendance

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

#### ▶▶ PLEASE NOTE

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.

#### SURFACE COATING

To tend the finish, we recommend using customary branded finish care products. Should the coating nevertheless be damaged through scrapers, crushes, etc., you may correct those spots with a touch up applicator available in the specialised trade (apart from metallic and dormant colours).

#### PLASTIC PARTS

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



#### ATTENTION

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

#### PADS AND COVERS

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

#### ▶▶ PLEASE NOTE

Please clean other pads and covers (e.g. from seat shells) with warm water and hand flush fluid. Many stains may be removed with a sponge or a soft brush.

#### FRAME

The frame and the wheels should regularly be cleaned wetted with a mild cleaning agent. Please dry well afterwards.

#### CASTERS

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

#### ▶▶ PLEASE NOTE

Please check the carriage for corrosion damage as well as other damage regularly. Oiling all versatile parts lightly and regularly obviates such damages and enables you to profit from your wheelchair for a long time.

## 5.1 Disinfection

For disinfection 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 disinfecting your wheelchair, please clean all pads and handles in the way indicated.

### INFORMATION

Do not use aggressive cleaning agents/solutions or rough brushes.

## 5.2 Reuse

### ▶▶ PLEASE NOTE

Before every reuse, the wheelchair must undergo complete, thorough and qualified inspection and disinfection.

### ▶▶ PLEASE NOTE

The measures necessary for reuse are to be conducted according to a validated hygiene plan.

## **6. Maintenance/ Inspection**

### **6.1 Check Lists**

Regular, yearly inspection conducted by a qualified medical supply store is an essential component of the wheelchair's product liability/safety and long service life. Moreover, the inspections serve as verification of the service ability for the benefactor in case of reuse.

For reasons of safety and to prevent accidents resulting from abrasion not recognised on time, yearly inspection is designated under normal operating conditions. It is to be conducted according to the following maintenance manual.

According to applicable law, this inspection is part of the commitment of the benefactor towards the user of the wheelchair and has to be borne by him. For detailed coordination, we recommend you arrange agreements with your benefactor in the forefront of supplying medical aids.

In order to guarantee your wheelchair to have the highest degree of safety and reliability possible in any situation, please works to a professional repair shop qualified for this purpose.

The staff of the professional repair shop is familiar with the technique of the vehicle, possess suitable tools and will use original replacement parts. Beginning abrasion can be recognised and prevented by them in due time.

If reparations need to be done, have them documented in the maintenance plan.

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WHEN	WHAT	COMMENTS
<b>Every 4 weeks</b>	<b>Retighten all screw joints</b> With daily usage leading to permanent vibration, the screws may loosen. This is why we recommend to retighten <b>ALL</b> screw joints systematically.	Conduct yourself or with the help of an experienced assistant.
	<b>Check tyre profile</b>	Conduct yourself or with the help of an experienced assistant.
<b>Every 2-3 month</b> (depending on driving performance)	<b>Clean and grease all versatile parts</b> All moving parts, such as brakes, brake levers, quick-release-axles, caster bearings, anti-tipper adapter etc.	Conduct yourself or with the help of an experienced assistant. Clean all components thoroughly before greasing and remove leftover of old oil. Then apply some drops of oil and wipe away superfluous oil.
	<b>Retighten spokes</b>	<b>To be conducted by the medical supply store!</b>
<b>Every 6 month</b> (depending on driving performance)	<b>Check frame for cracks, corrosion and damage</b>	<b>To be conducted 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.
	<b>Maintain locking brake</b>	<b>To be conducted by the medical supply store! Inspect brake for symptoms of fatigue or abrasion.</b>



## 6.2 Maintenance List

The following maintenance manual presents a mandatory guideline for the conduction of maintenance work which should help you keep your wheelchair in a proper condition for as long as possible. However, it does not inform you about the extent of maintenance and reparation work actually necessary for your wheelchair in a given situation.



### ATTENTION

**So please consider that even regular maintenance cannot be guarantee for absolute usage/traffic safety of your wheelchair. In some cases, reparation or adjustment work may have to be conducted immediately in order to prevent danger for you.**

If the wheelchair is reused someday, the maintenance plan will be a valuable source of information for the benefactor to plan a potential further use of the wheelchair.



### ATTENTION

**Being a participant in public traffic and the owner of the wheelchair, you are responsible for the functional safety and flawless state of your wheelchair.**



### ATTENTION

**Insufficient or neglected maintenance and care of the wheelchair do not only pose a great safety risk but may also result in limitation of product warranty.**

## 6.3 Check List, Yearly Inspection

### PREPARATORY WORK

Please remove the moulded seat and back parts, the push handles, the wheel guard cover and the foot rest. If necessary, please clean 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 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 state of tyres and cover as well as tyre pressure and valves; replace if necessary.
- ☐ Check all spring-loaded devices (quick-release-axle, stand spring on push handle, etc.) for functional efficiency and replace if necessary.

### CARRIAGE

- ☐ Check fixation of casters and rear wheels.
- ☐ Check functional efficiency of the quick-release-axes
- ☐ Check tyres, air pressure and valve, exchange if needed.
- ☐ Check caster bearing, caster fork and caster mounting bracket for condition, functional efficiency and running characteristics.

**BRAKES**

- ☐ Check brakes for functional efficiency.

**OILING AND GREASING**

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

**FINAL CHECK\_UP**

- ☐ General function check-up of all mechanical adjusting devices.
- ☐ Additional braking, steering and driving tests on upgrade and downgrade paths.

## 6.4 Documentation Yearly Inspection

	Work due according to check list		
Date, Stamp medical supply store, Signature			
Date, Stamp medical supply store, Signature			
Date, Stamp medical supply store, Signature			
Date, Stamp medical supply store, Signature			
Date, Stamp medical supply store, Signature			
Date, Stamp medical supply store, Signature			

## 7. Technical Data

### 7.1 Measures and Dimensions

Dimension tolerance  $\pm 5^\circ$

#### Abbreviations:

SW = Seat Width

SD = Seat Depth

BH = Back Height

SH = Seat Height

LLL = Lower Leg Length

#### Data:

Model: Jump

German Aid Index No°: 18.50.03.1xxx

Type: 485

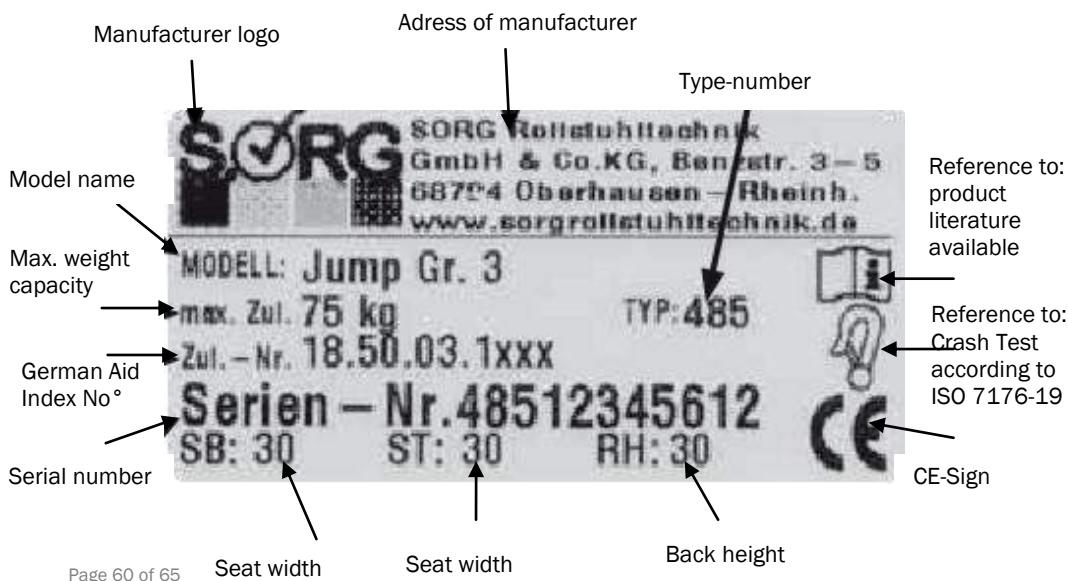
Type plate on frame pipe

#### Support point for transportation:

- seat pipes when folded
- frame front end left/right

### 7.2 Meaning of Labels

The elements of the type plate on the axis of Jump have the following meanings:



## 7.3 Measures and Dimensions

Name	Measures	Comment
Seat width (SW)	24-38 cm in 2-cm-steps	growable by +2cm per SW
Seat depth (SD)	26-38 cm in 2-cm-steps	growable by max. +4 cm per SD
Back height (BH)	25-40 cm in 2.5/5-cm-steps	growable by max. +5 cm per BH
Lower leg length (LLL) Interior annex	2.5 - 29.5 cm	measured <b>WITHOUT</b> seat cushion (= distance footrest-seat)
Lower leg length (LLL) Exterior annex	29 - 48 cm	
Frame size 1	SD 24-28 cm with wheel size 20"-22"	
Frame size 2	SD 28-32 with wheel size 22"-24"	
Frame size 3	SD 34-38 with wheel size 24"	
ERTRO wheel size 20"	Ø 451 mm	
ERTRO wheel size 22"	Ø 451 mm	
ERTRO wheel size 24"	Ø 540 mm	
Camber inclination	2°, 5°, 8°	
Seat height (SH) front, min.	395 mm	Seat heights measured from seat's top edge to ground, <b>WITHOUT</b> seat cushion!
Seat height (SH) front, max.	500 mm	
Seat height (SH) back, min.	340 mm	
Seat height (SH) back, max.	495 mm	
Total wheelchair width, min.	SW + 200 mm	Dependent on camber inclination and tyres chosen
Total wheelchair width, max.	SW + 405 mm	
Total wheelchair length, min.	620 mm	(WITHOUT outdoor-front-end)
Total wheelchair length, max.	1080 mm	
Total wheelchair height, min.	620 mm	Dependent on push handles
Total wheelchair height, max.	1480 mm	With height-adjustable push handles in maximum position
Permissible incline	6% = 3.5°	Dependent on wheelchair
Permissible decline	6% = 3.5°	
Tipping-stability	6% = 3.5°	
Turning radius	approx. 100 cm	

		size
Payload (max.)	75 kg	
min. payload to be fit for use = SW 24, 20" wheels, 4" <b>PU</b>	9.25 kg	Frame, side parts, rear wheels, cambers, leg support, back- and seat cover
Single weights	Rear wheels 1.2 - 2 kg	Dependent on size and version
Tyres	Customary air tyres, Sizes 1" or 1 3/8" Or break-down-safe tyres (same measurements)	Optional: "Schwalbe <i>Marathon Plus</i> " (air tyres 1" with break-down-safe padding)

## 7.4 User Chronology

1. Name of user / legal agent	
Date of birth	
Street	
Postal code/ Town	
Benefactor/Health insurance company	
2. Name of user / legal agent	
Date of birth	
Street	

Postal code/ Town	
Benefactor/Health insurance company	
3. Name of user / legal agent	
Date of birth	
Street	
Postal code/ Town	
Benefactor/Health insurance company	
4. Name of user / legal agent	
Date of birth	
Street	
Postal code/ Town	
Benefactor/Health insurance company	



## 8. Warranty Form

Please fill in and, if necessary, make a copy and send in.

<h1 style="margin: 0;">Warranty</h1>																	
<p>Model</p> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	<p>Date of delivery</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> </tr> </table>																
<p>Serial number</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> </tr> </table>											<p>SW/SD/BH</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> <td style="width: 20px; height: 40px;"></td> </tr> </table>						
<p>Company stamp</p> <div style="border: 1px solid black; height: 80px; width: 100%;"></div>																	



Dieses Produkt ist konform mit den EG-Richtlinien 93/42/EWG für Medizinprodukte.

Unsere Mitarbeiter haben für Sie diesen Rollstuhl mit größter Sorgfalt montiert und geprüft! Dafür bürgen sie mit ihrer Unterschrift.

.....  
Monteur:

Hier bitte das Duplikat des Typenschildes einkleben.



.....  
Datum      Unterschrift

.....  
Prüfer:

.....  
Datum      Unterschrift

## 9. Manufacturer

For more information visit [www.sorgrollstuhltechnik.de](http://www.sorgrollstuhltechnik.de)

Your specialised trader



Company stamp



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Technical alterations and misprints excluded