

# Jump alpha



## Service Record

**!** In the following all individual adjustments of the wheelchair are described. **These adjustments require tools and specialised knowledge. Please leave the adjustments to a qualified rehab consultant.** **!**

## Imprint

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## Technical status

Technical changes and misprints reserved. The pictures in this Instructions for use can differ from the actual equipment components. However, a corresponding conduction is possible.

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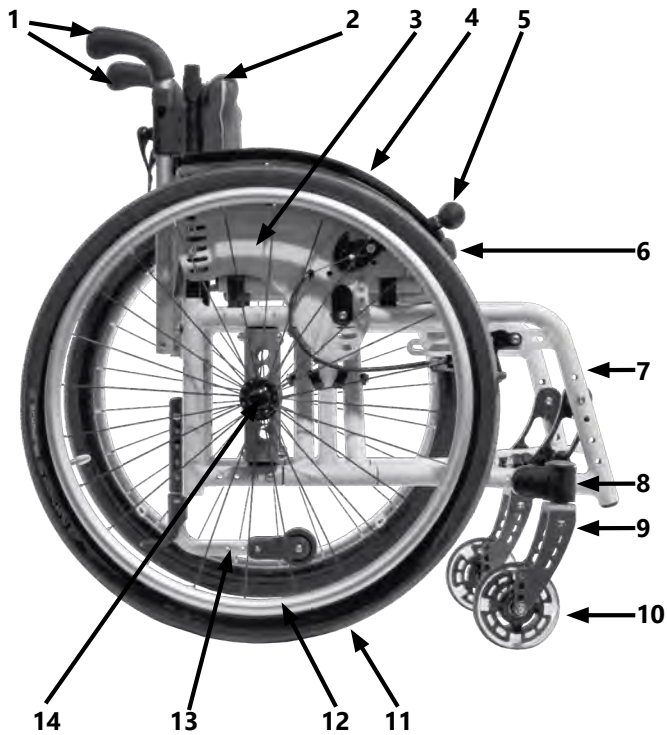
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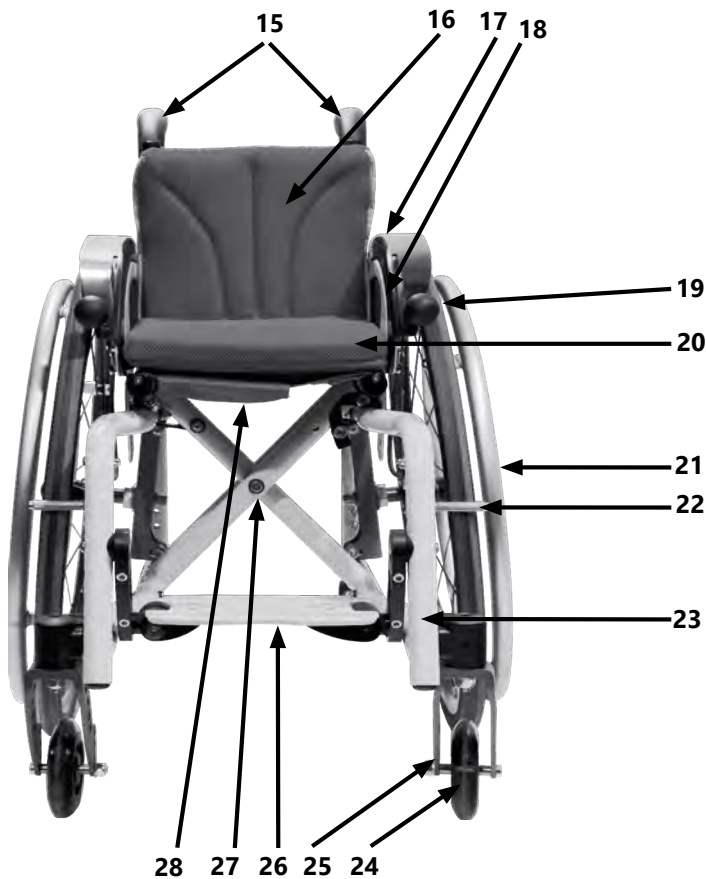
<b>1 Wheelchair overview</b>	<b>5</b>	3.10.2 Widen	29
		3.10.3 Extend	29
<b>2 General information</b>	<b>6</b>	<b>4 Repairs/maintenance/reinstatement</b>	<b>31</b>
2.1 General indications	6	4.1 Repairs	31
2.2 Documentation indications	6	4.2 Spare parts	31
2.3 Required torques and tools	6	4.3 Maintenance	31
2.4 Explanation of symbols	7	4.4 Disinfection	31
2.5 General safety instructions	8	4.5 Storage	31
		4.6 Lifespan	32
<b>3 Assembly Groups</b>	<b>9</b>	4.7 Reinstatement	32
3.1 Assembly group wheels	9	4.8 Disposal	32
3.1.1 Centre of gravity	9	4.9 Maintenance/Inspection	32
3.1.2 Seat height in front	9		
3.1.3 Seat height in back, seat slant	10	<b>5 Technical specifications</b>	<b>34</b>
3.1.4 Steering head slant	10	5.1 Data and measurements	34
3.1.5 Replacing/ displacing the caster adapters and casters	11	5.2 Meaning of labels	35
3.1.6 Camber	11	5.3 Declaration of conformity	35
3.1.7 Rear wheel track balance	12		
3.1.8 Activation of track fixation	14		
<b>3.2 Assembly group seat</b>	<b>15</b>		
3.2.1 Changing the seat cover	15		
3.2.2 Extending the seat depth with a seat cover	15		
3.2.3 Retightening the seat cover	15		
3.2.4 Changing the seat depth of the SitzFix	15		
3.2.5 Changing the seat width	16		
<b>3.3 Assembly group leg support</b>	<b>17</b>		
3.3.1 General Information Leg supports	17		
3.3.2 Leg support outer attachment, folds up sideways	17		
3.3.3 Leg support mounting outside	18		
3.3.4 Divided foot plate, folds up sideways	18		
<b>3.4 Assembly group side guards</b>	<b>19</b>		
3.4.1 Setting side guards	19		
3.4.2 Skirt guard on the side guard	19		
3.4.3 Armrest on the side guard	20		
<b>3.5 Assembly group brake</b>	<b>21</b>		
3.5.1 General information brake	21		
3.5.2 Standard wheel lock	21		
3.5.3 Cable brake	22		
3.5.4 Drum brake	22		
<b>3.6 Assembly group anti-tipper</b>	<b>23</b>		
3.6.1 Height setting	23		
3.6.2 Length setting	23		
<b>3.7 Assembly Group tipping lever</b>	<b>24</b>		
3.7.1 Mounting	24		
<b>3.8 Assembly Group back</b>	<b>25</b>		
3.8.1 Adjustable back cover	25		
3.8.2 Firm curved back plate	25		
3.8.3 Adjusting the width of the stabilizer bar when converting the back system	25		
3.8.4 Setting the back angle	26		
3.8.5 Extension on the standard backs	26		
3.8.6 Extension on backs with angle adjustment or setting	26		
<b>3.9 Assembly Group Truss Pads</b>	<b>27</b>		
3.9.1 Classification	27		
3.9.2 Vertical setting	27		
3.9.3 Horizontal setting	27		
3.9.4 Fine adjustment of the truss pad holder	28		
3.9.5 Adjusting to the user	28		
<b>3.10 Assembly Outdoor Front End</b>	<b>29</b>		
3.10.1 General Information	29		



# 1 Wheelchair overview



- 1 push handle
- 2 back
- 3 side guard
- 4 skirt guard
- 5 wheel lock
- 6 seat
- 7 frame
- 8 caster housing
- 9 caster fork
- 10 caster
- 11 rear wheel
- 12 handrim
- 13 anti-tipper
- 14 quick-release axle



- 15 push handle
- 16 back
- 17 skirt guards
- 18 side guards
- 19 brake lever
- 20 seat cushion
- 21 handrim
- 22 brake bolt
- 23 frame
- 24 caster
- 25 caster fork
- 26 continuous leg support
- 27 crossbrace
- 28 utensils bag

### 2.1 General indications

In the following all individual settings, adjustments and repairs as well as the yearly inspection of the wheelchair are described. These adjustments require tools and specialised knowledge. Please leave the adjustments to a qualified rehab consultant.

Should questions or suggestions come up then please contact your medical supply store or our team (+49 7254 9279-0).

### 2.2 Documentation indications

Please note:

- Information about before sale can be found in the instructions for use
- Information for the user can be found in the instructions for use
- For maintenance instructions see: Chapter 4 (Repair & Maintenance)

### 2.3 Required torques and tools

*For the following screws needed torque:*

- M5: 5 Nm;
- M6: 7 Nm;
- M6 (axle plate) 10 Nm
- M8: 20 Nm;
- M10 (nut): 25 Nm; (caster)
- quick release axle fitting 40 Nm

*Needed tools:*

- torque wrench (5-50 Nm)
- open end wrench
- flex ratchet handle with socket wrench inserts
- hexagon screw driver
- Phillips screw driver
- flat head screw driver
- plastic mallet
- side cutter
- threadlocker (fluid)
- bicycle inner tube repair kit
- work bench/jaw vise with rubber pads

## 2 General information

### 2.4 Explanation of symbols



**ATTENTION!** Warnings for personal Safety aspects that are of the utmost importance.



**CORRECT** safety adjustment/ use



**WRONG** adjustment/ use



**NOT ALLOWED**



**References** to additional/continuing reading.



important detail



correct or proper use/setting



incorrect or improper use/setting

**(A); (B)**

reference from text to detail

#### Use



push/ pull/ insert / move/



Push in specific direction



Setting or adjusting the angle



open/ close



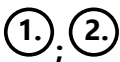
Turn clockwise



Turn counter-clockwise



steps to be done at the same time



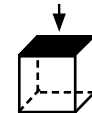
steps to be done after each other



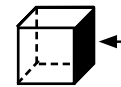
steps to be done on both sides



point of view



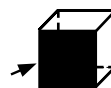
view from top



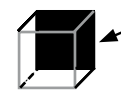
view from the side



view from the bottom



view from the front



view from the back



fasten parts





remove parts


### 2.5 General safety instructions

 Before each use be sure to check:


- frame, back tubes, attachments and accessories for visible damage, bends, cracks or missing/loose screws,
- wheels/quick release axles for firm fit,
- sufficient tire pressure, tire tread,
- functionality of the brakes,
- firm fit of the angle adjustment elements/ eccentric clamps,
- firm fit of the seat plate/ the back/ the foot plate,
- functionality of the anti-tipper/ seat and back straps,
- if all previously disassembled parts are re-inserted or firmly locked.


 There is a risk of injuries (e. g. such as bruising) on all rotating or folding parts, including adjustments, repairs and transport.

 All wheelchair parts are to be handled with care. Do not throw or drop removable parts.


 Before repairs or adjustments are made, clean/disinfect the wheelchair and secure it from tipping over and/or falling down.

 Only use original spare parts.


 Safety nuts may only be used once. Loosened safety nuts must be replaced by new ones.


 Only the regular maintenance of all safety-relevant parts on the wheelchair by a qualified rehab workshop protects against damage and maintains our manufacturer's warranty.

#### *Lifespan*

 Use beyond the specified lifespan increases the residual risks and should only be carried out after careful, qualified consideration by the operator. If the useful life is reached, the user or a responsible person should contact the specialist dealer. There you can be informed about the possibility of reprocessing the product.

#### *Combination with products from other manufacturers*

 The wheelchair may only be combined with the electrical auxiliary drives approved by the manufacturer. The responsibility of restrictions or adjustments as well as the attachment itself lies with the supplier of the additional system or the specialized retailer. Please ask about the conditions with the manufacturer of the auxiliary drives.

 In combination of wheelchair and electric auxiliary drive, certain strains occur that can lead to damage to the wheelchair. Slowly approach obstacles and carefully overcome them so that little force is applied to the casters, rear wheels and the wheelchair as a whole.



# 3.1 Assembly group wheels

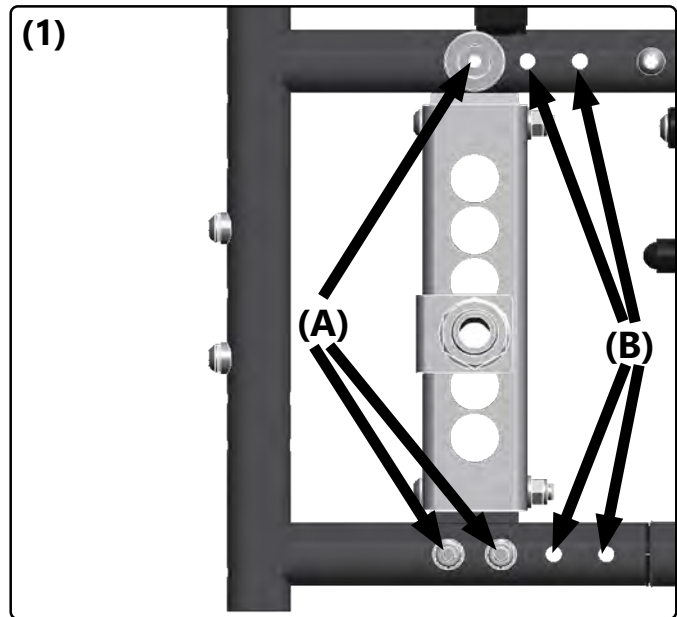
## 3.1.1 Centre of gravity

- (1) To set the centre of gravity
- remove both rear wheels,
  - remove all screws **(A)**
  - displace the perforated plate in the alternative holes **(B)**.
  - Displacement must occur parallel on both sides.
  - Replace screws and tighten them.

After every change made on the rear wheels, the wheel lock must be newly adjusted.

Slowly go to the maximum and from the user (!) wanted point of wobbliness.

The more you move the casters back, the higher the risk that the wheelchair will tip forward when getting in or out.



The more you move the rear wheels with the perforated plate forward, the higher the risk that the wheelchair could tip backward.

Please make sure, that with the seat slant the grip point and grip direction are not affected by a too high placement of the rear wheels.

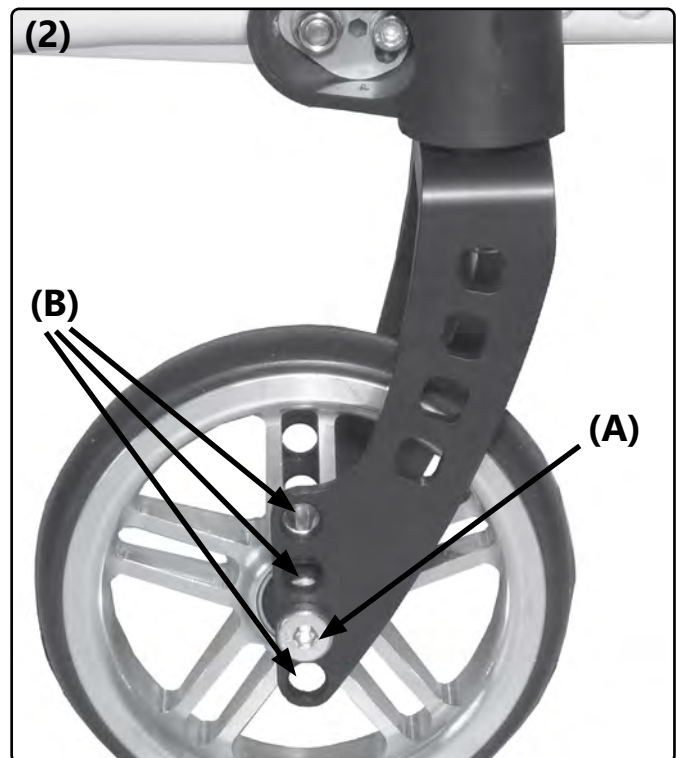
## 3.1.2 Seat height in front

- (2) The seat height is set by the position of the casters in the caster fork.
- remove the connection caster/caster fork **(A)** completely,
  - mount the casters on both sides in the wanted holes **(B)**,
  - retighten all screws.

After every change you must check the vertical steering head slant and, if necessary correct it (see chapter steering head slant).

In the mounting parts of the casters, hair, lint, dirt, etc. can collect, whereby the casters become hard to use. Remove the casters in short intervals and clean the forks, axles and the husks thoroughly.

Precede the same with synthetic forks.



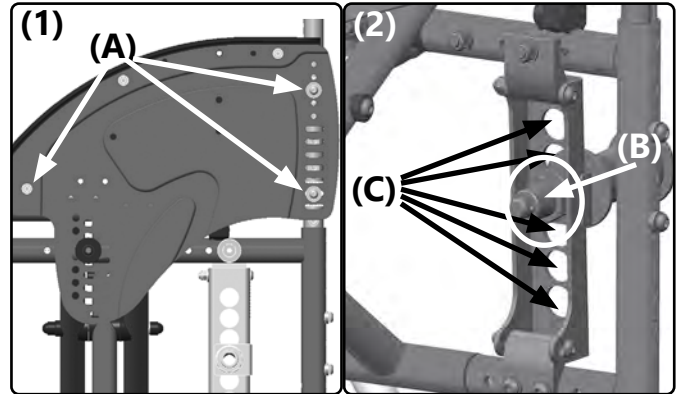
## 3.1 Assembly group wheels

### 3.1.3 Seat height in back, seat slant

After each change made on the rear wheels the functionality of the wheel lock must be checked and the casters must be newly adjusted.

Generally, the seat height in back is about 2-3 cm lower as in front, for a safe and comfortable seat position with a good distribution of the seat pressure and to avoid a "sliding out". However, other settings in individual cases can also be useful.

- **(1)** Remove the rear wheels,
- remove the side guards/skirt guards with the screws **(A)** (easily remove the desk side guard)
- **(2)** remove the quick-release axle fitting including all washers in the alternative holes **(C)**
- and retighten all screws. (tightening torque nuts M18 fitting 35Nm).
- Mount the side guards and place the rear wheels back in the quick-release axle.



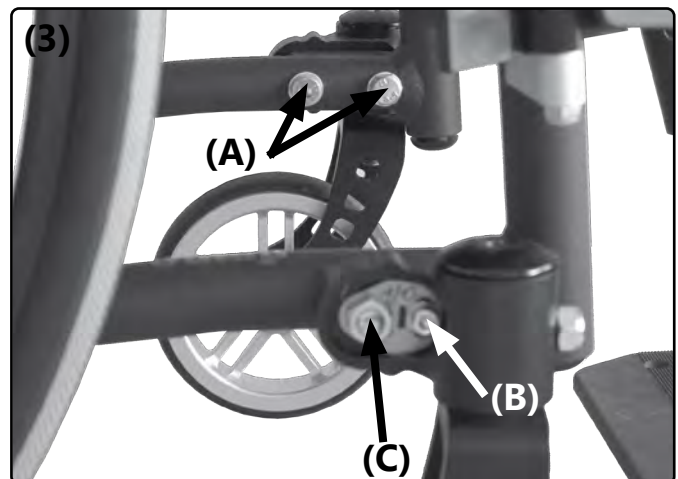
The fittings must stick out of the perforated plate at the same length on both sides. The fittings can only stick out so that the side distance of the tires to the side guard is as low as possible, however a min. of 10mm.

### 3.1.4 Steering head slant

After every change on the rear wheel, the steering head slant must be newly adjusted.

To adjust the caster adapter:

- **(3)** remove all screws **(A)** on both (!) sides,
- remove both screws **(B)**.
- By tuning the adjust washer **(C)** (with a flat head screw driver) place the adapter in a vertical position (using an angle).
- Retighten all screws; screws **(A)** with 9 Nm, screw **(B)** with 7 Nm.

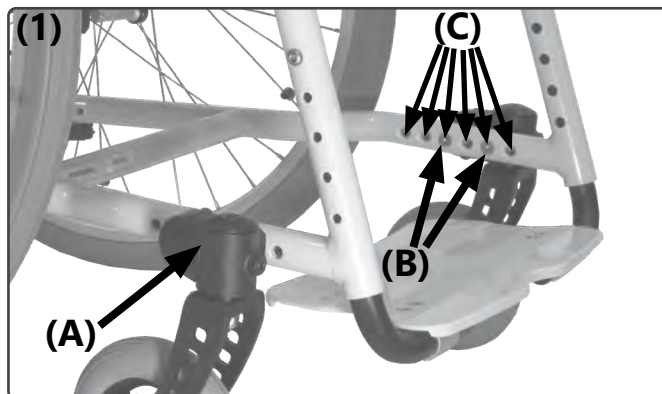


A falsely set steering head slant can lead to the casters shaking back and forth and can lead to hindering curve rides (from casters).

## 3.1 Assembly group wheels

### 3.1.5 Replacing/ displacing the caster adapters and casters

- (1) Remove the caps (A) on both sides,
- remove all screws (B) on both sides
- and remove also the distance pieces, if necessary.
- Replace the caster adapters with new ones and/or displace them in the alternative holes (C).
- Replace all screws (if necessary also the distance



### 3.1.6 Camber

Through the camber you influence:

- the side tilt stability,
- the shoulder rear wheel position and
- the track width of the wheelchair.

(2) To avoid the so called "eraser effect" we generally mount the fitting track balance ex-works (A). With a change of the camber afterwards, the track balance adapter (A) must be replaced by one that fits (spare part).

With a camber of 8° a distance block to the wheelbase extension is necessary (spare part).

Adjusting the camber

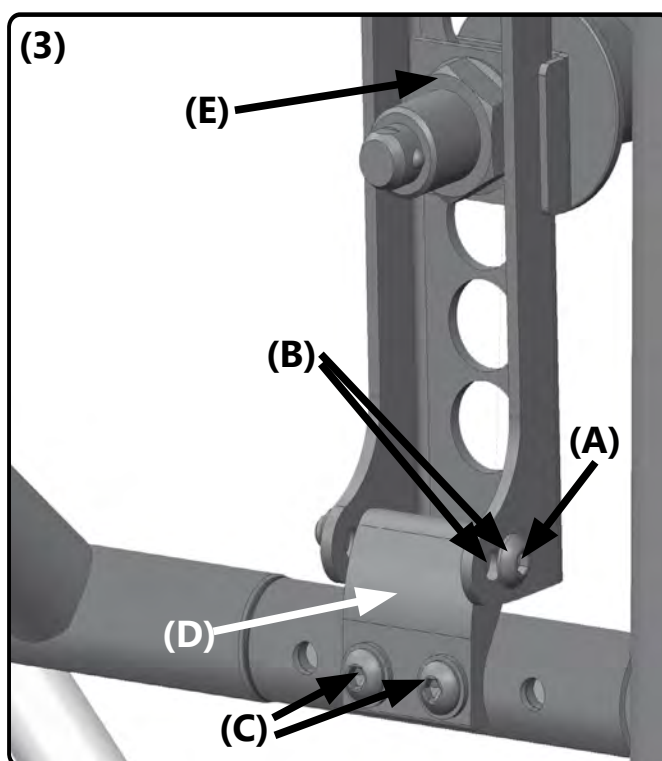
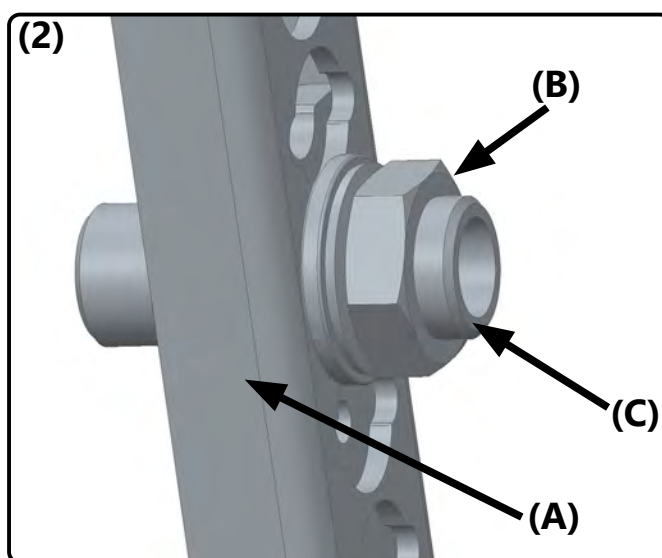
- (3) Remove the rear wheels,
- remove screws (A) and move them in the alternative holes (B),
- retighten the screws.

For a camber of 8°:

- (3+1 next page) remove the screws (A),
- remove the screws (C),
- move the perforated plate holder (D) by turning it 180° on the outer part of the frame tube,
- replace the screws (C) and tighten them,
- replace the perforated plate with the screws (A) and tighten them.

The setting may not be possible if you wish to widen the seat, being that then you would have to turn the quick-release axle fittings too far out of the perforated plate.

Check/correct the distance of the rear wheel to the side guard and skirt guard by attaching the rear wheel.

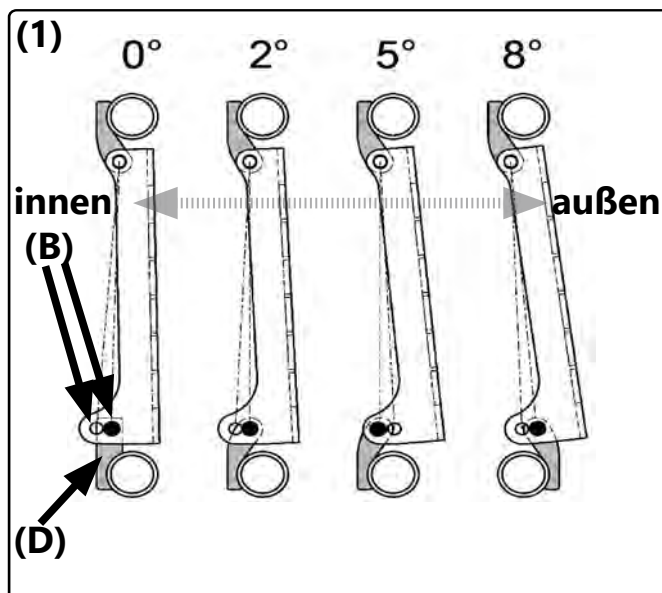


### 3.1 Assembly group wheels

The tire of the wheel must be at least 10 mm away from the side guard/skirt guard. Take notice that the distance on the left and right are the same!

(1) In order to screw on or screw off the quick-release axle fittings:

- remove the screws of the fittings (B) (the lock nut (2E) on the inner surface as well),
- turn the whole fitting (C) in the wanted position and
- retighten the screws (tightening torque nuts M18 fitting 35 Nm).



You must check the functionality of the knee lever brake and if necessary reset them.

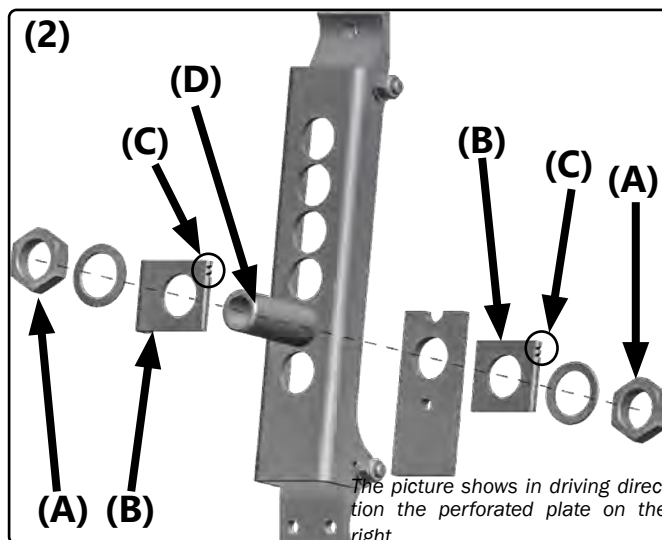
#### 3.1.7 Rear wheel track balance

Version till 02/2017

If you have to change the camber and/or the seat slant you must, in order to avoid the so called "eraser effect", mount appropriate wedge plates for the track balance.

To change/set the wedge plate:

- (1) remove the screws (A) of the quick-release axle fittings (D) (also on the inside),
- apply the needed wedge plate/s (B),
- the mounting grooves (C) must point forward in driving direction,
- replace all other washers
- and retighten the screws (A) of the quick-release axle fittings (D) (also on the inside) (turning point 35 Nm).



Use the following chart the help you:

camber	without seat slant	normal seat slant (< 5°)*	strong seat slant (> 5°)*
2°	washer 0°	washer 0°	wedge plate 0,5°
4°-8°	washer 0°	wedge plate 0,5°	wedge plate 1°
11°	washer 0°	wedge plate 1°	wedge plate 1°**

\*\*If necessary, apply 2 sets of plates (2 x inner plate mounted on the inside, 1x outer plate+ 1x inner plate mounted on the outside)

You must check the functionality of the knee lever brake and if necessary reset it.

# 3.1 Assembly group wheels

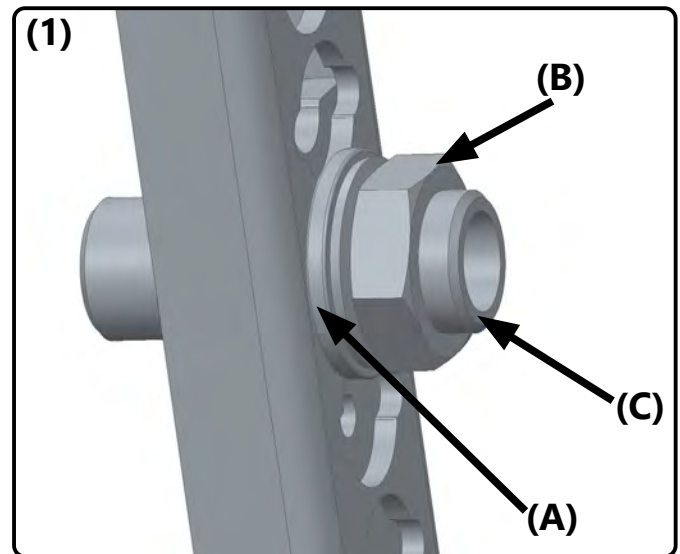
Version from 02/2017

The wheelchair is delivered with the appropriate toe-in, depending on the wheel camber adjustment and attachment of the steering and pushing aid. When changing the camber or retrofitting the steering or pushing aid, it may be necessary that the toe must be changed.

**(1)** In order to avoid the so-called "eraser effect", we generally assemble the matching track compensation **(A)** at the factory. If the camber is subsequently changed, it may be necessary to replace the track compensation adapter **(A)** with a suitable one (spare part).

To change toe-in:

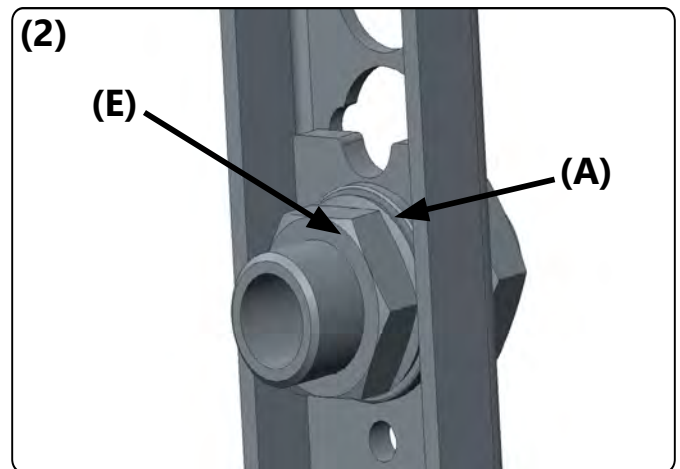
- Remove rear wheels,
- and remove screw connection **(B + C)**.
- Depending on the mounting variant and camber, please observe the instructions on the following pages.
- After changing the toe settings:
- replace the screws **(B + C)** and tighten the screws **(B)**.
- Check / correct the distance between the rear wheel and the side part or clothing protection by attaching the rear wheel.



The tires of the wheel must be at least 10 mm away from the side panel or clothing guard. Pay attention to the same distance left and right!

**(1)** To insert or remove the quick-release axle fitting:

- loosen the screw connection **(B)** of the fitting (also the lock nut **(2E)** on the inside),
- Turn the complete fitting **(C)** to the desired position and
- Tighten all screw connections again (tightening torque of nuts M18 fitting 35 Nm).



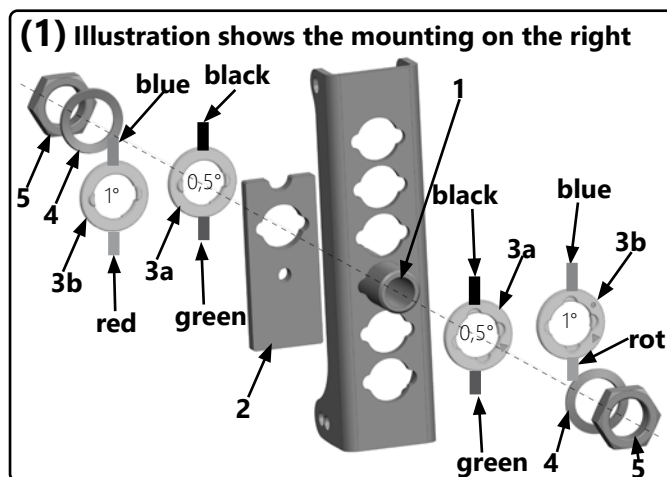
Be sure to check the functionality of the knee lever brake and adjust if necessary.

Please note the colored discs for the correct adjustment of the camber.

# 3.1 Assembly group wheels

(1+2) Assembly of track compensation:

pos.-nr.	count	description
1	1	Screwed M18*1, d=12
2	1	reinforcement axle plate
3a	2	fall-in-track disc 0,5°
3b	2	fall-in-track disc 1,0°
4	2	locking washer S18
5	2	nut M18x1 SW24



For Vector and Jump beta 8 ° camber, as well as Jump alpha 5 ° and 8 ° camber, a spacer block for wheelbase extension is required (spare part). Here, the toe is already integrated in the broadening.

Which disc has to be used at which setting:

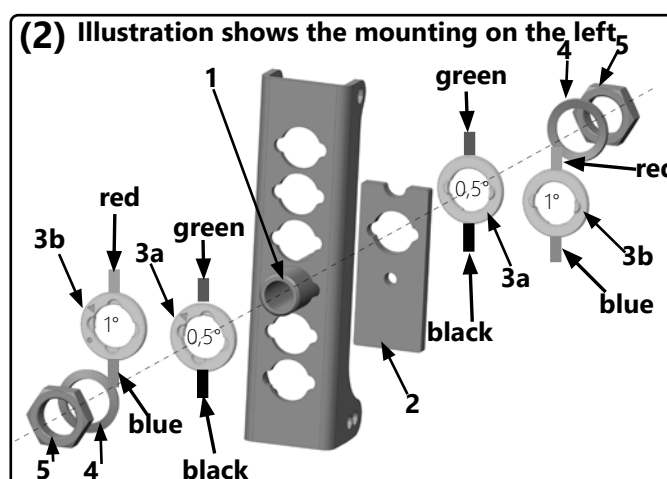
Camber	Without seat tilt
0°	without track disc
2°	without track disc
4-8°	without track disc

Camber	Normal seat tilt (ca. 5°)
0°	without track disc
2°	without track disc
4-8°	track disc with 0,5°

Camber	Strong seat tilt
0°	without track disc
2°	track disc with 0,5°
4-8°	track disc with 1°

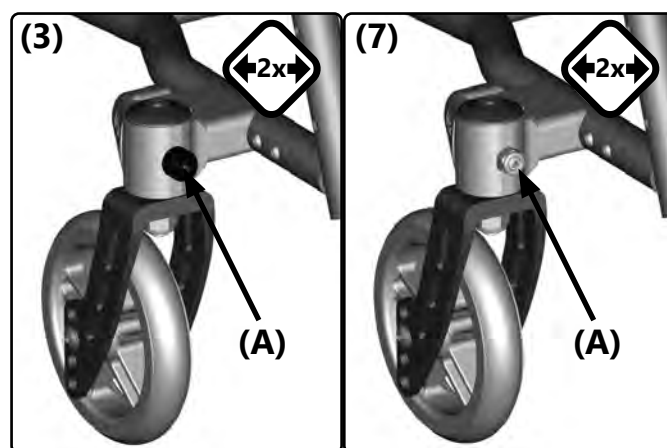


For the steering and pushing aid, at least the 0.5 ° track disc must always be mounted (except for a camber of 0 ° in which no track disc is used).

## 3.1.8 Activation of track fixation

With the help of the track fixation, straight-ahead driving can be supported. The pressure spring keeps the steering axle in a straight line. When you countersteer, this support is released again. To set this particular support, proceed as follows:

- Loosen the protective cap (3A),
- Use an M8 Allen key to tighten the spring-loaded pressure piece (7A) on both sides until you can feel the ball compressing the wheel in a straight-ahead direction.

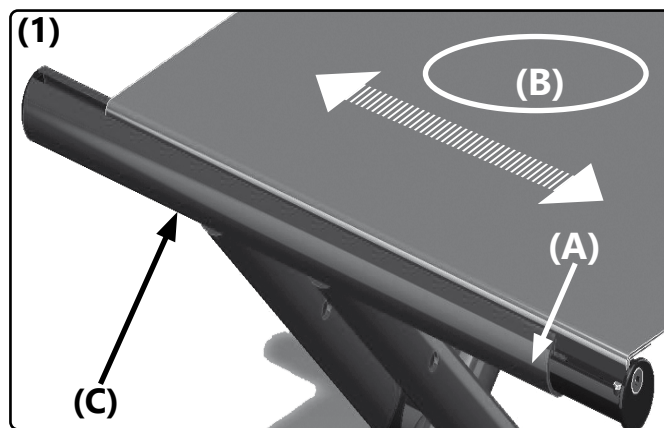


Do not turn the pressure spring piece onto the steering axle with the threaded end of the pressure ball. Otherwise the function will be lost.

## 3.2 Assembly group seat

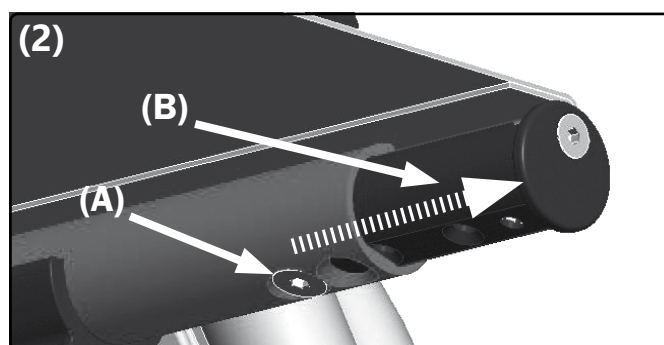
### 3.2.1 Changing the seat cover

(1) To change the seat cover, remove both screws (A) on the bottom of the seat tube. Pull the seat cover (B) forward, out of the tube (C). Thread the new seat cover on to the cover rods. Guide the seat cover back in to the seat tube (C). Finally, screw the screws (A) back on. With an available seat extension, proceed the same way.



### 3.2.2 Extending the seat depth with a seat cover

(2) Remove the screws (A) of the seat extension parts (B) on both sides and pull them together with the seat cover in the wanted position. Screw the screws on tightly.

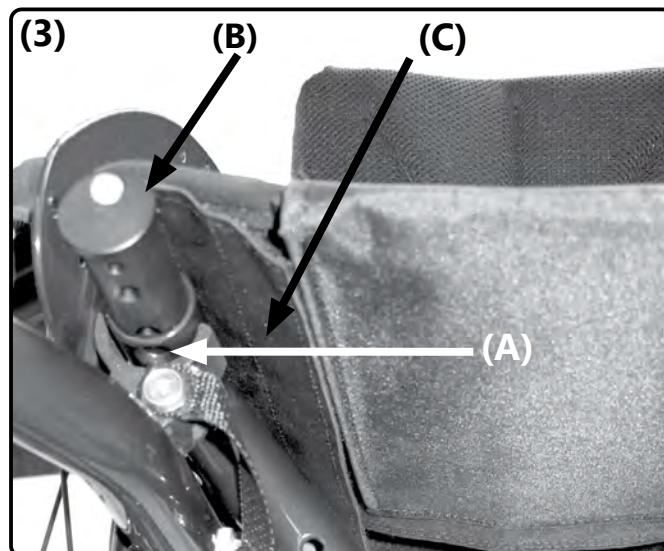


### 3.2.3 Retightening the seat cover

(3) Remove the screws (A) on both sides and pull the seat cover completely out of the slots of the seat tubes (if necessary, together with the extension pieces (B)).

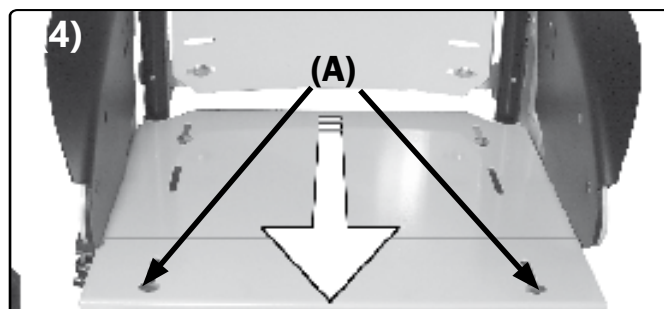
Place the Velcro connections (C) in the new position, guide the cover back in the slots of the seat tubes (B) and screw it back on at the bottom (A).

The seat depth of a SeatFix can only be reached by the optional seat extension.



### 3.2.4 Changing the seat depth of the SitzFix

(4) Loosen the screw connections (A) under the seat, pull the extension in the wanted position and retighten the screw connections.



## 3.2 Assembly group seat

### 3.2.5 Changing the seat width


The seat width of a Jump can be changed 1 cm on each side with spacers between frame and side guards. The parts required for this are sent in a pouch in the utensil bag under the seat cover (6 round spacers plus the necessary screws).

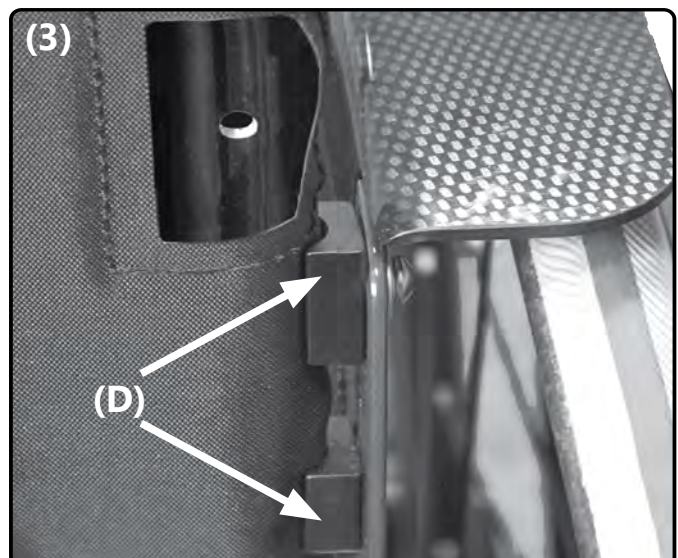
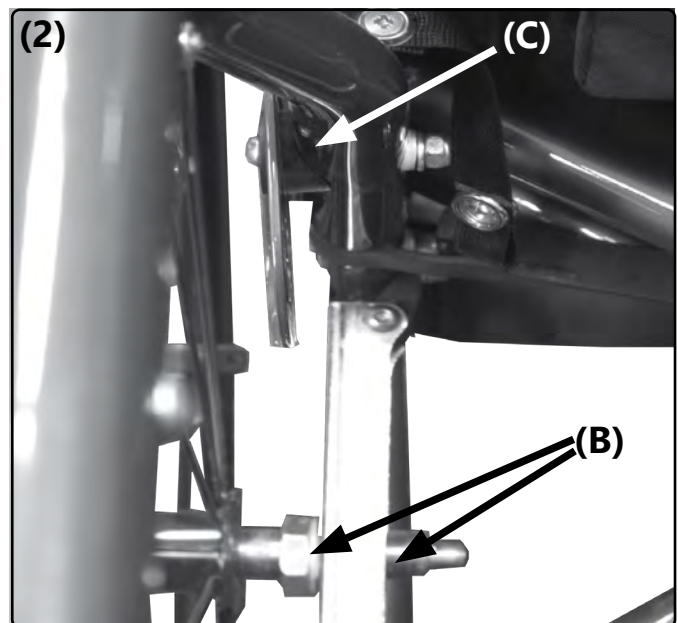
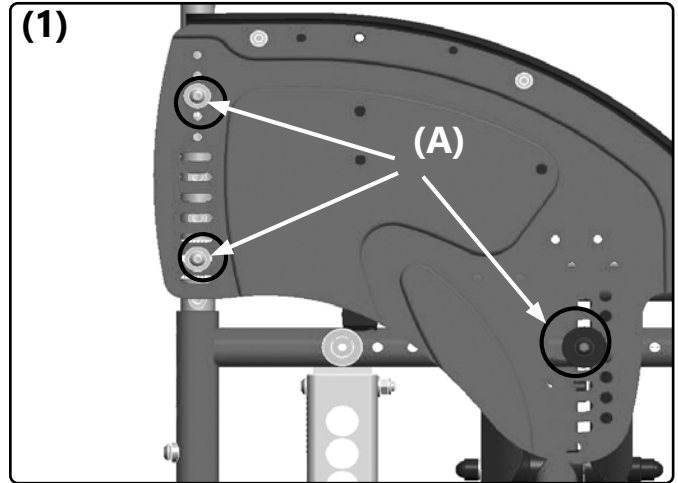
Remove the rear wheels and the cushions or SeatFix.

**(1)** Remove the side guards by removing all screws **(A)** on both sides.

**(2)** Displace both quick release axle adapters **(B)** 1 cm outward.

Place the respective included spacers on the pre-existing spacers **(2C+3D)**, exchange the pre-existing screws for the included longer ones and with them, attach the spacers and the side guards tightly to the frame tube.

 Afterwards, check the functionality of the wheel lock and if necessary, correct its position.

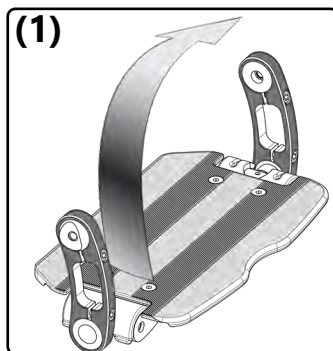




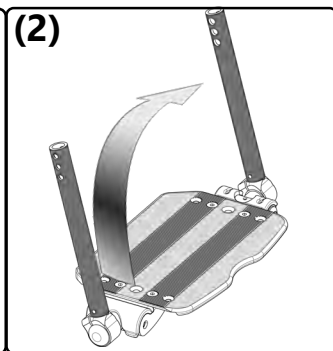
## 3.3 Assembly group leg support

### 3.3.1 General Information Leg supports

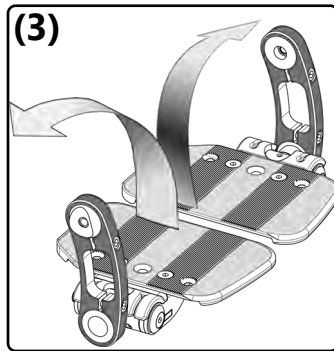
Model 1:



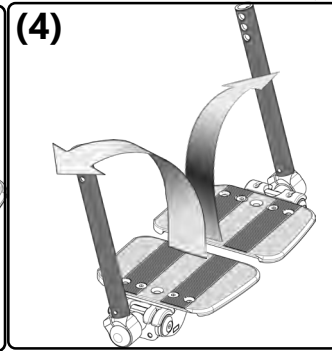
Model 2:



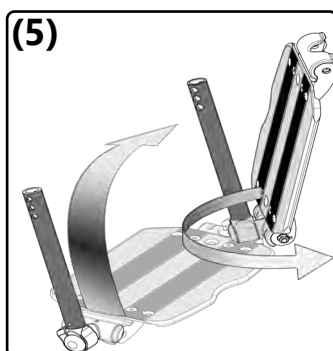
Model 3:



Model 4:



Model 5:



The leg rest is optimally adjusted when the leg is at a right angle to the foot plate and the entire thigh is up to about the width of the knee in the seat cushion / seat shape part on lies.

### 3.3.2 Leg support outer attachment, folds up sideways

Setting the lower leg length

**(6)** Remove the screws **(A)** on the outer side of the frame, including the screws and bushings **(B)** on the inner side, on both sides. Choose the new position, replace the screws and bushings and tighten them.

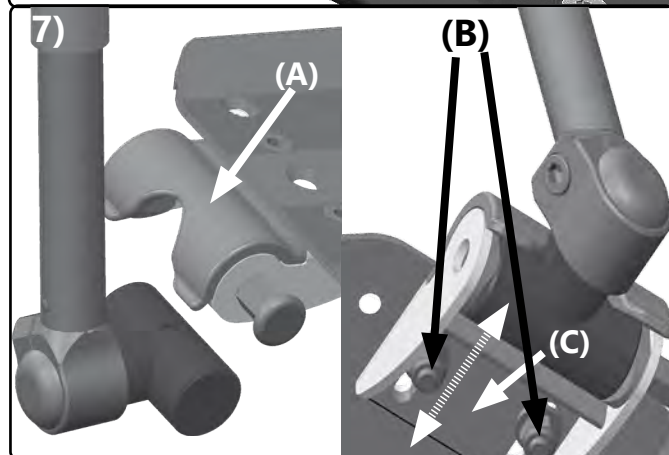
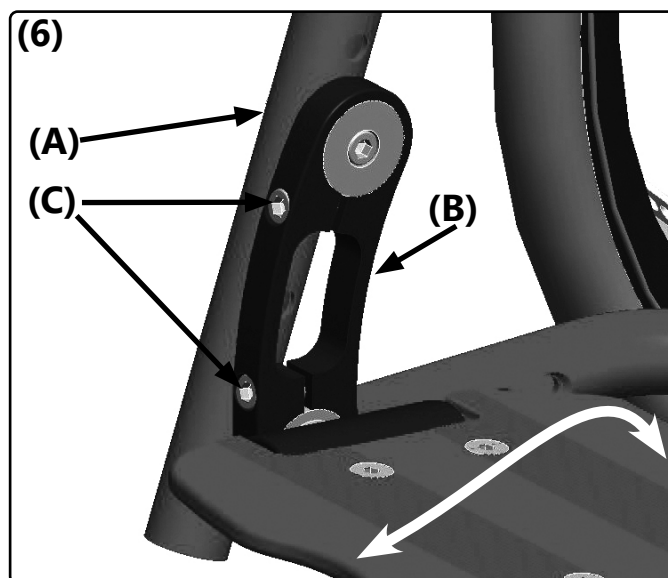
Setting the depth

**(7)** The foot plate can be attached in 3 positions. Remove all screws and nuts **(A)** on the foot plate and reposition the foot plate. Replace all screws and nuts and retighten them.

Setting the angle

**(8)** Turn the cylinder screws **(B)** in the clamp on both sides far enough until the clamp connection loosens. Set the wanted angle and retighten the screws.

The fine adjustments of the locking claw occurs the same with all continuous foot plate types.

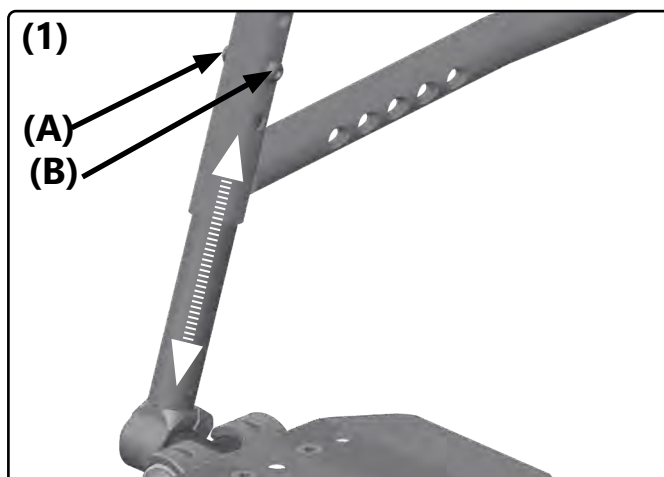


## 3.3 Assembly group leg support

### 3.3.3 Leg support mounting outside

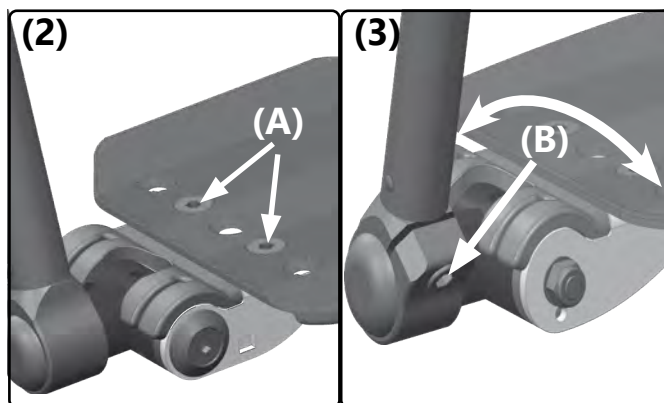
Setting the lower leg length

**(1)** Remove the screws **(A)** on the outer side of the frame, including the screws and bushings **(B)** on the inner side, on both sides. Choose the new position, replace the screws and bushings and tighten them.



Setting the depth

**(2)** The foot plate can be attached in 3 positions. Remove all screws and nuts **(A)** on the foot plate and reposition the foot plate. Replace all screws and nuts and retighten them.



Setting the angle

**(3)** Turn the cylinder screws **(B)** in the clamp on both sides far enough until the clamp connection loosens. Set the wanted angle and retighten the screws.

The fine adjustments of the locking claw occurs the same with all continuous foot plate types.

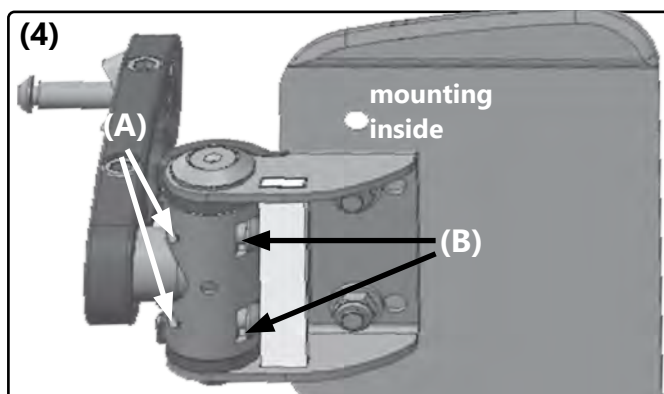
### 3.3.4 Divided foot plate, folds up sideways

The divided foot plate is not suitable for users with tone dysregulation.

The foot plates are set horizontal ex works. Should the plates tilt in the course of use, they can be adjusted as follows:

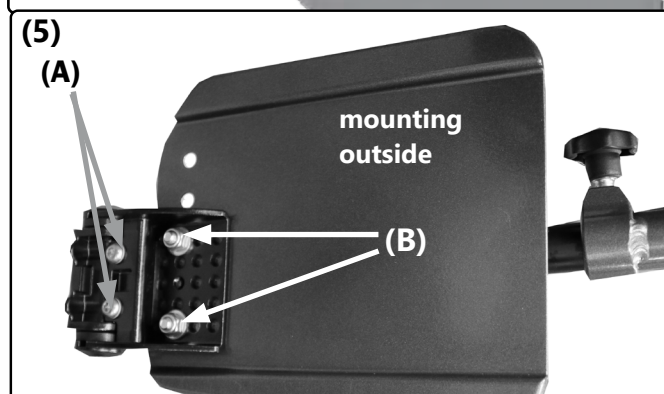
Fine adjustment of foot plate angle, inner attachment

**(4)** Loosen the locking nut **(A)**, turn the set screw **(B)** in the wanted position and retighten the locking nut **(A)**.



Fine adjustment of foot plate angle, outer attachment

**(5)** Loosen the locking nut **(A)**, turn the set screw **(B)** in the wanted position and retighten the locking nut **(A)**.

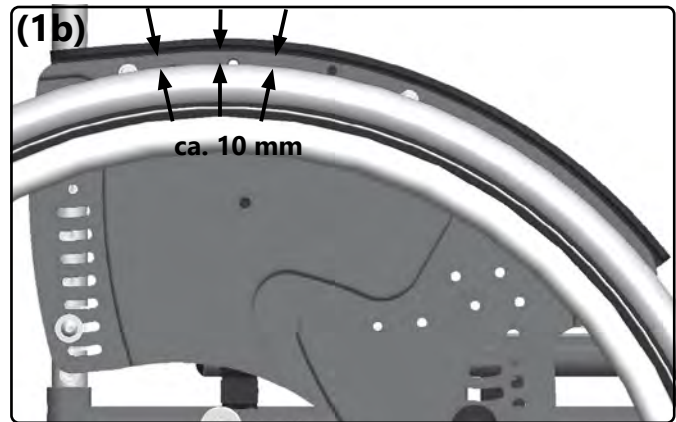
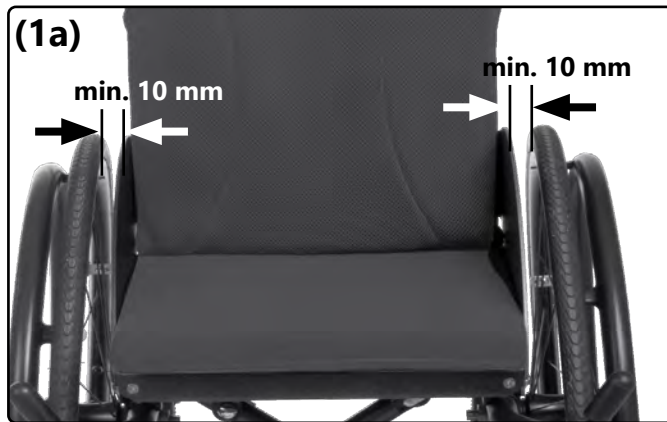


## 3.4 Assembly group side guards

### 3.4.1 Setting side guards

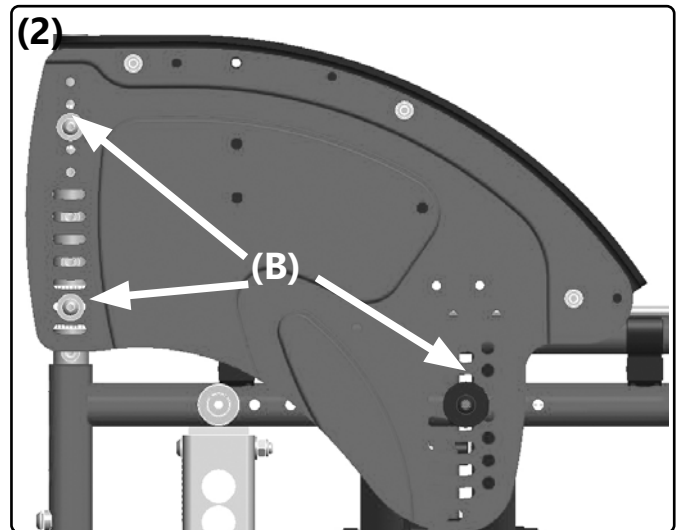
**(1a+b)** The inner space between wheel and side guard should be at least 10 mm distance so that in case of side strain the side guard does not rub on the wheel cover.

**(2)** Upward, the outline of the side guard should have a distance of at least 10 mm as long as it is parallel to the outline of the rear wheel.



High settings can become hazardous for active drivers.

**(2)** To set the height, remove the rear wheels. Remove the screw connections **(B)** in the front and back. Change the position of the side guard, replace the screws and retighten them.

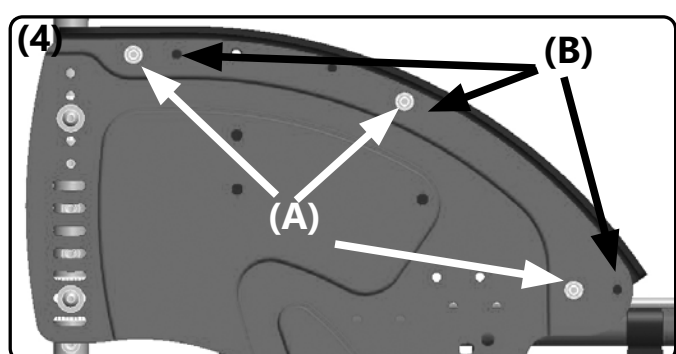
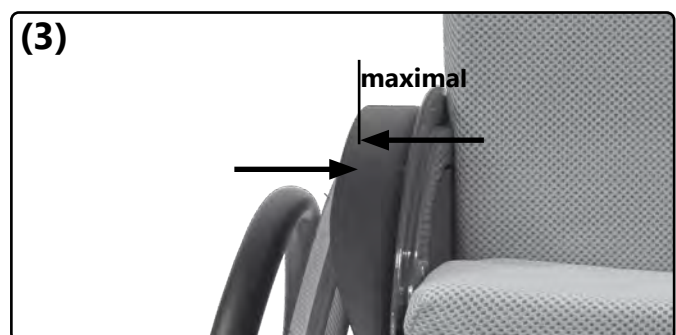


### 3.4.2 Skirt guard on the side guard

**(3)** The skirt guard is placed on the side guard and should cover the rear wheel to the outer side of the wheel.

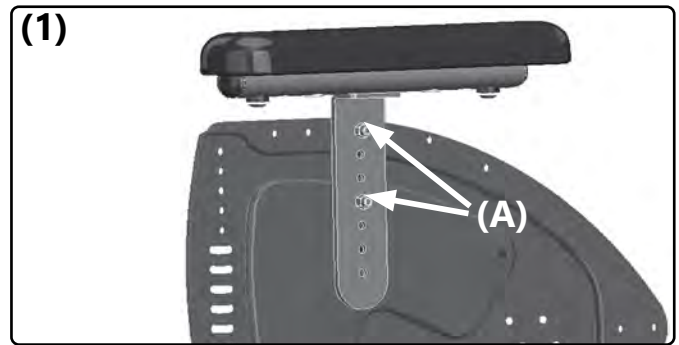
When repositioning the rear wheels in the front perforated plate, the skirt guards must be placed in the alternative holes **(A)**. Remove the screws **(B)**, move the skirt guard, replace all of the screws and retighten them.

The distance between the upper part of the wheel and skirt guard should be at least 10 mm so that the skirt guard does not push the strain on to the wheel.



### 3.4.3 Armrest on the side guard

(1) To set the arm rests remove the screws (A) on both sides, place the cushion in the holes to the wanted position, replace the screws and retighten them.



# 3.5 Assembly group brake

## 3.5.1 General information brake

**(1+2)** Every wheelchair is equipped with two wheel locks. They consist of brake pressing bolt **(A)**, brake lever **(B)** (if necessary, also with an extension) and adjustment screws **(C)**.

**⚠** Wheel locks only serve the purpose of putting the wheels in a resting position. They are not made to brake the Wheelchair while driving.

**⚠** The correct function of the brake can be impaired by:

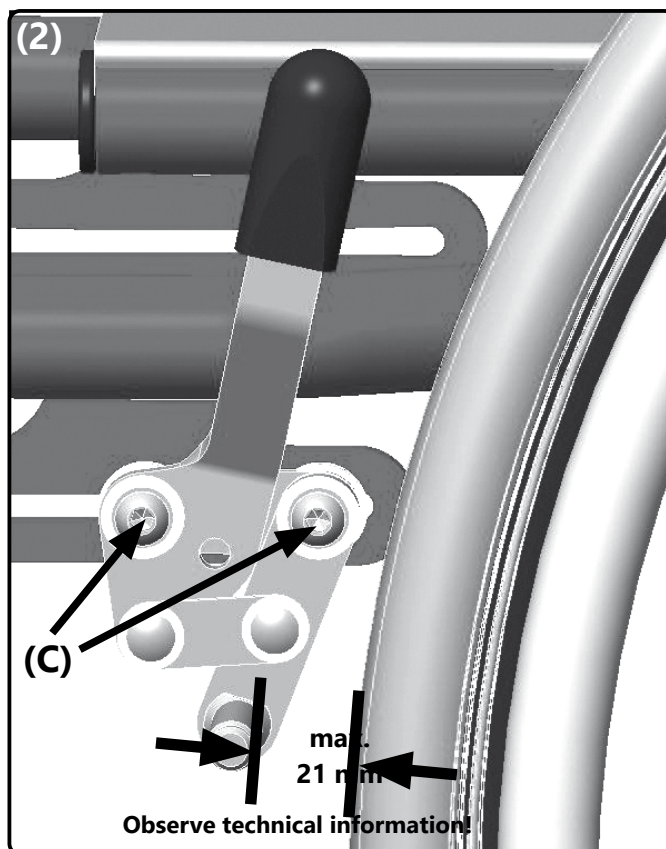
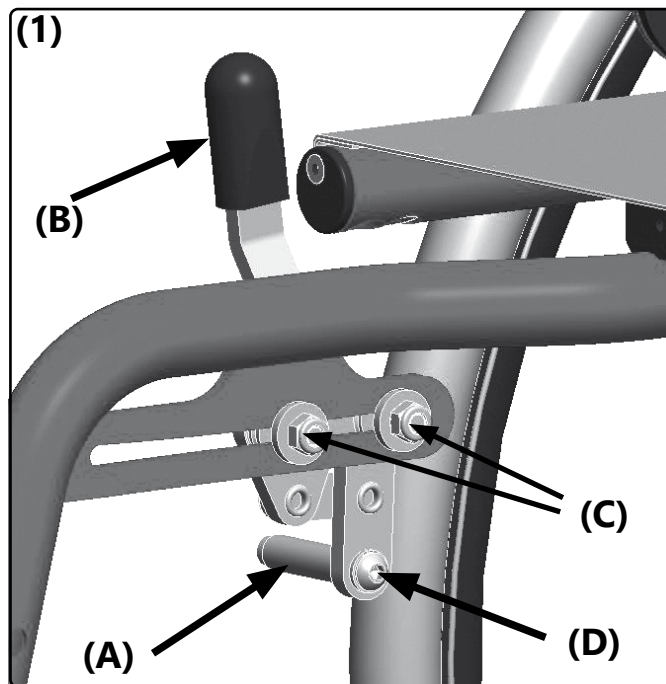
- too low air pressure,
- wetness, dirt, snow, ice, etc.
- worn tires and
- too big of a distance between brake pressing bolt and tire.

Check the fixture of the brake pressing bolt on the inner side of the wheelchair regularly **(D)**.

**⚠** After every change made on the rear wheels, reset the brakes. The wheelchair with passenger must stand securely, with drawn brake, on a ramp with a 12% descent.

When the brake is open, the maximum distance between brake pressing bolt and tire is:

standard knee lever brake	21 mm,
pull-to-lock brake	11 mm,
knee lever brake with rollback blocking	10mm,
cable brake	6 mm
(technical changes reserved).	



## 3.5.2 Standard wheel lock

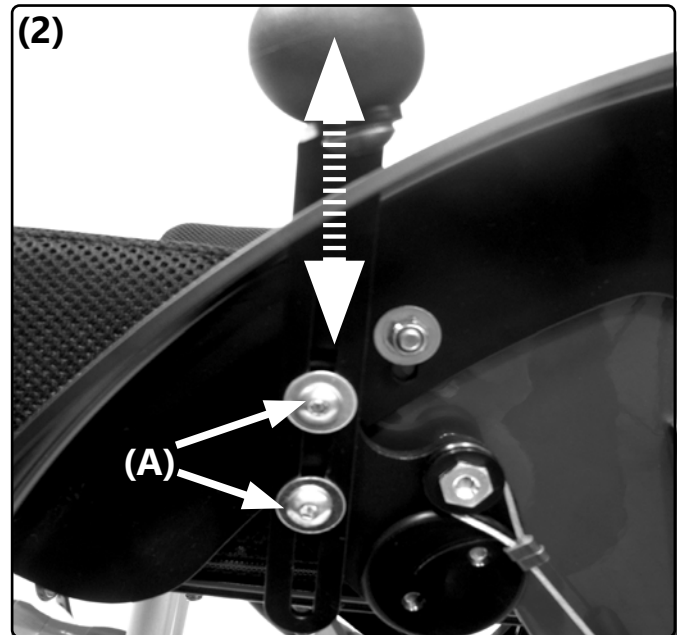
**(2)** Check the air pressure in the driving wheels first (required details on the tire cover). To adjust the brake loosen both screws **(A)** on both sides, place brake in the appropriate position and retighten the screws **(A)**.

### 3.5.3 Cable brake

The cable brake is embedded in the clothing protection side part and is be-serves via a cable. This must be regularly checked for functionality and adjusted if necessary. The adjustment on the brake cable is identical to that of the drum brake.

**(2)** To adjust the length of the brake lever, loosen the screws **(A)**, adjust it to the desired position, and retighten both screws.

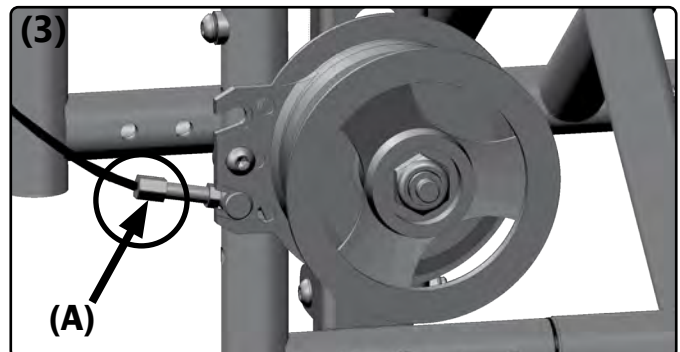
The distance between brake pressure pin and tire cover may be max. 6 mm.




### 3.5.4 Drum brake

The drum brake, unlike the wheel lock, is also suitable as a driving brake.

**(3)** The adjustment of the drum brake occurs through a screw on the bottom end of the brake cable **(A)**. By turning the screw counter clockwise the brake cable can be tightened.



 The brake shoe of the drum brake can react very sensitive to dirt and lint etc. Be sure to clean the brake pad regularly with a dry paint brush or with a blow dryer. Be sure when removing or attaching the wheels with the quick release axle that you do not break the brake pad. This would cause a significant safety risk.

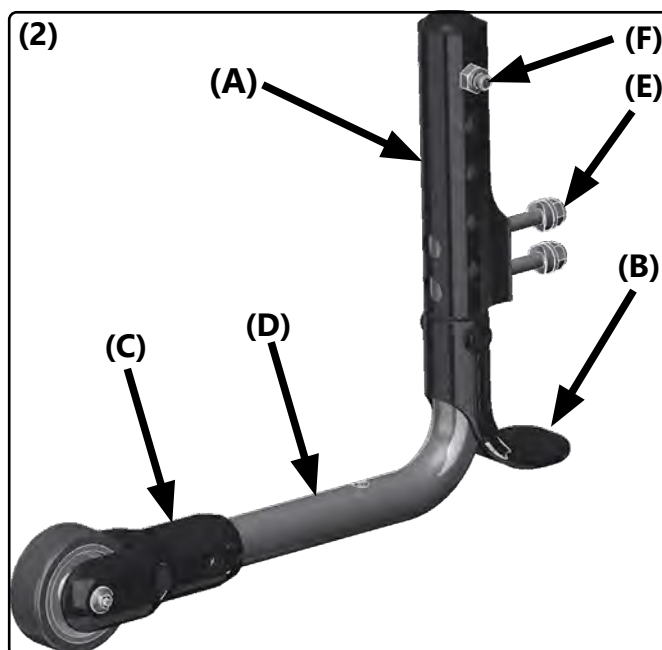
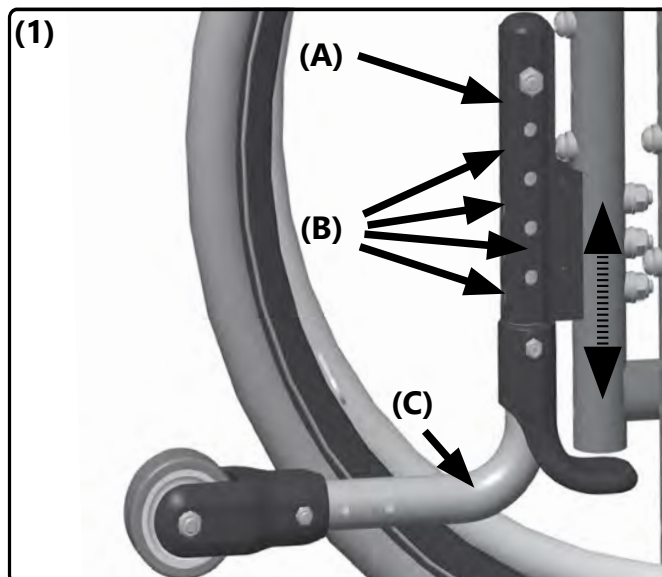
## 3.6 Assembly group anti-tipper

### 3.6.1 Height setting

- **(1)** Remove the driving wheels,
- remove the screws **(A)**,
- pull the anti-tipper lever **(C)** in the holder **(D)** down,
- displace the screw **(A)** in the wanted position **(A)**
- and retighten it.

Alternatively you can turn the holder 180°.

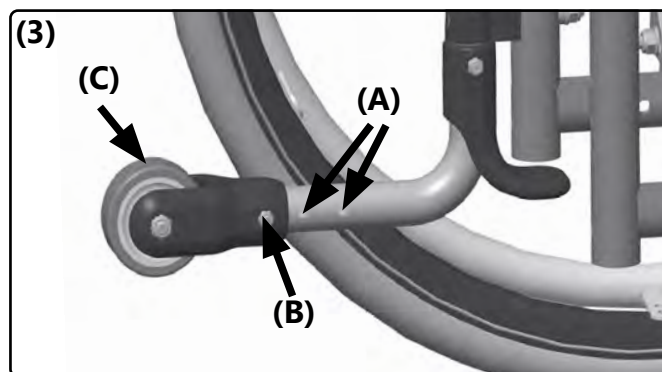
**(1)** If you want to set the anti-tipper rather low, you can turn the anti-tipper holder **(A)** 180°. For this, remove both screws **(E)** and the screw **(F)**, remove the anti-tipper lever **(D)** and turn it 180°, screw the anti-tipper holder back on to the frame tube, replace the anti-tipper lever in the holder and position it as needed with the screw **(F)** in the holes **(1B)**.



### 3.6.2 Length setting

**(3)** If the wheelchair is set very active and the activated anti-tipper sticks out too far back, then the anti-tipper bail can be shortened.

- Remove the anti-tipper wheel and holder **(C)** with the screw **(B)**,
- shorten the anti-tipper lever, with a suitable saw, to the length wanted
- and replace the anti-tipper wheel and holder.
- Place the screw **(B)** in the right hole **(A)** and tighten it.

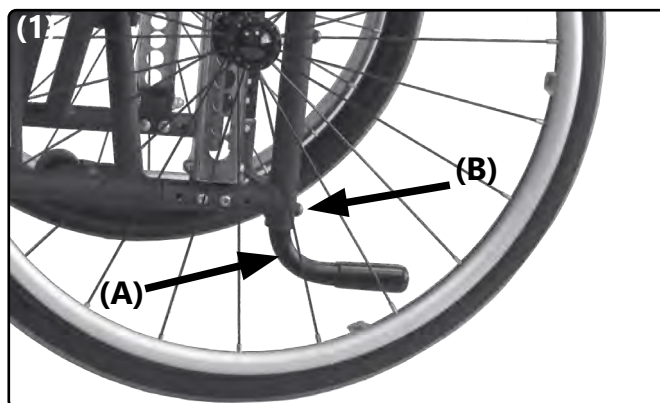


### 3.7.1 Mounting

(1) In order to add an anti-tipper:

- Remove the cap at the bottom of the frame rod,
- guide the anti tipping lever **(A)** from underneath in the frame rod and
- screw it on tightly to the frame with the screw **(B)**.

It is not possible to mount both an anti-tipper and a tipping lever on the same frame side!





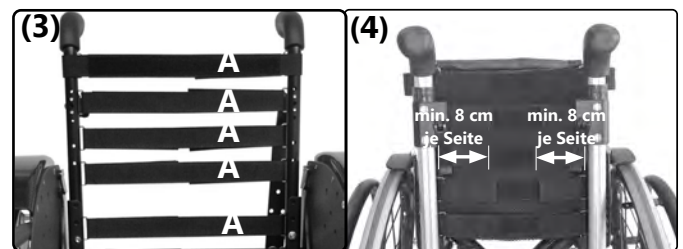
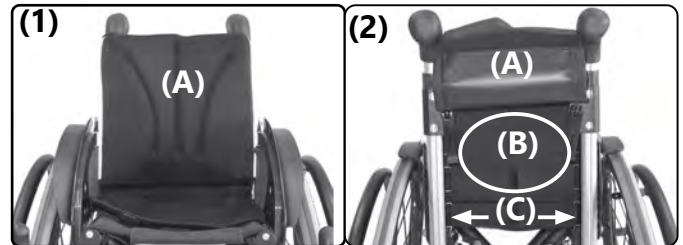
## 3.8 Assembly Group back

### 3.8.1 Adjustable back cover

The back belts can be adjusted which enables an individual molding of the back. For example, if the upper belts on the back are loosened, then a molding form of the back follows and allows more torso stabilization from the side for the wheelchair user.

Please note that the setting of the back cover influences the centre of gravity and the tilting behavior of the wheelchair.

- (1) Remove the back cushion (A),
- (2) remove the cover (A) of the Velcro (B) on the back,
- (3) loosen the Velcro attachments (A) of the belts which need to be changed, adjust new length and reconnect the Velcro,
- replace the back cover (3, A) over the Velcro and close it at the bottom edge.



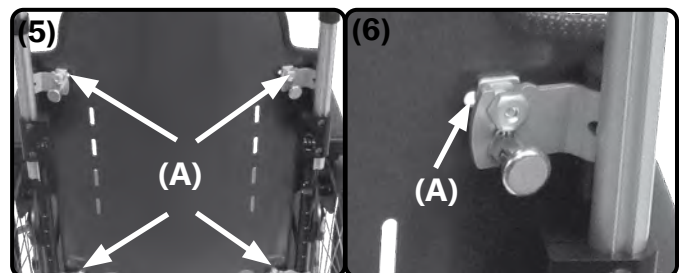
(4) The overlapping of the Velcro must be at least 8 cm per side.

When using a stabilizing rod, the dip of the back cover cannot be so big so that the back comes in contact with stabilizing rod. Danger of pressure marks!

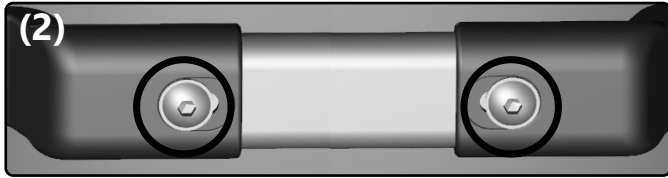
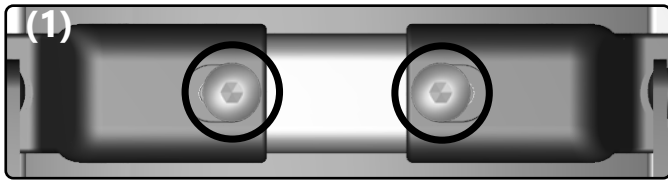
### 3.8.2 Firm curved back plate

All four guide pins must be firmly seated in the brackets.

(5 + 6) The correct and correct position of the guide pins can be adjusted via the screw connections in the 4 oblong holes (A).



### 3.8.3 Adjusting the width of the stabilizer bar when converting the back system



#### With extendable push handles:

Image (1) shows the narrow setting of the stabilizer bar. Select this setting when converting from a standard 90° back to **ADJUSTABLE** back angle.

When converting from back angle adjustable to back standard 90°, select the wide setting see image (2).

#### With standard push handles (integrated on the back tube):

Image (1) shows the narrow setting of the stabilizer bar. Select this setting when converting from back angle **ADJUSTABLE** to back standard 90°.

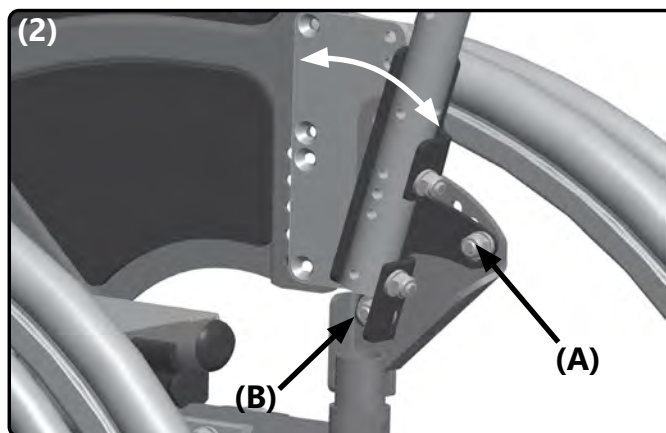
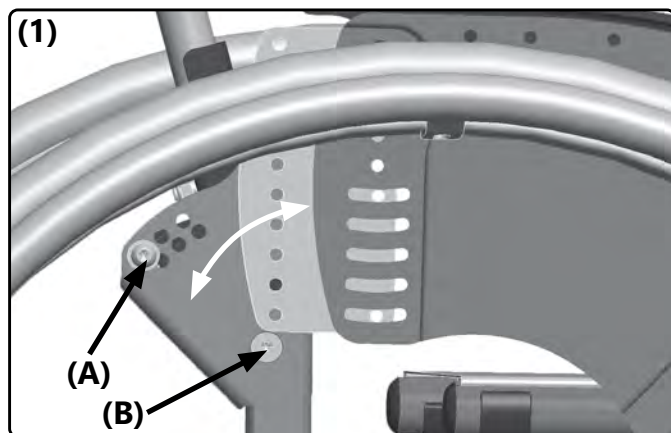
When converting from back standard 90° to back angle **ADJUSTABLE**, select the wide setting see image (2).

## 3.8 Assembly Group back

### 3.8.4 Setting the back angle

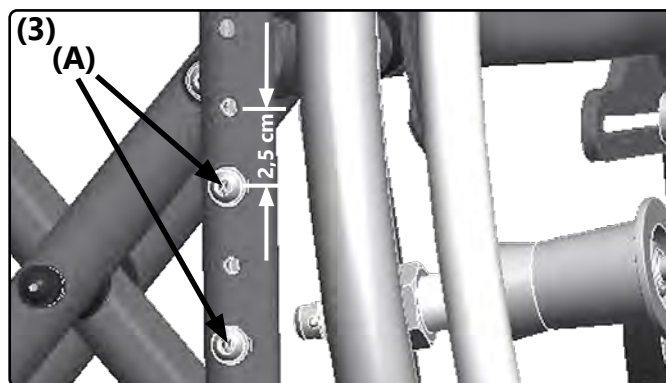
**(1+2)** The tilting angle of the back rest is set with the screws **(A)**.

Remove the screw connection **(A)**, loosen the screws **(B)**, tilt the back tubes in the wanted position, afterwards place the screws **(A)** in the new position and retighten all of them. The angle setting must be the same on both sides.



### 3.8.5 Extension on the standard backs

**(3)** Remove the screws **(A)** on the frame of the back tubes on both sides. Slide the back tube in the wanted position and retighten the screws.



### 3.8.6 Extension on backs with angle adjustment or setting

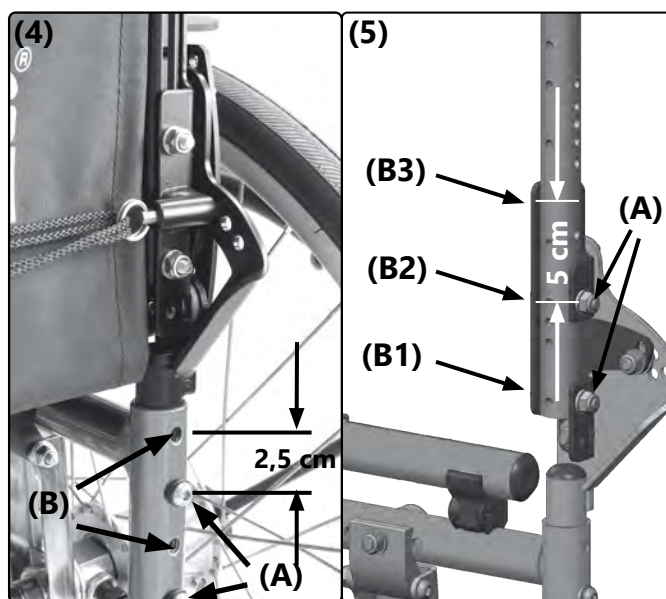
Height adjustment of 2,5 cm:

The extension is done as already described above by repositioning the frame tube.

Height adjustment of 5 cm:

**(5)** Remove both screws **(A)**, displace the back tube up from the holes **(B1 and B2)** on the front side to the holes **(B2 and B3)**. Retighten all screw connections.

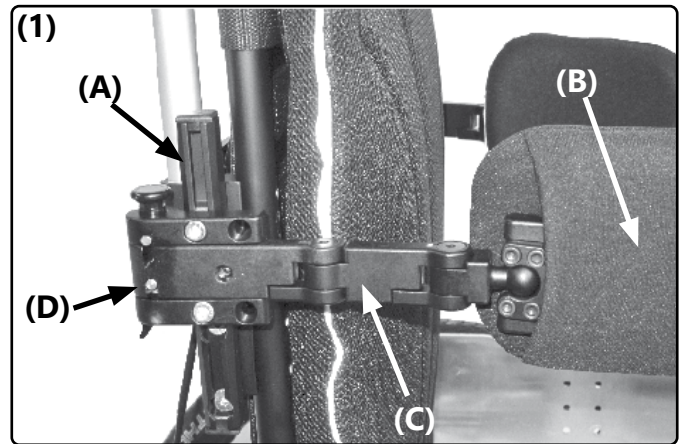
Should you have already extended the back 2,5 cm with the back tubes in the frame (picture 4), you must then reverse this action otherwise the distance between seat edge and the bottom back edge will be too big and the angle turning point with slide too far up.



## 3.9.1 Classification

(1) The truss pads consist of the following parts:

- (A) connection (C-bar)
- (B) truss pad cushion
- (C) truss pad holder
- (D) locking joint

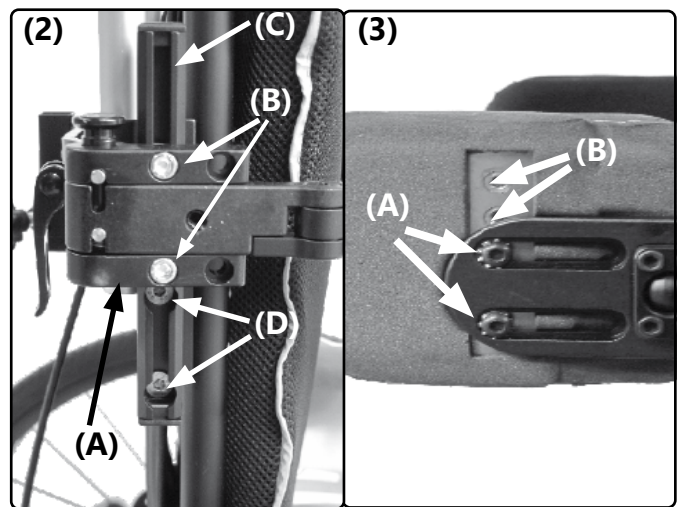


## 3.9.2 Vertical setting

(2) The vertical setting of the truss pads occurs on the one hand by moving the locking joint (A). Loosen both screws (B), move the locking joint (A), and retighten the screws (B).

vertical setting

(2) On the other hand, the truss pads can be adjusted by turning the c-bar (D). Remove the locking joint (A) by unscrewing the screws (B). Remove screws (D), turn the c-bar 180° and retighten the screws (D). Remount the locking joint (A) to the c-bar and retighten the screws (B).



vertical setting

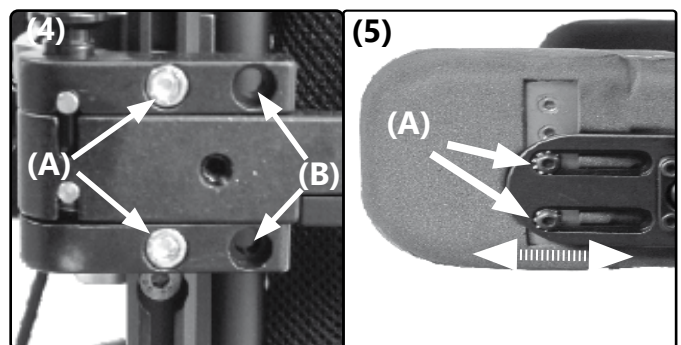
(3) Additionally, with truss pad size II the height can be adjusted by displacing the cushions. Remove the screws (A), place the cushion on the holes (B), replace and retighten the screws (A).

## 3.9.3 Horizontal setting

(4) The horizontal setting occurs on the one hand by displacing the locking joint. Remove both screws (A), place the locking joint in the alternate holes (B), replace and retighten the screws.

horizontal setting

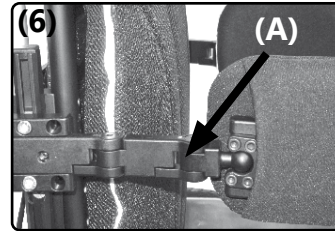
(5) On the other hand, it can occur by displacing the cushions. Remove the covers, remove the screws (A), displace the cushion and retighten the screws (A). After, replace the covers.



## 3.9 Assembly Group Truss Pads

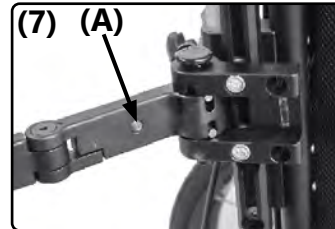
Horizontal extension

**(6)** For the horizontal extension add an extension piece (spare part): Remove the screw **(A)**, add the extension piece and screw it together on both ends.



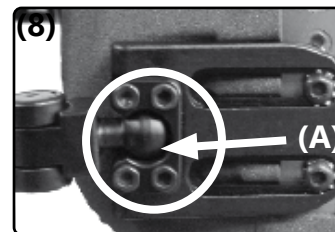
### 3.9.4 Fine adjustment of the truss pad holder

**(7)** The fine adjustment of the room between locking joint and truss pad holder occurs with the adjustment screw **(A)**.



### 3.9.5 Adjusting to the user

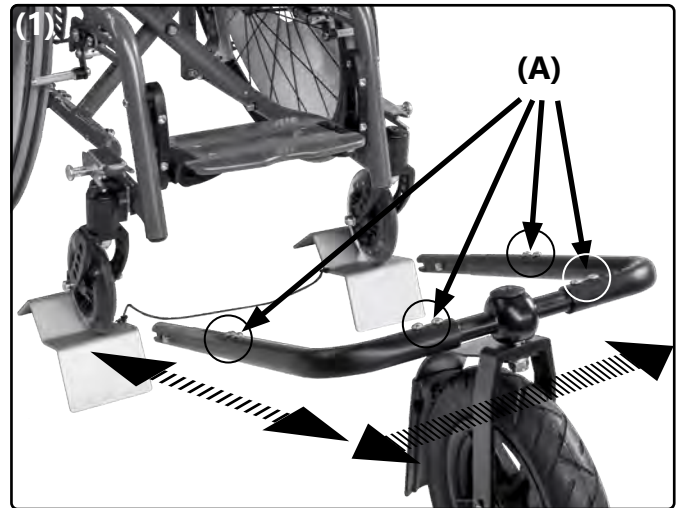
**(8)** If all positioning and extension works are finished close the truss pads, adjust the joints in the necessary position and tighten all joint screws **(6A)**. The ball joint is then fixated by tighten the four screws **(B)**.



## 3.10.1 General Information

The outdoor front end can be telescoped in length and width. Each joint **(A)** is fixed with two Tuflok screws each. Threads are threaded into the inner tube, into which Tuflok screws are turned.

After changing the width or length, both screws must be threaded in at each joint **(A)**. Tuflok screws are safety screws and should be replaced with new ones after opening.

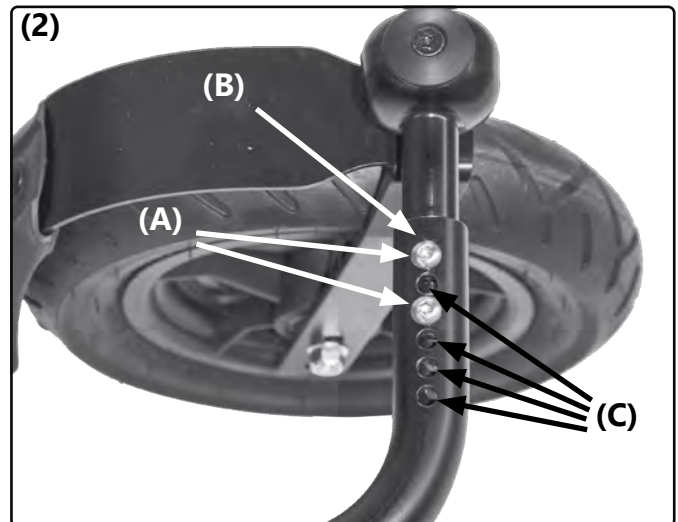


## 3.10.2 Widen

**(2)** To widen:

- Remove all four Tuflok screws **(A)** on both sides of the wheel and discard them!
- Telescope the tube **(B)** symmetrically on both sides to the desired dimension ( $\pm 1$  cm per hole).
- Firmly screw the new Tuflok screws **(A)** into the threads at the new position **(C)**.

The pipes must have been telescoped on both sides of the wheel by the same amount.



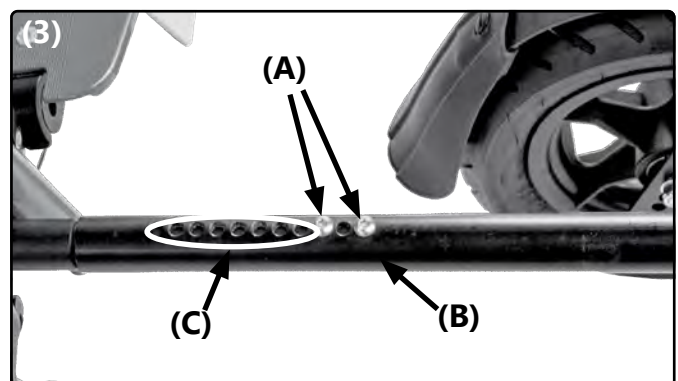
## 3.10.3 Extend

Extend / shorten causes:

- Long wheelbase = soft ride comfort with large shock absorption but large turning circle,
- short wheelbase = significantly reduced power during active driving, small turning circle and normal shock absorption.

**(3)** To extend:

- Remove all four Tuflok screws **(A)** on both sides and discard them!
- Extend / shorten the tube **(B)** symmetrically on both sides to the desired dimension ( $\pm 1$  cm per hole).
- Firmly screw the new Tuflok screws **(A)** into the threads at the new position **(C)**.



The pipes must have been telescoped on both sides by the same amount.



# 4 Repairs/maintenance/reinstatement

## 4.1 Repairs

Repairs are to be done by your specialized retailer.

## 4.2 Spare parts

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

The spare parts list can be downloaded at [www.sorgrollstuhltechnik.de](http://www.sorgrollstuhltechnik.de) or can be requested directly from us.

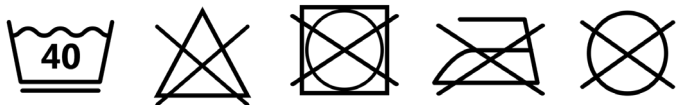
For a correct delivery of spare parts the appropriate serial number of the wheelchair is to be stated. You will find the number on the type label on the wheelchair's frame.

## 4.3 Maintenance

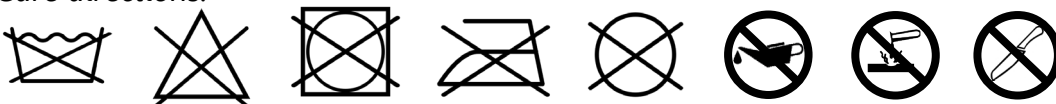
Clean the wheelchair and all components regularly with a mild household water-based cleaner and then dry it thoroughly.

In addition, clean the rear wheels and the casters and free the axles of dirt and impurities e.g. hair etc.).

Wash textile parts:  
*care directions:*



Wipe off pleather, straps and other upholstery:  
*Care directions:*



## 4.4 Disinfection

Before each disinfection the parts should be cleaned off first. For disinfection use a household water-based agent. Observe the instructions of the respective manufacturer.

## 4.5 Storage

- Carry out cleaning
- Fold foldable wheelchair (if available)
- Adjust seat tilt to 90° (if available)
- If necessary, pack removable textile parts in foil or similar
- Secure the wheelchair from rolling away and getting dirty
- Store in a dry environment without aggressive environmental influences.



## 4.6 Lifespan

The expected lifespan, depending on the intensity of use and the number of re-uses, is 5 years. For this purpose, the product must be used within the intended purpose and intended use, the instructions in the instructions for use must be followed and all maintenance and service intervals must be observed.

The product can be used beyond this period if it is in a safe condition. This theoretical lifespan is not a guaranteed lifespan and is subject to a case-by-case check by specialist retailers, as is reusability.

Use beyond the specified lifespan leads to an increase in residual risks and should only be carried out after careful and qualified consideration by the operator.

The lifespan can also be shortened depending on the frequency of use, the environment and care. The usual service life does not refer to wear parts such as textile parts, wheels and plastic parts that are subject to material-specific aging and / or wear. This specified service life does not constitute an additional guarantee or guarantee.

## 4.7 Reinstatement

Before reuse, a full inspection according to the checklist must be carried out by a specialized retailer. All disinfection measures for reuse must be carried out according to a validated hygiene plan.


## 4.8 Disposal

The wheelchair may only be disposed of with the approval of the benefactor. Disposal of the wheelchair must be in accordance with the applicable national regulations.

## 4.9 Maintenance/Inspection

For safety reasons and to maintain product liability, an inspection by your retailer is required at least once a year. This must be carried out and documented according to the following checklist.

### Checklist maintenance and care (user)

 A poor or neglected maintenance of the wheelchair represents a significant safety risk.

#### Before each use:

##### Please check:

- frame, back tubes, mounting parts and accessories for visible damages, deflections, cracks or missing/loose screws,
- wheels/quick release axles for firm fit,
- the airpressure of the tires, tire tread,
- the function of the brakes,
- firm fit of the angle adjustments/eccentric clamps,
- firm fit of seat plate/back/foot plate,
- the function of the anti-tipper/seat and back straps,
- if all previously dismantled parts are put on again or firmly locked.


#### Every 3 months:

(depending on use, earlier)

##### Please check:

- screws for firm fitting
- welds, attachments and accessories for hidden damages, deflections or cracks
- tire tread
- the firm fit of third-party systems (if available)

Clean the wheelchair and oil all moving parts.

 If you notice any defects during maintenance, please contact your specialist retailer immediately and do not use the wheelchair anymore.

### Checklist yearly inspection (specialized retailer)

Template (available for download at [www.sorgrollstuhltechnik.de/downloadportal](http://www.sorgrollstuhltechnik.de/downloadportal))

#### Preparatory Work

- cleaning done

#### Check:

- Frame, back, mounted parts and accessories checked for damage, bends, cracks and corrosion,
- all fixing screws checked for firm fit and completeness,
- casters and rear wheels as well as the associated attachments checked for good condition, functionality and proper running qualities,
- spokes checked for firm fit and completeness,
- brakes cleaned and maintained,
- Locking mechanisms (tripod springs of push handles, quick-release axles, eccentric clamps, etc.) checked for functionality,
- anti-tipper checked for firm fit and functionality.

#### Oiling:

- moving parts and bearings oiled

#### Final check:

- functional check of all mechanical adjusting devices carried out.

# 5 Technical specifications

## 5.1 Data and measurements

Model: Jump alpha

Type: 485

German Aid Index Nr.: 18.50.03.1079

All measurements ± 5%

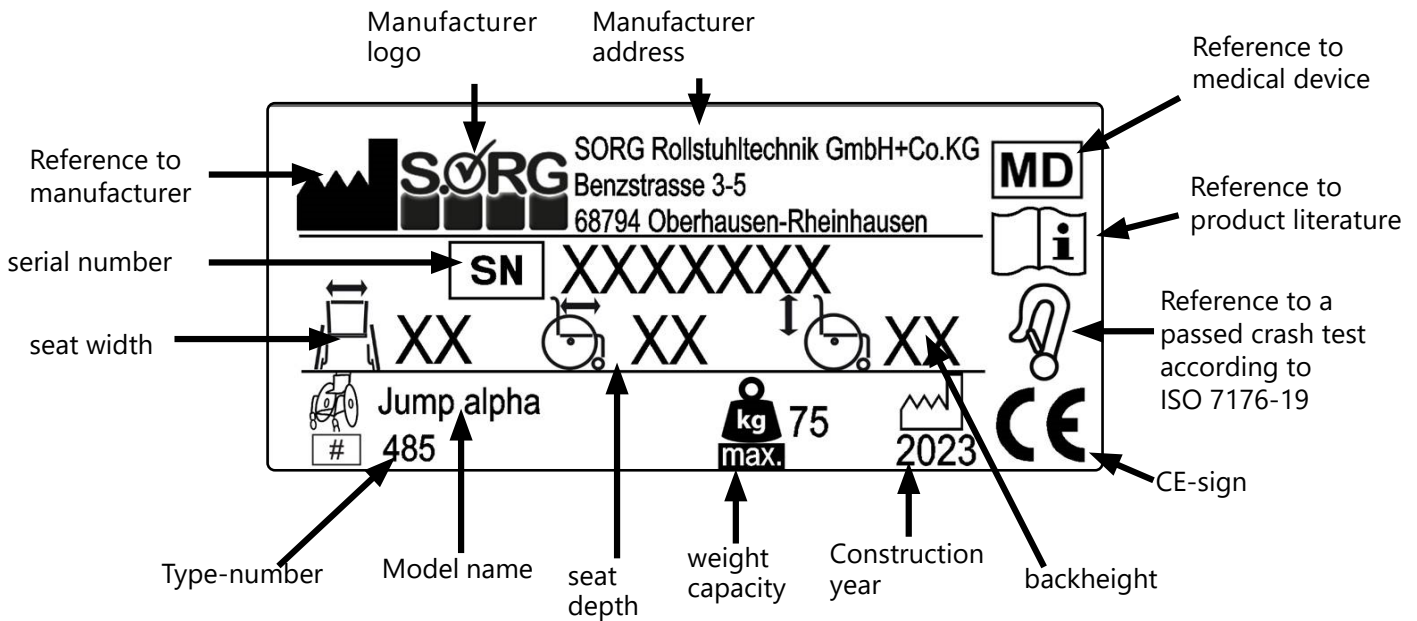
Indication		Measurements	Comment
seat width (SW)		240-380 mm	growing out of each seat width 40 mm
seat depth (SD)		260-380 mm	growing out of each seat depth 40 mm
back height (BH)		250-450 mm	growing out of each back height 25 or. 50 mm
upper edge seat to upper edge footrest	Cultivation inside Cultivation outside	25 - 300 mm 300 - 460 mm	The lower leg length results from the distance from: OK Seat to OK Footplate plus Thickness of the seat cushion
frame size 1		504 mm	Commercially available pneumatic tires in the sizes 1" (25,4mm), 1 3/8" (35mm) - sizes 489 mm (22"), 540 mm (24"), 590 mm, (26")All puncture-proof tires in the mentioned dimensions.
frame size 2		529 mm	
frame size 3		549 mm	
ETRTO wheel size	bei 20"	Ø 451 mm	
ETRTO wheel size	bei 22"	Ø 489 mm	
ETRTO wheel size	bei 24"	Ø 540 mm	
handrim diameter	bei 20"	Ø max. 444 mm	
handrim diameter	bei 22"	Ø max. 481 mm	
handrim diameter	bei 24"	Ø max. 533 mm	
handrim diameter		Ø 19 mm	
camber		2°, 5°, 8°	
Seat height in front	min. max.	395 mm 500 mm	The seat heights are measured from top edge seat to floor, without seat cushion!
Seat height in front	min. max.	340 mm 495 mm	
wide wheelchair	min. max.	SB + 200 mm SB + 380 mm	for smallest oder largest camber
wide Rollstuhl folded	min. max.	290 mm 350 mm	
Wheelchair length absolut	min. max.	620 mm 1080 mm	with outdoor front end longer
Wheelchair height absolut	with push handles Standard	min. 620 mm	
	with push handles height adjustable	max. 1480 mm	
incline		12,3% = 7°	
descent		12,3% = 7°	
stability		12,3% = 7°	
turning circle		ca. 1000 mm	depending on the wheelchair size
load capacity (max.)/ weight testdummy	max.	75 kg	
tare min.	roadworthy = SW 240, SD 260 mm, 20" rear wheel, 4" PU caster	9,25 kg	frame, side guard, rear wheel and caster, leg support, back and seat cover
heaviest piece	rear wheel	1,2 – 2 kg apieces	Depending on size and design
	frame	8 kg	
wheels	commercial pneumatic tires, sizes 1 ", 1 3/8" or puncture-proof tires (same dimensions), tire inflation pressure usually 3-10 bar		
length of use of the wheelchair	3 years		at not excessive demand
life cycle of the wheelchair	5 years		
Normative requirements	The wheelchair meets the requirements of ISO 7176-8 and the requirements against ignition.		

## 5.2 Meaning of labels

The meaning of the individual labels is explained in the texts at the respective place.

If the type plate is damaged or gets lost, a new one can be ordered from SORG Rollstuhltechnik.

### Type plate:



## 5.3 Declaration of conformity

SORG Rollstuhltechnik declares that the product Jump alpha class 1 device is and it complies with the EU regulation (EU) 2017/745 on medical devices.

This was confirmed by a conformity assessment procedure according to the medical Product Guidelines.



If the product is not modified with SORG wheelchair technology, this declaration will lose its validity.



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company stamp