



**S.ORG**<sup>®</sup>  
Rollstuhltechnik

# User Manual & Service Book

# Kika



CE



We are member of rehaKIND association



International Association for the  
Rehabilitation of Children and Adolescents

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# 1. General Information

## 1.1 Preamble

Kika will be your child's reliable companion in their everyday life. For this purpose, your child has to familiarise with the wheelchair because, as any other technical device, it may hold numerous dangers if used inappropriately.

The following user manual is divided up into 5 function-specific chapters:

1. General Information
2. Safety Instructions
3. Adjustments
4. General Handling
5. Maintenance

(Chapters 6-9 discuss technical data and warranty conditions)

Chapters 2 and 4 are supposed to acquaint you and your child with the wheelchair and to explain the daily handling. **Chapter 3 is directed EXCLUSIVELY to your rehabilitation engineer** since this chapter deals unexceptionally with safety-relevant points. So please, in your own interest, leave all adjustment work to a qualified medical supply store.

We work most carefully and thoroughly during all stages of development and construction to guarantee you the highest standard of quality, individuality and safety. Through our certification according to ISO 9001:2008 we commit ourselves to continuously increase this quality standard.

For reasons of simplification, in the following chapters we will only refer to you; however the information given is all the more important for your child since it contains important safety instructions.



### ATTENTION

As the current owner of the wheelchair, please keep this manual in a safe place and make sure all work done on your wheelchair by your medical supply store is documented in detail in the respective chapter at the end of this manual.

In case of a reuse of the wheelchair, this manual serves as an important source of information for your health insurance fund. Additionally, it provides the verification of regular inspections, which might be important in the event of a warranty claim.

Therefore, please keep this manual with the wheelchair and hand it back to your health insurance in case of return of your Kika.



### PLEASE NOTE

This **user manual** is intended for both you **and** your rehabilitation engineer. It contains instructions on the correct **adjustment** of the medical aid which may exclusively be conducted by a qualified member of the specialised trade (cf. **chapter 3**).

Moreover, it is supposed to help you get acquainted with the **handling** of your new Kika and to avoid accidents (cf. **chapter 4**). This manual covers all possible equipment options that might be installed on a Kika and thus may contain chapters that do not conform to your particular configuration.



### ATTENTION

Please read and mind this user manual with its general safety instructions carefully before putting Kika into service for the first time.

If you have any questions, the sanitary trade of your confidence or our competent team will be glad to help you.

Service line +49 07254 / 9279-0

We appreciate your confidence!

## 1.2 Reception

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

### ▶▶ PLEASE NOTE

For judicial reasons, we nevertheless need to ask you to check your wheelchair

**IMMEDIATELY after reception and in the presence of the bearer** for any damage that might have occurred during transport. Please note that, according to the legal situation, belatedly recorded damage cannot be asserted, neither to the forwarding company nor to us!

Please do not sign the acknowledgement of receipt of the forwarding company before careful inspection.

The necessary steps and measures for individual adjustments are stated in chapter 3 “Adjustments”.



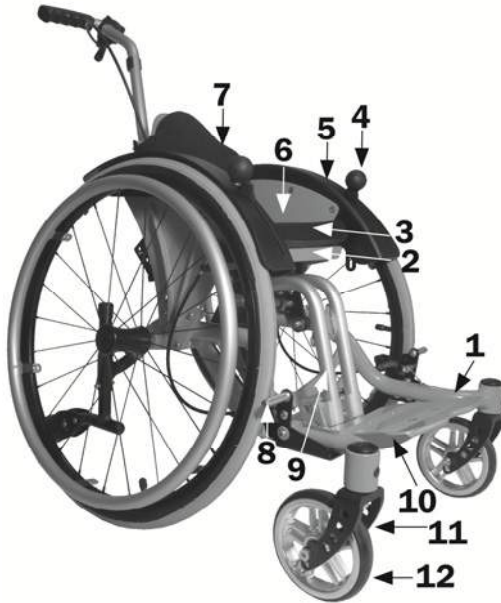
### ATTENTION

**For safety reasons, all adjustments described there are to be conducted exclusively by a specialised trade member qualified for this purpose.**

### ▶▶ PLEASE NOTE

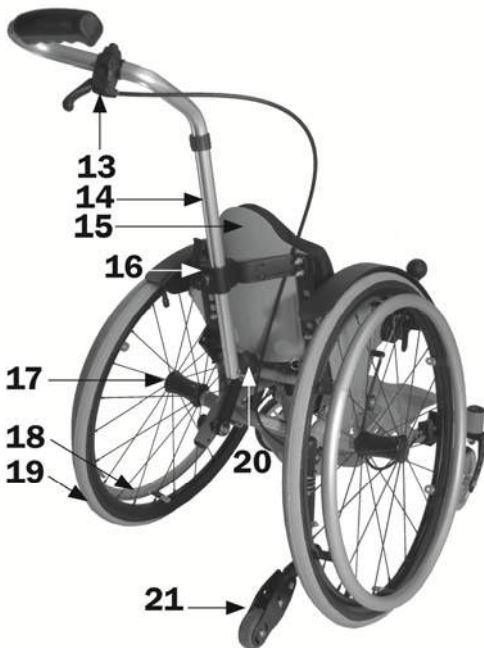
For ecological reasons, we kindly ask you to keep the packaging in case transportation becomes necessary at a later point (returning, shipping for inspection, etc.).

### 1.3 Wheelchair overview



The most important components of the wheelchair:

- 1. Frame
- 2. Seat plate
- 3. Seat cushion
- 4. Locking brake – operating element
- 5. Wheel guards
- 6. Side part
- 7. Back cushion
- 8. Locking brake – pressing element
- 9. Foot rest holder
- 10. Foot rest
- 11. Caster fork
- 12. Caster



- 13. Release lever seat-tilt
- 14. Push handle
- 15. Moulded back
- 16. Clamp lever for push handle adjustment
- 17. Quick-release-axle
- 18. Handrims
- 19. Rear wheel
- 20. Back angle adjustment
- 21. Anti-tipper

## 1.4 Specifications

Kika is a very lightweight, tiltable children's wheelchair with a rigid frame and a firm wheel base. The entire seat-back-unit is tiltable by 30° via the gas pressure spring, and the back angle may be adjusted 40° backwards or folded frontwards. Thanks to its light weight, its outstanding handling characteristics, as well as the custom-fit adjustment options of the ergonomically ideal grip point, Kika may also be used as an activity wheelchair. Hence Kika is the perfect combination of an activity wheelchair AND a buggy.

Kika is indexed for children with a seat width from 20 cm (approx. 7.9 in) and a weight of up to 50 kg (approx. 110 lbs). It supports early and careful activation of low-strength and/or very small people. The tilting and back angle adjustment contribute to shifting strains and thus training the entire tonicity as well as stimulating the cardiovascular system, the metabolism and digestive tract. An upright position of the pelvis and a good decubitus-prophylaxis are being supported. Kika aids in developing reflex control and perception, prevents scoliotic processes and supports the development of controlled muscular tonicity. These possibilities conform to the following disease patterns:

- spinal muscle atrophy
- Spina Bifida
- craniocerebral injury
- cerebral palsies
- all forms of paraplegia
- infantile cerebral palsy (ICP)
- paralysis
- athetosis
- ataxia
- unstable circulation and metabolism
- risk of decubitus
- difficulties in obtaining/maintaining an upright position

- pathological patterns of movement
- distortion of perception
- asymmetries
- lack of body and head control

From SW 20 cm (approx. 7.1 in) and up to a maximum payload of 50 kg (approx. 110 lbs), there are 2 different frame sizes available, dependent on the wheel size chosen:

- Frame size 1 (20" wheel)
- Frame size 2 (22" and 24" wheel)

Kika is not suitable for use in the following cases:

- tonicity disregulation (hyper- and hypotonicity)
- epilepsy/spasticities

The intended maximum payload must not be exceeded.

## 1.5 Application

Kika is suitable for both indoor and outdoor use. It is designed exclusively for the walking impaired or abatic child or adolescent to whom the wheelchair has been adjusted by a qualified specialist, for individual use in self-transportation or transportation with an assistant.



### ATTENTION

The transportation of a person may only be conducted on solid surface and using a seat unit or a seat shell. The wheelchair does not serve as a means of transportation for goods or the like. It is not intended to be used as a seat in a motor vehicle.

## 1.6 Additional electric drives

Additional electric drives may only be mounted on models we have released for this purpose.





## ATTENTION

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

# 2. Safety instructions

## 2.1 General security advice

Please make sure to read this user manual and the safety instructions very carefully before taking your new Kika into service. It is of utmost importance that both the user and their assistant are able to both understand and realise all instructions. Since it is not possible to list all dangers that may possibly occur under different circumstances, please make good use of caution and mind whenever you are using your wheelchair!

Please use Kika exclusively according to the specifications described in chapters 1.4 and 1.5. If used otherwise and/or inappropriately, the wheelchair may considerably endanger you and your surroundings. Furthermore, this may lead to the expiry of our guarantee and product liability!

Please make yourself and your child acquainted with the respective functions, specific characteristics, and the operation of your wheelchair. Take sufficient time for this and please make sure to conduct your first driving practices with the support of an experienced assistant.

It is very important that – in the presence of an experienced assistant – you test the stability of your new wheelchair to both sides, to the front, and to the back. 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.

To keep your wheelchair permanently safe and functional, please consider the instructions on handling (**chapter 4**) and maintenance (**chapter 5**).

Do not ever leave your wheelchair unattended – neither empty nor occupied! The brakes might loosen unintentionally and endanger you, your child, and your surroundings considerably. Always position your wheelchair against a wall or a corner so it cannot roll away.



## ATTENTION

**Please do not by any means conduct adjustments, maintenance and/or repair work by yourself, but always turn to the medical supply store of your confidence whose trained staff has been introduced proficiently to the conduction of this work and is equipped with the necessary tools.**

For functional reasons, your hands are placed on rotating parts (i.e. the rear wheels) while driving your wheelchair. To avoid injuring your hands, please make sure not to reach into the spokes of the rear wheels or the space between rear wheel and lever brake.

Profile wheels with integrated handrims or spoke covers (optional devices) reduce the risk of finger injuries.

## 2.2 Before every use

Please check the braking effect of the locking brake (and the drum brake, depending on the design) **before every use**. The locking brake can only function properly with sufficient air pressure and flawless tyre profile of the rear wheels.

Check the correct tyre inflation pressure according to the indication on the tyre equipment. The correct inflation pressure is printed on the wheelcover and should be at least 7.5 bar for the rear wheels. By the way: it will be a lot easier to drive and manoeuvre your wheelchair with the correct air pressure of caster and rear wheels.

Please check the safe and firm fit of the quick-release-axles: If the quick-release-axle button is not pressed, the rear wheels or casters must not be removable. The axles need to be cleaned from dust and fluff regularly.

Please conduct a general visual inspection to duly discover and repair possible damage that might lead to endangerment.

## 2.3 How to avoid tipping

Avoid using the foot rest(s) when getting in or out of your wheelchair for it might tip forward. Please fold the foot rest(s) to the side or to the back in order to get closer to the wheelchair. And make sure that you only conduct this action on firm, even ground and with the locking brake tightened.

Practice all driving techniques on even ground and only with the support of an experienced assistant at first. Only after that should you try and tackle downgrade and upgrade paths – again, with the support of an experienced assistant.



### ATTENTION

**Avoid putting your wheelchair into bank positions on uneven or sloping ground to prevent it from tipping sideways! Always drive in right angle from the hillside/the obstacle, never diagonally!**



### ATTENTION

**BEFORE putting your wheelchair into a rest position by tilting its seat or changing the back angle to more than 90°, make sure to turn both anti-tippers into functional position.**

Please drive downgrade or upgrade paths exclusively with the anti-tipper feature activated. When driving on upgrade paths and offsets, bend the upper part of your body forward as far as possible and drive ramps and upgrades with a pitch or incline of more than 6% only with the support of an assistant. When driving downgrade paths, please bend your upper body as much to the back as possible.

Please always use both anti-tippers if the back angle is adjusted to more than 90° and/or the immersible back extension is active – regardless of whether the wheelchair is resting or being pulled.

**ATTENTION**

**Active driving is only permitted with an upright back (90°) and WITHOUT seat-tilt.**

Adjusting the casters incorrectly (cf. chapter 3.9) 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. Hence, do not change the pre-adjusted position of the casters in the caster fork, drive downgrade paths very slowly and bend the upper part of your body backwards while doing so.

In order to reach for objects on the sides or in front of your wheelchair, please remember your initial stability test and do not lean out too far. If you feel insecure, you may use a reacher.

The standard 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 brakes or attendant brake (optional device) on the other hand, allows you to gradually decelerate your speed while driving.

Generally, we strongly recommend using an anti-tipper for inexperienced and young wheelchair drivers.

## 2.4 Coping with obstacles



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

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



Do not rapidly drive towards offsets (e.g. kerb stone edges) as this implies an increased danger of tipping! Do not jump from stairs or offsets with your wheelchair! This does not conform to the intended usage of the wheelchair, puts you and your surroundings in serious danger, and may damage your wheelchair heavily.

Please remember to fold your anti-tippers to the inside while using lifts and lifting plates and while surmounting offsets.

Before pulling a person seated in a wheelchair backwards over an obstacle via the push handles, please check the push handles in their bracket and the rubber pads on the push handle pipes for firm fit.

## 2.5 Heat and water

Handrims heat up through strong friction, especially by braking during fast driving or along downgrade paths. Therefore, if you have sensitive skin, we recommend you to wear gloves like those used in race-cycling (with leather palm protection – but **never** woollen gloves) or special wheelchair gloves.

Using the wheelchair in damp locations or in water should be avoided, as this may lead to the corrosion of components, which affects the driving quality and service life of your wheelchair negatively.



### ATTENTION

**Textile components of the wheelchair, such as cushion or plastic are inflammable. Therefore, please keep any ignition sources, particularly lighted cigarettes, away from the wheelchair.**



### ATTENTION

**Exposed to direct solar radiation, dark surfaces of the wheelchair (seat, back, clothing guards, etc.) may heat up strongly. To avoid burns, place the wheelchair in a shady place or protect it from direct solar radiation with a blanket (or a similar object).**

## 2.6 Driving in road traffic

Keep in mind that as a driver/passenger in your wheelchair you are a “participant in public traffic” and therefore have to respect the road traffic regulations.

Since your wheelchair does not count as motor vehicle according to legal regulations, you may use pavements driving at walking pace.

In the dark, wear preferably light-coloured clothes or clothes with reflectors. Avoid driving on road surface or bicycle paths.

Your wheelchair is provided with reflectors on the sides and on the back. Regularly check whether they are clean and clearly visible.

To use your wheelchair as a seat in a passenger car, only use means of transportation approved for the transportation of wheelchairs.

**Transporting a person sitting in a wheelchair in a vehicle implies a considerable safety risk for all people involved. We therefore strongly recommend not using the wheelchair as a seat in a passenger car and sitting down on a conventional car seat instead.**

**During a ride in a vehicle (including public transport), you must not be seated in your wheelchair without a restraint system for a passenger.**



### ATTENTION

**If using your wheelchair as a passenger seat in a vehicle cannot be avoided, the regulations according to DIN 75078-2 have to be fulfilled! Please make sure to read chapter 4.10 “Transportation in a passenger car”!**

### 3. Adjustments

The following indications on the adjustments of Kika affect its usage safety! Therefore, we are pointing out explicitly that all adjustments, reparations, and any other sorts of changes are to be conducted exclusively by the rehab technicians of your medical supply store who have been qualified by us!

The instructions relevant for you and the daily handling of your wheelchair are described in chapter 4 "General handling".

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

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



#### ATTENTION

A wheelchair is a medical aid which must be adjusted to the individual situation of your child by your rehab technician in order to obtain the highest therapeutic benefit possible.

But every technical device inherits safety risks in everyday usage. Therefore, we are pointing out explicitly that all adjustments, reparations, and any other sorts of changes are to be conducted exclusively by the rehab technicians of your medical supply store who have been qualified by us!

Otherwise, you may endanger yourself, your surroundings, and especially children considerably, and, moreover, lose our warranty claim!



#### ATTENTION

When conducting any adjustments, please make sure to maintain distances between all movable parts (e.g. pelottes, abduction wedge, etc.) and fixed parts in order to prevent human body parts from clamping in between them.

Guidance values for this purpose are:

Finger area: <5 mm or >25 mm

Foot area: <25 mm or >45 mm

Head area: <60 mm or >250 mm

## 3.1 Leg support adjustment

### 3.1.1 Undivided leg-support

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.



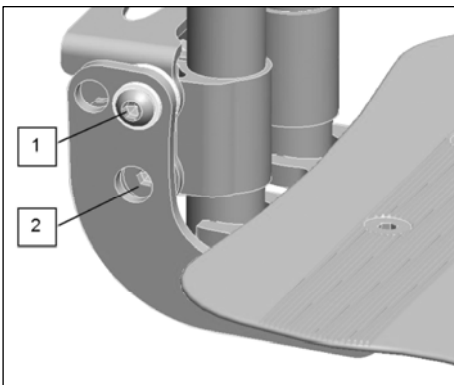
#### ATTENTION

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



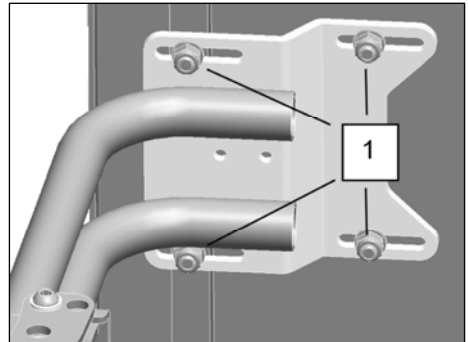
#### Adjustment of the lower leg length

- loosen screws (pos. 1 and 2) on both sides
- choose desired position, tighten screws (pos. 2)
- tighten screws (pos. 1), making sure that the foot rest can still be hinged upwards



#### Adjustment of the depth

- loosen screws (pos. 1)
- place leg support bracket into desired position
- retighten screws



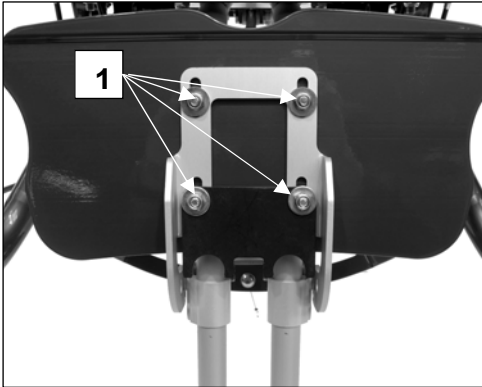
## Adjustment of the angle



### ATTENTION

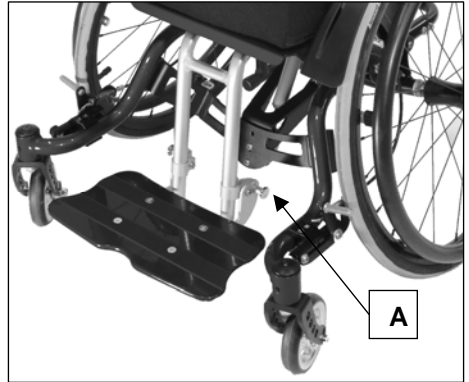
By changing the distance between the footrest and the carrier pipes (pos. 1), you may change the angle of the footrest by  $\pm 15^\circ$ .

- loosen screws (pos. 1)
- place foot rest into desired position
- tighten screws



## Locking device (optional)

- pull out the spring bolts (A) on both sides, then turn the spring bolt by  $90^\circ$
- hinge footrest backwards
- again, turn both spring bolts by  $90^\circ$  until they engage into the slot
- to open the interlock, please proceed analogically



### ATTENTION

Do not start your ride until you have made sure that the spring bolt is engaged firmly!



### ATTENTION

Please make sure not to bend too far out of the wheelchair when (un-)locking your footrest for you may fall out! Please have someone assist you.

### 3.1.2. Hinged leg support (opt.)

The hinged leg support is divided: Both sides can be altered in their angles up to a horizontal position (180°), independently from one another. This way the legs can be elevated in the tilted seat position to improve blood circulation.

#### Adjustment of the depth

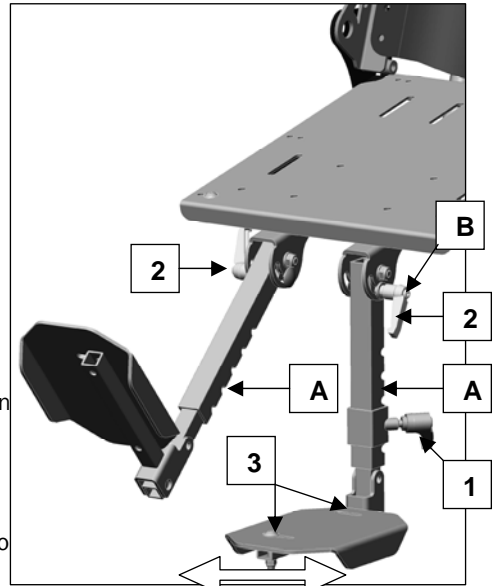
is conducted on the fixation below the seat plate.

#### Adjustment of the lower leg length

- loosen clamping lever (pos. 1) on both sides
- choose desired position on the axle plate (A)
- tighten clamping lever (pos. 1) firmly
- push button (B) on the grip part of the clamping levers and pull out
- turn the grip part until it is in a safe position

#### Adjustment of the foot rests

- loosen both screws (pos. 3) on both foot rests
- turn (abduction) and/or push foot rests into desired position
- tighten all screw joints (pos. 3) firmly



#### Swinging up the leg supports

- loosen clamp lever (pos. 2) on both sides
- place leg support(s) into desired position(s)
- tighten clamping lever (pos. 2) firmly



#### ATTENTION

Please make sure to turn away the grip parts of the clamping levers (pos. 1 and 2) backwards so they cannot injure or inhibit your child.



### 3.1.3. Leg support with support pad (optional)

If you choose a leg support with support pad, the opposite side is supplemented with a divided swing-up leg support. The side with the pad does not have a foot rest!

#### Adjustment of the support pad

- loosen the clamping lever (pos. 1) on the lower side of the pad
- choose desired position on the axle plate (A)
- tighten clamping lever (pos. 1) firmly

#### Swinging up the leg support

- loosen clamping lever (pos. 2)
- place leg support into desired position
- tighten clamping lever (pos. 2) firmly

#### Angle adjustment of the support pad

- loosen screw joint (B)
- adjust desired angle
- tighten screw joint



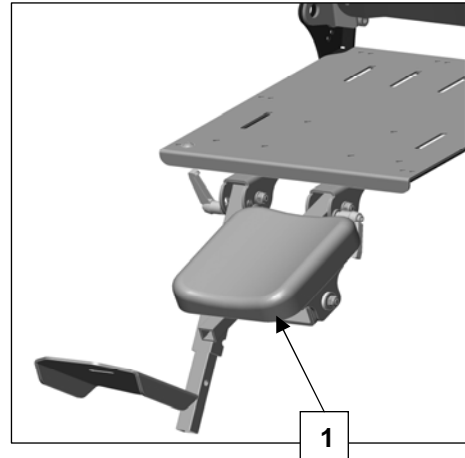
#### ATTENTION

Please make sure to turn away the grip parts of the clamping levers (pos. 2) backwards so they cannot injure or inhibit your child.



#### PLEASE NOTE

If your wheelchair is equipped with support pads on both sides, please conduct adjustments analogically.



## 3.2 Seat heights

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.)

In the case of Kika, the entire seat unit may be altered via the gas pressure spring (there is no other option for this purpose). Therefore the best way to obtain the desired seat inclination is by using the tilting mechanism.



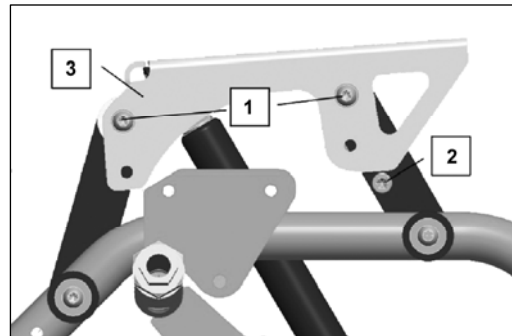
### ATTENTION

**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°.**

### Adjustment of seat height

By modifying the seat carrier plate, you may alter the seat height by up to 2.5 cm (1 in) differing from the height adjusted when the wheelchair is leaving our factory.

- remove screw joints (pos. 1) on the front and back completely
- mount seat carrier late (pos. 3) into desired position
- retighten screw joints firmly
- remount end stop screw (pos. 2) respectively on both sides



### 3.3 Centre of gravity

You may change the centre of gravity of the wheelchair (X) by moving the seat plate (pos. 2) in relation to the seat carrier part. When leaving our factory, the wheelchair is preadjusted into a tipping stable position. The further back the seat 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.



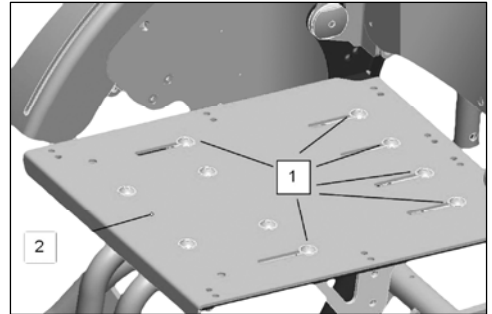
#### ATTENTION

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!

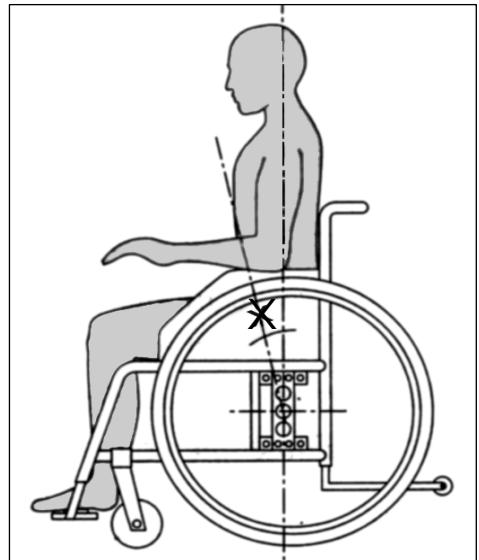


#### ATTENTION

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 the SAFETY INSTRUCTIONS carefully. (p. 8 Fehler! Verweisquelle konnte nicht gefunden werden.ff).



- loosen screws (pos. 1) and place seat (pos. 2) into desired position
- retighten screws firmly
- test new adjustments with the securing support of an assistant!



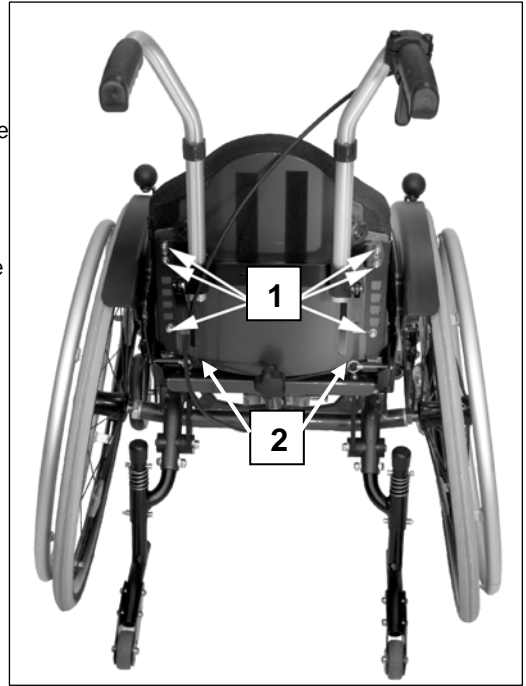
### 3.4 Back height

In order to provide as much moving space as possible for the arms when driving the wheelchair, the active driver's back height should generally reach to the bottom line of the scapulae.

The upper edge of our firm moulded backs is pulled up by approx. 5 cm in model 3 (and approx. 2 cm in model 1). Thus a longer support of the spine is achieved. Thanks to the curved upper edge of the back sheet plate, however, the scapulae can still be moved freely. The back height may be increased by 2.5 cm without any additional parts.

#### Extension of back height

- remove all 6 screw joints (pos. 1) on the seat support angle of the back sheet plate (A)
- mount moulded back into new position
- tighten screw joints firmly
- readjust or replace the string which activates the back angle adjustment (pos. 2) if necessary

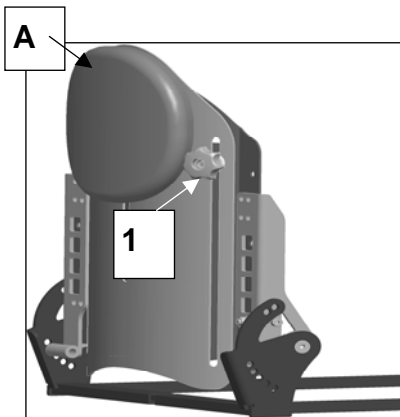


### 3.5 Retractable back extension with head pad (optional)

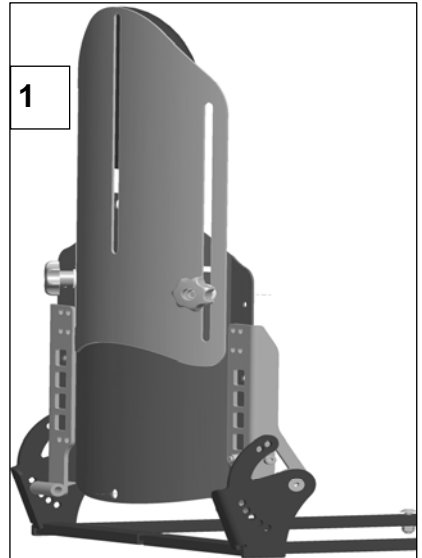
We strongly recommend this back extension in order to make sure your child is able to decide when they want to drive actively or rest. It provides the same comfort as a buggy and supports the head (while not inhibiting its movement) when the wheelchair is tilted.

#### Activating and deactivating the back extension

- remove the head pad (A)
- loosen star knobs (pos. 1) on both sides
- pull up the back extension



- tighten star knobs (pos. 1) firmly
- attach the head rest onto the other side with the aid of the Velcro strips provided



### 3.6 Pelvic belt (optional)

Pull the free ends of the belt on both sides through the space between the side part and back adapter. Screw together the ears of the belt ends into two of the bolts on the black back adapter. To insert a moulded back, loosen one of the screws and screw together both bolts with the pelvic belt.

### 3.7 Back angle

To alter the back angle, it suffices to fold down the release lever (pos. 1) so the bolts (A) will loosen from the locking plate (B). Keep the lever in the released position until you have adjusted the desired angle on the row of holes of the locking plate. Then simply let go of the lever so the bolts will snap into their holes.



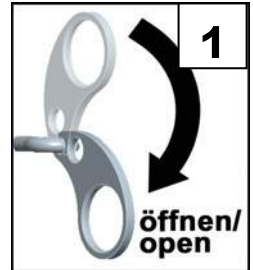
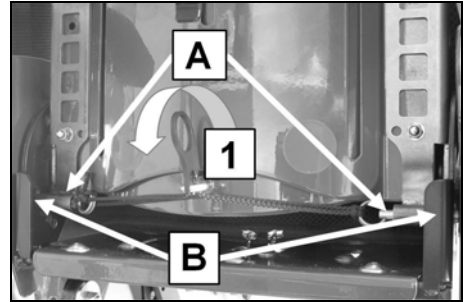
#### PLEASE NOTE

Please check the condition of the strings for abrasion regularly and replace them if necessary!



#### ATTENTION

After each back angle adjustment, make sure that BOTH bolts are firmly snapped into their holes!



### 3.8 Side guard, clothing guard

Kika's side guards and clothing guard are preadjusted in relation to its wheel size, so no further adjustments need to be done.

The lever for the locking brake is integrated into the clothing guard.



### 3.9 Arm pads (optional)

The arm pads, too, are firmly screwed onto the side guards so no further adjustments need to be done.

### 3.10 Adjustment of caster and rear wheel

Because of its firm wheel base, Kika is free of adjustments concerning the caster-rear wheel-constellation.

## 3.11 Locking brake

Each wheelchair is equipped with two locking brakes. They are to be used **EXCLUSIVELY** to secure the wheels in a rest position. They are **NOT** designed to decelerate the wheelchair while driving. For this purpose, please use the handrims or, if provided, the drum brake or attendant brake. Please be aware that aluminium handrims may heat quickly due to friction.

For your own safety, always check whether the brakes function correctly. Its function may be restrained by too little air pressure in the tyres, moisture, worn out profile, brake cable adjusted too weakly, and too much distance between the brake and the tyres.

### 3.11.1 Standard locking brake

First, please check the tyre air pressure of the rear wheels (the necessary indications are provided on the tyre cover) and inflate them if necessary.

- loosen the screw joints on the bottom of the locking brake (pos. 1)
- adjust brakes so the distance between brake bolt and tyres is approx. 3 mm (technical alternations reserved)
- tighten screws firmly
- test function with the securing support of an assistant
- for vernier adjustments, readjust the set screw (pos. 2)

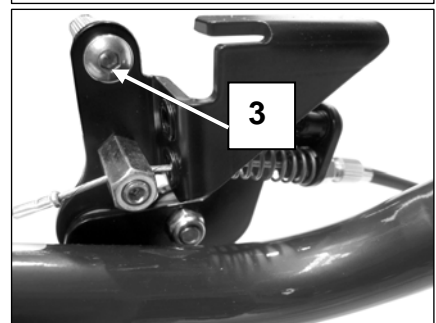
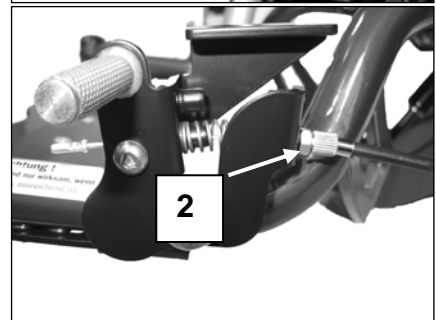
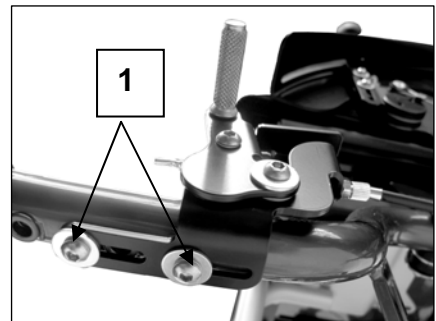
#### Exchanging the brake bolt

- remove screw (pos. 3)
- insert new bolt
- retighten screw



#### ATTENTION

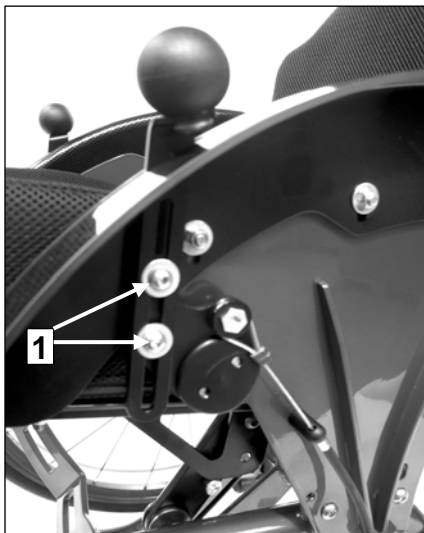
On a ramp with 6% incline, the rear wheels of the wheelchair with passenger must not slip with the locking brake tightened.



### Adjustment of braking distance/brake lever height

To adjust the length of the braking distance on the brake lever

- remove both screws (pos. 1)
- place brake lever into desired position via the ball head
- retighten both screws

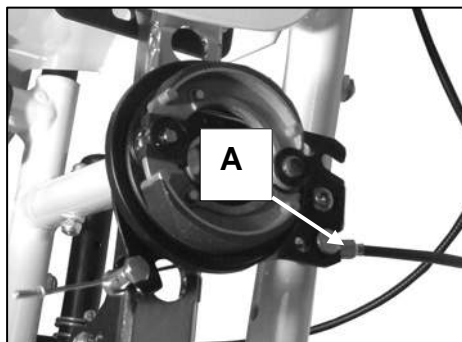


To lock firmly, the latch lever (C) has to snap into the brake lever (B). To unlock, please pull the brake lever further which will release the latch lever automatically.



#### 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-axle, make sure not to damage the brake as this would be a considerable safety risk!

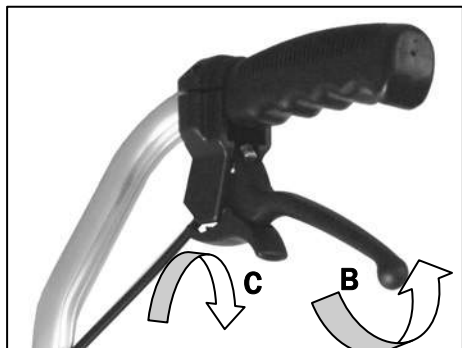


### 3.11.2 Drum brake (optional)

The drum brake is, unlike to the locking brake, also suitable for braking while driving.

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.

In the second lock-in-position of the hand brake lever (B), the brake must be so tight that the rear wheels of the wheelchair with passenger will not slip on a ramp with 6% incline (cf. above).





### 3.11.3 Attendant brake (optional)

The cable brake operated by the attendant serves exclusively as additional option for locking the wheelchair independently from the user.

It activates the standard locking brake indecently from the driver via an additional brake cable and **saves 1.6 kg (3.5 lbs) of weight compared to the drum brake!**

The adjustment follows the same instructions as for the drum brake described above. In the second indexed position of the hand brake lever (**B**), the brake must be firm enough to ensure that the rear wheels of the wheelchair with passenger do not slip on a 6% incline (cf. above).

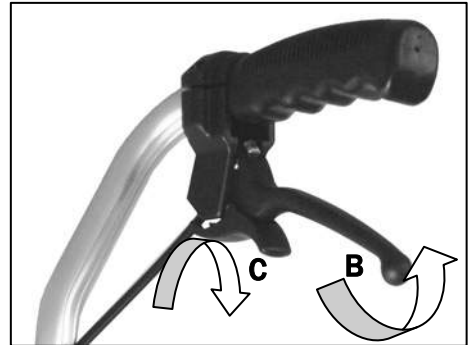
To lock firmly, the latch lever (**C**) has to snap into the brake lever (**B**). To unlock, please pull the brake lever further which will release the latch lever automatically.



#### ATTENTION

Please mind that signs of wear may occur on the brake bolt. So please check the functional efficiency of your brake before each ride and have your brake bolt exchanged if necessary.

Please handle the tyre profile in the same way, for it, too, may wear increasingly under the influence of the attendant brake.



### 3.12 Anti-tippers

The anti-tippers prevent your wheelchair tipping backwards unintentionally. Correct adjustments are hence very important for the function of the anti-tipper. The correct distance to the ground is 2-5 cm.

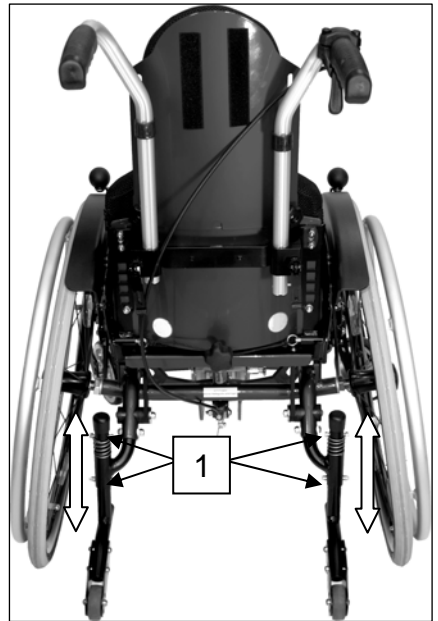


#### ATTENTION

Please also read the respective chapters 2 of the SAFETY INSTRUCTIONS.

#### Adjustment of distance to the ground

- measure current distance between the anti-tipper and the ground
- remove rear wheels
- remove screw joints (pos. 1) completely and insert them into suitable bores
- retighten screw joints according to instructions with the necessary moment of force
- check distance to the ground
- test function with securing support of an assistant



When exchanging the springs (A), please proceed in the same manner.

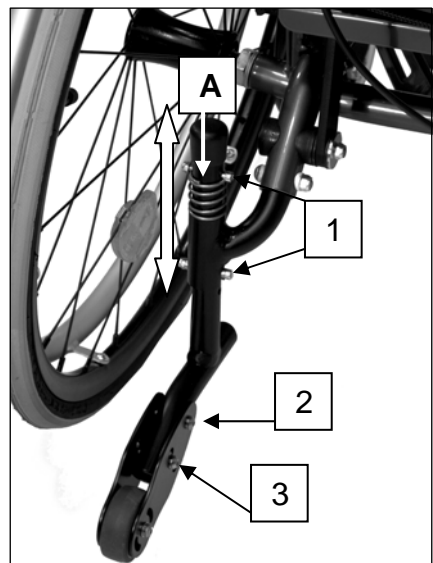
Further adjustments can be done via the small wheel at the back of the anti-tipper.

- loosen screws (pos. 2) on both sides
- remove screws (pos. 3)
- choose among the three holes and insert screws
- retighten all screws



#### ATTENTION

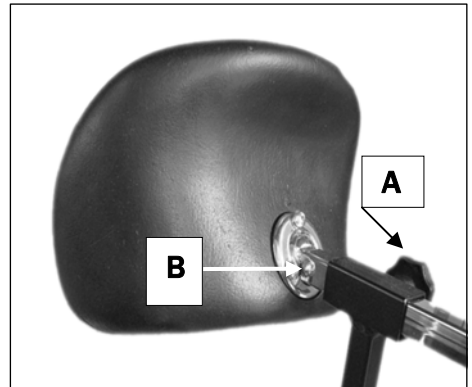
Make sure to make the same changes of the anti-tippers on both sides!



### 3.13 Head rest (optional)

Our head rests may be adjusted in height, depth and angle.

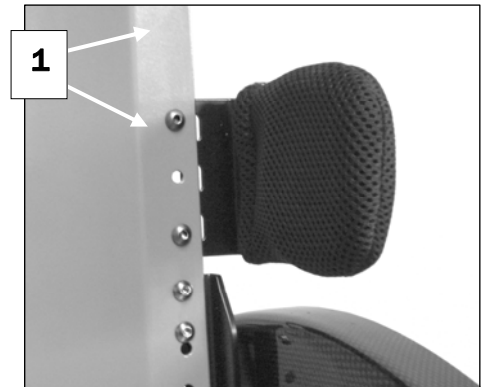
- **Adjustment in height** (no image): loosen star knob on the stabilising bar and tighten it into desired position
- **Adjustment in depth:** loosen the star knob (A) and set it tight after reaching the desired position
- loosen the three screws (B) to **adjust the head rest in angle**



### 3.14 Lateral truss pads (optional)

If your Kika is equipped with lateral truss pads, you may adjust them in vertical and horizontal position via the different bolts in the moulded back.

- loosen screws
- adjust desired position
- tighten screws firmly



### 3.15 Abduction wedge (optional)

The abduction wedge is supposed to keep the thighs apart. For children with too much tonicity in their legs this is often beneficial in order to attain better overall tonicity. For some children it is only then that the wheelchair becomes acceptable and usable.

Depth adjustment

- loosen star knob (pos. 2)
- adjust desired position
- tighten screws firmly

Height adjustment

- remove star knob screw joint completely
- adjust desired height
- retighten screws

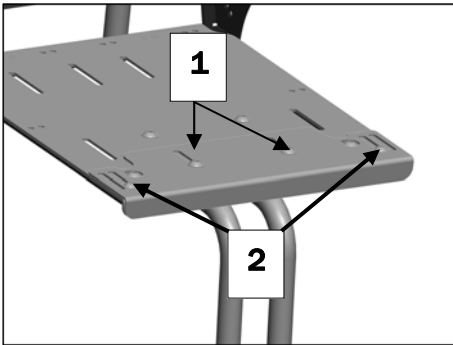


**Avoid taking the wedge with the wedge adapter out of the guide pipe completely.**

## 3.16 Growth adaption (optional)

Kika's back height is growth-adaptable by up to 2.5 cm (1 in) (cf. chapter 3.4) without any additional parts. With the optional growth-adaption-set, Kika can also "grow" in its seat depth by 2-3 cm (0.8-1.2 in) and its seat width by 2 cm (0.8 in).

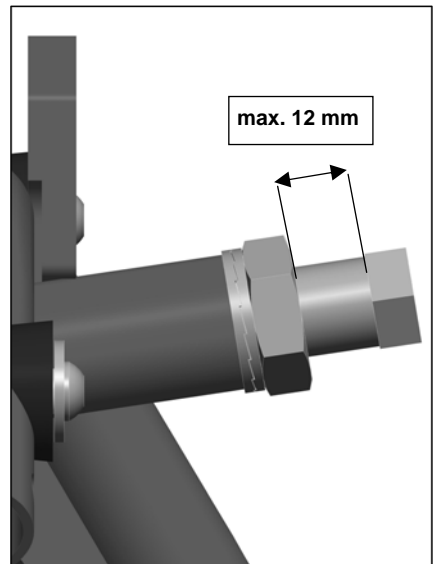
### 3.16.1 Seat depth extension



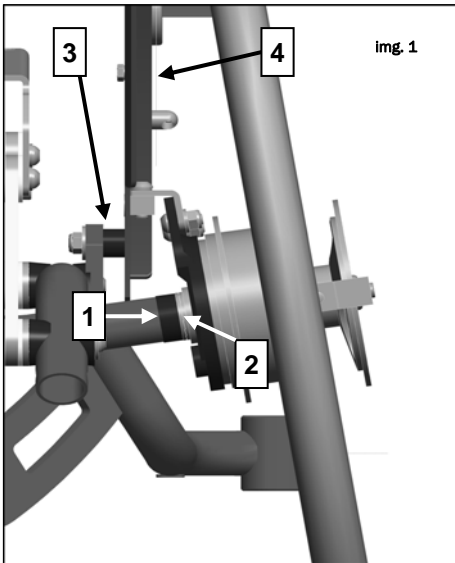
- remove screw joints (pos. 1 + 2)
- mount delivered seat extension with the delivered screws
- adjust desired extension and tighten screw joints

### 3.16.2. Seat width adjustment

- remove rear wheels
- remove string which alters the back angle
- remove screw joint of the moulded back and the screen angle
- remove screw joints of the side parts
- loosen screw joint of the quick-release-axle adapter
- unscrew the quick-release-axle adapter by about 10 mm (**the distance between quick-release-axle adapter and screw nut must not exceed 12 mm!**)



(image 1)

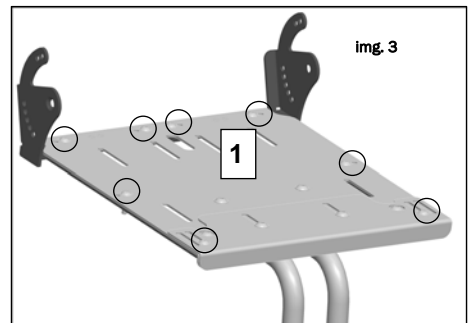
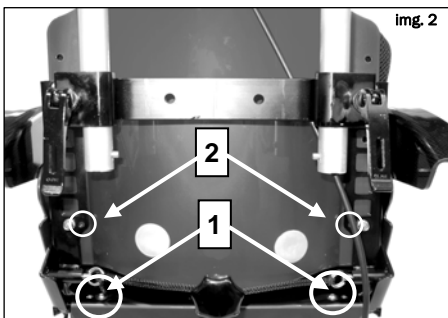


- for chairs with drum brakes: mount delivered distance (pos. 1) between axle and safety disc (pos. 2)
- insert distance parts (pos. 3) between frame plate and side part (pos. 4) and mount anew with delivered screw joint (image 1)

(images 2 + 3)

- mount screen angle below the seat plate with 4 screws each on the left and the right by about 1 cm further towards the exterior (image 2 +3, pos. 1)

- screw moulded back into the inner bolt (pos. 2) of the screen angle (image 2)
- tighten all screw joints
- readjust brake pressure if necessary (cf. chapter 3.5)
- insert and link up new string for the back angle adjustment function
- slightly melt the ends of the string with a flame (pocket lighter) to prevent them from frizzling



## 4 General Handling

The following indications on the operation of Kika in everyday life are directed to you as a user of the wheelchair and are supposed to help you to use the individual functions of the technical parts safely, competently and conventionally so you can profit from your wheelchair for a long time.

Please read the following indications on operation carefully and mind the suggestions on daily usage of your wheelchair.

### 4.1 Getting in and out

When getting in or out, please make sure that the locking brakes are tightened.

Have an assistant turn the casters forwards or drive backwards until the casters turn forwards; then close the locking brakes. This provides your wheelchair with extra safety from tipping when getting in or out.

Please avoid stepping on the foot rest because that might make your wheelchair tip forwards.

Do never lean on the clothing guard or the brake lever/-buttons inside the clothing guard when getting in or out for it may break.

To get in or out, you best lean on the handrims with both hands or as centric on the seat as possible.

Please familiarise yourself with the limits of your wheelchair right from the beginning by – **essentially, in presence of an experienced assistant!** – carefully leaning towards all directions and perhaps holding a heavy object with your outstretched hand and concentrating on the point where the wheelchair starts tipping.

Please note that changes of the wheelchair's centre of gravity bring about different conditions. Familiarise yourself with them through appropriate tests – **again, only in the presence of an assistant!**

In the long run, you can only prevent dangers that you are well aware of!

## 4.2 Push handles

We offer three options to push Kika:

- Extendable push handles
- Single-hand push handle
- Push bar (2 variations)



### ATTENTION

Before pulling a person sitting in a wheelchair over an obstacle with the aid of the push handles or push bar, please check if the handles are connected firmly to the wheelchair. The handles might loosen and thus cause considerable risk moments. Please also check whether the control lever and the set screw are connected firmly to avoid safety risks and to prevent losing the set screw.

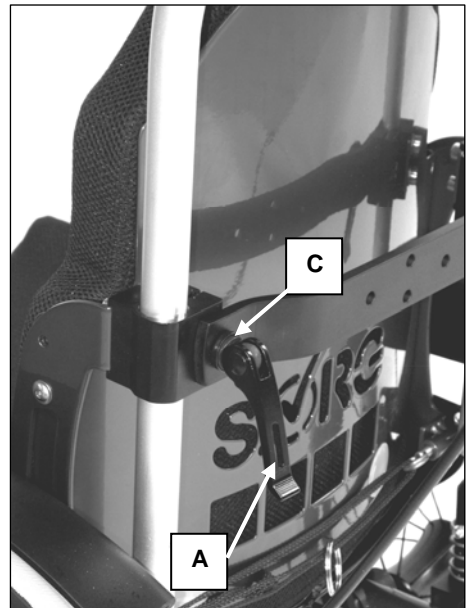
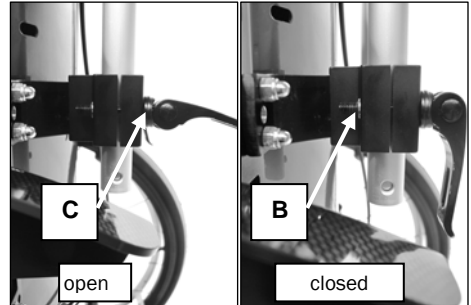
When playing with other children, it is strongly recommend to remove the push handle, because the child might not able to anticipate the swivel radius and might thus involuntarily injure other children!

### Adjusting the tension force

- put clamping lever (A) into an open position, so it is set vertically on the clamping device
- regulate the distance between the clamping lever and the half-shell (C) via the set screw (B)
- you have reached the ideal point if the round end of the clamping lever (A) rests exactly inside the half-shell (C)
- close clamping lever
- The pushing handle must not be movable in closed position!

### ▶▶ PLEASE NOTE

To adjust the height or remove, please proceed in the same way for all variants.



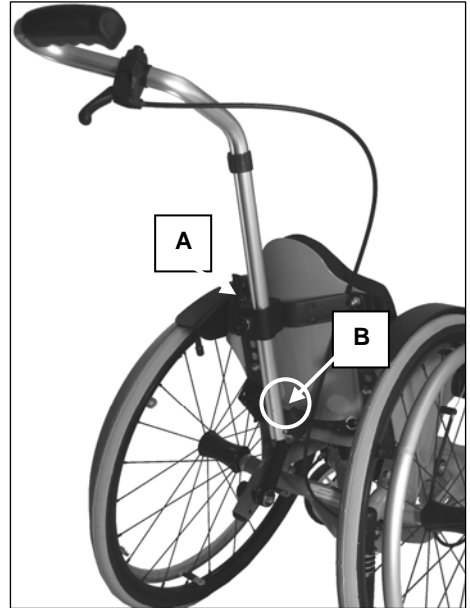
## Removing the push bars

At the lower end of the aluminium pipe is a stand spring which prevents the push handle from slipping off the clamp while adjusting its height.

Please open the fixation clamp (A). Push the safety button (B) on the push handle down, keep it firmly in this position, and, simultaneously, pull the push handles out of the guide pipe.

To insert the push handle, please open the fixation clamp again. Push the safety button and place the push handle, turned 90° counter-clockwise, back into the adapter. About halfway through (you will feel a blocking), please turn the push handle back 90° (clockwise), so the safety button can slip unimpeded through the clamp alongside the guiding slot.

Finally, close the clamp and make sure that the push handles are attached perfectly firmly.





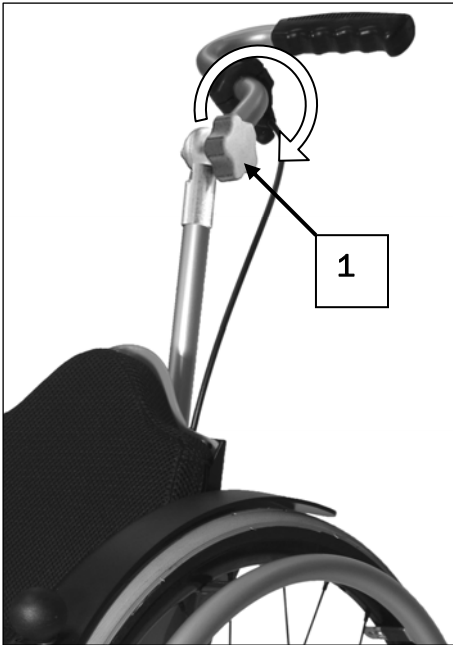
### 4.2.1 Single-hand push handle, firm or hinged (optional)

To vary the height of the push handle, loosen the control lever. Make sure to tighten the clamping lever after adjusting in order to be able to handle the wheelchair reliably.



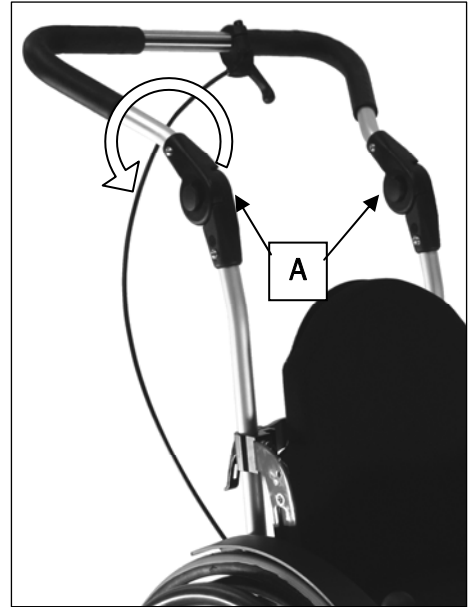
#### ATTENTION

Do not attach any bags or the like on the handles, as this makes the wheelchair more prone to tipping.



#### Hinging the push handle

- loosen the star knob (pos. 1)
- place push handle into desired position
- tighten star knob



### 4.2.2 Push bar (optional)

The push bar is a pushing aid for an attending person and has been designed exclusively for that purpose! To adjust the height, please proceed as described above. To adjust the angle, push the buttons (A) of both angle-adjustment-devices simultaneously and adjust the desired position.



#### PLEASE NOTE

Keep in mind that the push bar may influence Kika's proneness to tipping.



#### ATTENTION

Do not attach any bags or the like on the push bar, as the wheelchair might tip backwards due to the altered centre of gravity.

### 4.3 Tilt function, back angle adjustment and -extension

Kika's entire seat unit may be tilted continuously by 30° using the gas pressure spring. Additionally, the back angle may be adjusted from 80° to 90° via the ratchet joint.



#### ATTENTION

Both adjustments strongly affect the centre of gravity and thus the proneness to tipping of the wheelchair! Familiarise yourself with Kika's new tipping characteristics with the support of an experienced assistant!

#### 4.3.1 Tilt function

To tilt Kika, please activate the anti-tipper before working the release lever (pos. 1) on the push handle/bar and placing the seat-back-unit into the desired position, using both hands.



#### ATTENTION

Do not ever operate Kika's tilt while driving! To do that, please halt your wheelchair, activate the anti-tipper and prevent the chair from rolling away via the locking brake. To keep the wheelchair on the ground with all its 4 wheels, it may be necessary to place one foot on the front frame part.

Also, please make sure to hold on to the push bar with both hands while loosening the lever to prevent an abrupt shift of the seating position.



### 4.3.2 Back angle adjustment

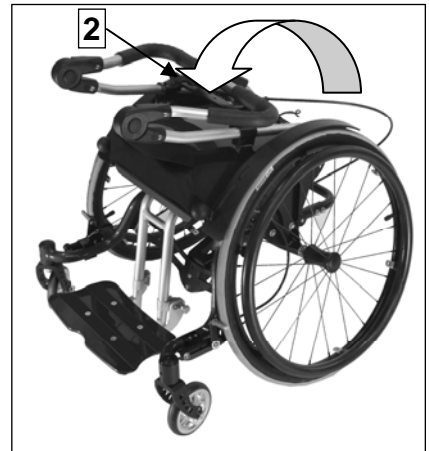
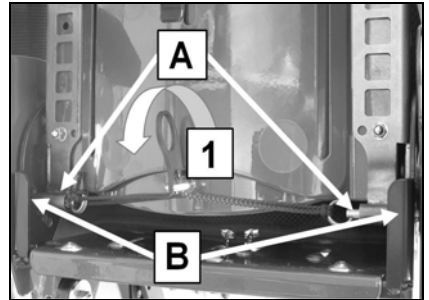
To adjust the back angle of your Kika, please activate the anti-tipper first. Then work the release lever (pos. 1) on the moulded back by pulling it down. Now place the back unit into the desired position. You need to hold the lever in the released position while doing so.



#### ATTENTION

**Make sure your child does not strain the moulded back while you are adjusting the back angle.**

Make sure that the ratchet bolts (A) are actually snapped into place on **both sides**. They have to protrude the outer face of the ratchet joint (B) by several mm.



### 4.3.3 Folding the back to the front

To fold the back to the front, please proceed in the same way and make the bolt snap into the last position. The stabilising bar (pos. 2) may then even serve as a handle to lift your Kika (into a car etc.).

### **4.3.4 Retractable back extension (optional)**

In order to be able to support your child's head while tilting or adjusting the back angle, we offer a retractable back extension which saves approx. 1 kg of weight compared to conventional head rests.

Furthermore, it provides the same and highest possible freedom of movement of your child's head as does a buggy.

- loosen both star knobs (pos. 1)
- place the extension plate into the desired position
- tighten both star knobs
- remove the head cushion (pos. 2) and place it into the desired position on the front face



#### **ATTENTION**

**Please keep in mind that extending the back, too, may influence the wheelchair's centre of gravity and make sure to use the anti-tipper!**

## 4.4 Anti-tipper

The anti-tippers are stored in a rotatable position within the frame adapter (A). To activate, push down the anti-tipper on the upper end of the pipe with the foot – or better with your hand –, turn it 180° backwards, and release it so it can engage into the positioning slot (B). To deactivate, please proceed the same way.



### ATTENTION

Please also read the respective SAFETY INSTRUCTIONS in chapter 2.



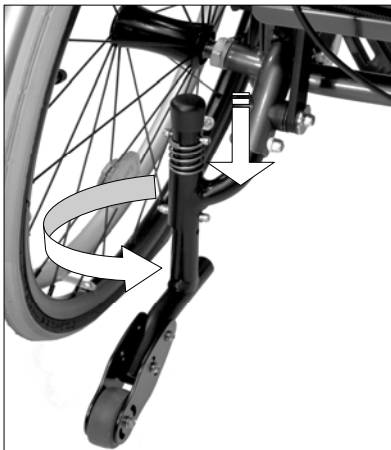
### ATTENTION

Please make sure that the extension is always engaged in its end position because a loose anti-tipper may lead to injuries in the assistant's ankle area.



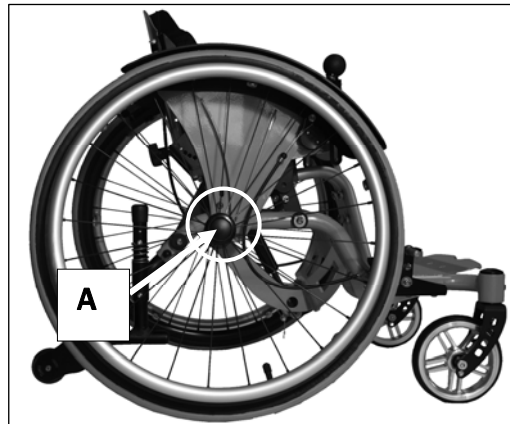
### PLEASE NOTE

To surmount barriers or obstacles, the anti-tipper may have to be swung in by the assistant and swung out afterwards because otherwise, the wheelchair might not be sufficiently tilted to the back.



## 4.5 Wheels with quick-release-axes

The quick-release-axes provide that all of our rear wheels are easily demountable and attachable without using any tools. 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.



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.



### ATTENTION

Please make sure that the quick-release-axle with the arrestor button and arrestor bolt is always clean. Sand, earth, dirt, moisture, and ice may lead to malfunctions of the snap-action mechanism, which inherits a considerable safety risk.

## 4.6 Leg supports

### 4.6.1 Standard leg support



Kika's standard leg support can be adjusted in its angle and lower leg length. These adjustments must be done by the medical supply store!

To get into your wheelchair, if possible, hinge the footrest backwards (after having arrested the locking brake!) so you can get closer to the seat. As soon as the child is seated safely in the wheelchair, lift their legs, put the foot rest back to the front, and position your child's feet; use heel holders if necessary (optional).

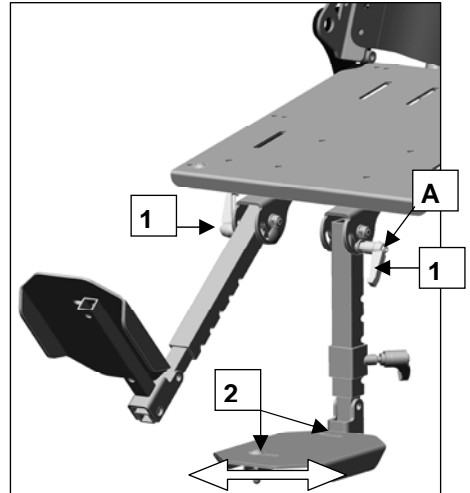


#### ATTENTION

**Do not EVER let your child get into the wheelchair via the foot rest for it may tip forwards and harm your child considerably.**

### 4.6.2 Leg support, hinged (optional)

The hinged leg support allows to store the legs at different heights, independently from each other.



#### Adjustment of the foot rests (abduction)

- loosen both screws (pos. 2) on both foot rests
- turn and/or move the foot rests into the desired position (abduction)
- tighten all screw joints (pos. 2)

#### Hinging the leg supports

- loosen clamping lever (pos. 1) on both sides
- place leg support(s) into desired position(s)
- retighten clamping lever (pos. 1)
- push button (A) on the handle of the clamping lever and keep it pushed
- turn the handle into a non-hazardous position

### 4.6.3 Leg support with support pad (optional)

#### Adjustment of support pad

- loosen clamping lever (pos. 1) on the bottom of the pad
- choose desired position on the row of holes (A)
- retighten clamping lever (pos. 1)

#### Hinging the leg support

- loosen clamping lever (pos. 2)
- place leg support into desired position
- retighten clamping lever (pos. 2) firmly
- push button (B) on the handle of the clamping lever and keep it pushed
- turn the handle into a non-hazardous position

#### Angle adjustment of leg support pad

- loosen screw joint (C),
- adjust desired angle,
- tighten screw joint firmly.



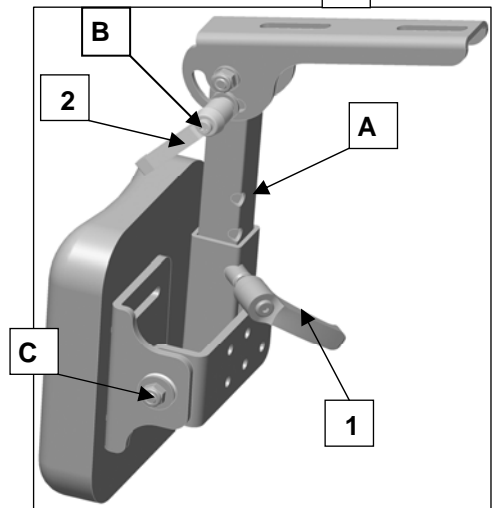
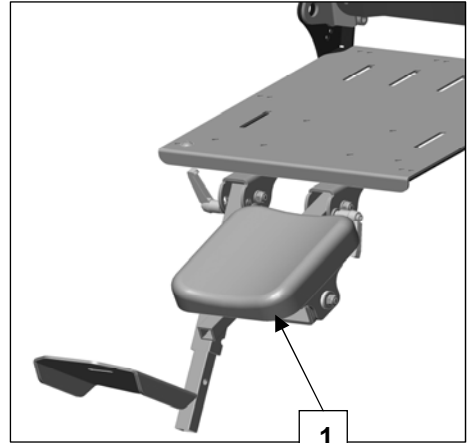
#### ATTENTION

Please make sure that the handle of the clamping lever of each leg support is turned away to the back so they may not inhibit or injure your child.



#### PLEASE NOTE

If your wheelchair is equipped with a leg support pad on both sides, please proceed analogically.



## 4.7 Locking brake

### 4.7.1 Locking brake, standard

Each wheelchair is usually equipped with two knee-lever brakes. They are to be used exclusively to secure the wheels in a rest position. Secure the wheelchair by pushing the control lever forwards. Push the control lever backwards, and your wheelchair is ready to ride again.



#### ATTENTION

Make sure to read the respective passages in chapter 2 "Safety instructions"!

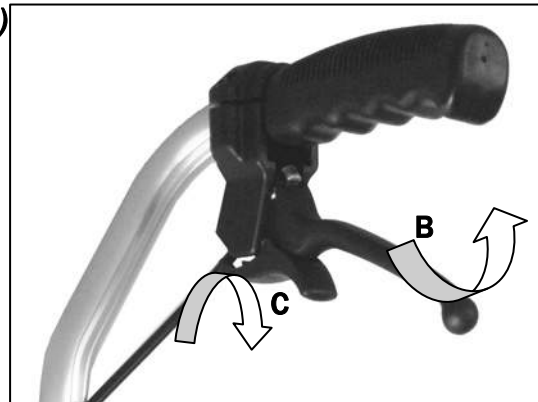
### 4.7.2 Attendant brake (optional)

The operation of the attendant brake is identical to that of the drum brake. Please proceed analogically.

### 4.7.3 Drum brakes (optional)

The drum brake can – contrary to the locking brake – be used to decelerate while diving. Our drum brakes additionally possess a mechanism for locking with which they may be blocked in maximum brake state (optionally, we also offer a child-proof lock for this purpose).

To lock the brake firmly, the locking lever (C) needs to engage on the brake lever (B). To release, please pull the brake lever further and the locking lever will automatically be released.





## 4.8 Loading and transportation



### ATTENTION

The wheelchair is not to be transported without suitable facilities (e.g. restraint system). In an accident, forces may occur for which the wheelchair has not been designed. Hence there would be a significant safety risk.

For transportation please mind the following points:

- fold the anti-tippers inwards
- remove the push handle(s)/bar
- loosen the locking brakes and remove the rear wheels by pushing the small button protruding the centre of the quick-release-axle and pull out the wheel with the button pushed
- fold the back frontwards as described in chapter 4.3.3. Unlock the back by turning the locking lever in any direction, fold the back frontwards and have the bolt snap into the last position (the stabilising bar may be used as carrying handle)



### ATTENTION

Please note that the quick-release-axes are very sensitive. So please avoid dirtying or damaging them.



### ATTENTION

When reinserting the wheels, please make sure that the quick-release-axle is fitted firmly. The button of the quick-release-axle must protrude the axle by several millimetres after snapping in place.

## 4.9 Safety of transportation

After storing Kika in the transportation vehicle, please proceed the following way:

- If you do not remove the rear wheels, please activate the locking brake!
- Store all demounted parts of the wheelchair safely in the vehicle so they cannot injure anyone in case of sudden braking.
- Secure the wheelchair in the vehicle with tension belts. Please only clamp the tension belts on the frame parts. The foot rest, side guards, back or seat adapter are not suitable for this.

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.



### ATTENTION

Please arrest Kika via suitable measures (e.g. belts) in the vehicle in order to prevent it (or parts of it) from injuring the passengers in case of sudden braking!



### ATTENTION

Store loose objects, such as sticks, bags, etc. safely, so they cannot spin around in the car and injure someone.

## **4.10 Transportation of the wheelchair as seat in a passenger vehicle**

### **▶▶ PLEASE NOTE:**

We must point out that transporting a person sitting in a wheelchair in a vehicle is a considerable safety risk! We recommend leaving the wheelchair for transportation and sitting down on a suitable, firmly fixed seating system.

**According to the regulations of ISO 7176-19, Kika is certified to resist the forces of a respective crash test and hence is - in combination with a suitable restraint belt system - released to be used as a seat in passenger vehicle.**

**We are glad to inform you about ISO 7176-19 and to give you advice on the measures necessary.  
Do not hesitate to call us: Service line +49 7254-92790.**

The restraint system may only offer sufficient safety in normal traffic situations (max. sharp braking manoeuvres and the like), but not in accidents outside the test values determined in the standard. Especially not in a rear collision.

### **▶▶ PLEASE NOTE:**

**The headrest on the wheelchair exclusively serves to support your child's head posture but does not serve for transportation securing! Therefore, a separate headrest firmly installed in the vehicle is absolutely essential!**

### **ATTENTION**

**Kika may NOT be transported with a tilted or angle-altered back! Make sure to put the back rest into an upright position. If you need a**

**restraint system according to ISO 7176-19 for your wheelchair, please contact your specialised trade.**

### **INDICATIONS OF LIABILITY**

Transportation in a wheelchair as a seat in a passenger car is always conducted at your own risk! SORG Rollstuhltechnik GmbH + Co. KG explicitly excludes all liability claims connected with a restraint system.

According to the current legal situation, the driver or the assistant are to arrange for professional securing of the wheelchair in a passenger car and they are, if need be, the ones liable for that.

Sorg Rollstuhltechnik GmbH + Co.KG holds no liability for damage of people or material arisen from transportation in a motor vehicle.

## 5 Maintenance

### 5.1 Cleaning and attendance

#### ▶▶ 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.**

#### CUSHIONS 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.

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

#### FRAME

The frame and 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.

### 5.2 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.

#### ▶▶ PLEASE NOTE

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

## 5.3 Inspection

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.

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

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.

### MAINTENANCE

The following maintenance manual presents (considering possible reuse) a mandatory guideline for the conduction of maintenance work. It gives no information about the extent of work actually necessary and observed on the vehicle.



### ATTENTION

**Being a participant in public traffic, the wheelchair driver is responsible for maintaining the vehicle fail-safe state.**

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

## 5.4 Checklist and maintenance

WHEN?	WHAT?	COMMENTS
<p><b>Before each use</b></p>	<p><b>Check wheels/quick-release-axes for firm fit</b>                      You must not be able to pull the wheel out of the quick-release-axle. The arrestor button must protrude the hub several millimetres (1 mm=0.4 in).</p>	<p>Conduct yourself or with the help of an experienced assistant.</p>
	<p><b>Check air pressure</b> according to the manufacturer's indications on the tyre.</p>	<p>Conduct yourself or with the help of an experienced assistant.                      Please resolve insufficient air pressure (indications on the tyre) and/or dirt yourself.</p>
	<p><b>Check brakes for flawless function</b>                      Close both brakes tightly. With locked brakes, you must not be able to push the wheelchair. At most, it should be possible that it slides across the surface with the wheels blocked.</p>	<p>Conduct with the help of an experienced assistant. If the brake does not take proper effect (worn out profile or braking bolt, loose brake lever etc.), immediately contact a medical supply store for qualified maintenance work.</p> <p><b>Please fix too little air pressure (indicated on the tyre) and/or dirt yourself.</b></p>
	<p><b>Check all screw joints for flawless fit</b></p>	<p>Please check:</p> <ul style="list-style-type: none"> <li>- fixation of seat support angle</li> <li>- fit of rear wheel adapter</li> <li>- fixation foot rest</li> <li>- fixation of moulded seat and back/seat shell or belts</li> <li>- connection between seat adapter and back</li> <li>- fixation wheel guard cover</li> <li>- fixation anti-tippers</li> </ul>
	<p><b>Check frame tubes for damage</b></p>	<p>If the welded seams are deformed and/or fissured, immediately contact a medical supply store for qualified maintenance.</p>

WHEN?	WHAT?	COMMENTS
Every 4 weeks	<p><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.</p> <p><b>Check tyre profile</b></p>	<p>Conduct yourself or with the help of an experienced assistant.</p> <p>Conduct yourself or with the help of an experienced assistant.</p>
Every 2-3 months (depending on driving performance)	<p><b>Clean and grease all versatile parts</b> All moving parts, such as brakes, brake levers, quick-release-axles, caster bearings, anti-tipper adapter, lower leg support, tiling mechanism, retractable back, ratchet joint for foldable back, etc.</p> <p><b>Retighten spokes</b></p> <p><b>Check gas pressure spring</b></p>	<p>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.</p> <p><b>To be conducted by the medical supply store!</b></p> <p><b>To be conducted by the medical supply store!</b></p>
Every 6 months (depending on driving performance)	<p><b>Check frame for cracks, corrosion and damage</b></p> <p><b>Maintain locking brake</b></p>	<p><b>To be conducted by the medical supply store! Please remove seat and back unit as well as leg support and side guards /clothing guard for better exterior visual control.</b></p> <p><b>To be conducted by the medical supply store! Inspect brake for symptoms of fatigue or abrasion.</b></p>

## 5.5 Checklist yearly inspection

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 reusage.

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

If required, the reparations necessary are to be conducted and documented in the service plan at the end of this manual

## 5.6 Reparatations

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.

## 5.7 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.

## 5.8 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.

## 5.9 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.

## 5.10 Reuse

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.

## 5.11 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.

## 6 Technical data

### 6.1 Measures and dimensions

Dimension tolerance  $\pm 5^\circ$

**Abbreviations:**

SW = Seat width SD = Seat depth BH = Back Height LLL = Lower leg length

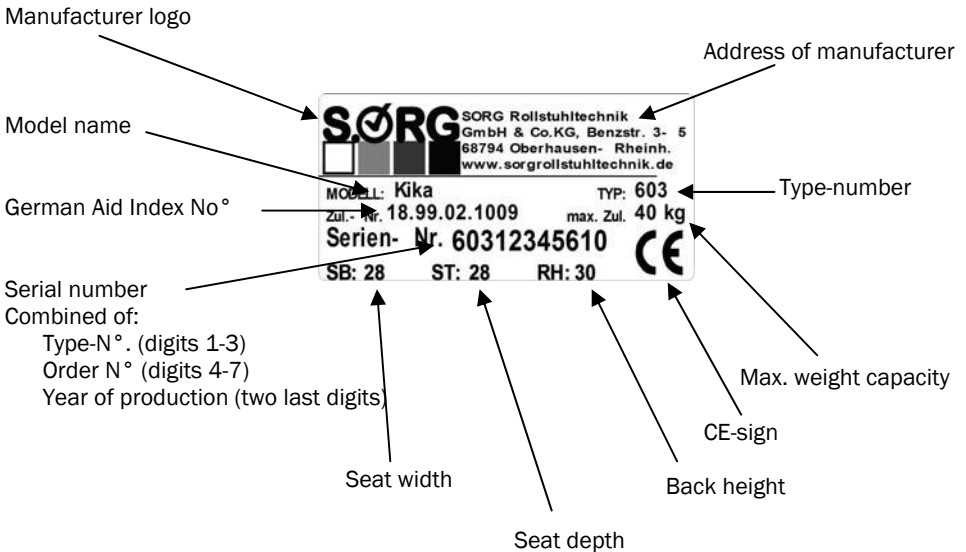
**Data:** Model: Kika  
 German Aid Index No°: 18.99.02.1009  
 Type N°: 603

Seat width (opt. + 2 cm)	20 – 30
Seat depth (opt. + 2 cm)	20 – 30
Back height (serially + 5 cm)	20 – 45
Lower leg length (LLL)	Max. 37 cm
Seat tilt angle	0° - 30° (continuous)
Back angle	Adjustable in 5 steps from 80° - 120°
Seat heights (20" wheels)	350 mm – 375 mm
Seat heights (22" wheels)	375 mm – 400 mm
Seat heights (24" wheels)	400 mm – 425 mm
Wheel sizes	20", 22", 24"
Caster sizes	4", 5", 5,5", 6"
Camber	9°
Corrosion protection material/coating	Powder coating, high-grade steel, aluminium, galvanization

Tolerable inclination	7% = 4°
Tolerable decline	7% = 4°
Tipping safety	7% = 4°
Turning circle	Ca. 100 cm
Max weight capacity	50 kg (110.2 lbs)
Empty weight (example)	SW 24, 20" wheels, 4" PU = 10.9 kg
Width	min. SW + 300 mm, max. SW + 370 mm
Length (without push handles)	at 20" = 660 mm at 22" = 705 mm at 24" = 730 mm
Height (without push handles)	min. 610 mm (20"/BH 20) max. 930 mm (24"/BH 45)
Support point for transportation	stabilising bar on foldable back
Single weights (depending on size)	frame + leg support + seat + back = ca. 8 – 13 kg
Single weights (depending on size)	Rear wheels 1.2 – 2 kg
Tyre	All customary tyres in sizes of 1" and 1 3/8" respectively in ERTRO – sizes 451 (20"), 489 (22"), 540 (24") Or any fail-safe tyres with the dimensions given respectively.

## 6.2 Meaning of labels

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



This product is compliant with all EU-regulations 93/42/EWG for medical products

# 7 Warranty


## Warranty bond

### Quality assurance system

In producing our wheelchairs, we make sure to maintain the highest quality possible and to conform to all relevant DIN-standards and EC-guidelines. Therefore we had our company registered according to ISO 9001:2000 in 2003 and we regularly undergo the required follow-up audits.

All our wheelchairs, mobile standing frames, and seat shell base frames meet the requirements of Medical Aid Act and possess the respective CE marking (customized products excluded).

### Durability

According to the criteria of  international association children and adolescent rehab incorporated society, regarding quality and safety in the case of reusing rehabilitation products, we as producer can reliably guarantee a durability of 5 years; presupposed that the wheelchair is exposed to normal forces and that it is maintained regularly by a specialised trade.

Beyond this period, we guarantee the provision of replacement parts for further 2 years (special mountings excluded).

### Service life

Products in reuse are subject to increased strain. Therefore, we recommend, when reusing Kika, not to extent a further service life of 3 years in line with the durability.

The term “Service life” describes the period of time in which a product is in permanent use. Hence periods of storing at the benefactor’s and/or specialised trade are not part of the service life.

“Durability”, on the other hand, is the period of time which we define based on our experience and the technical factors; this period of time may not be exceeded when reusing the product.

**However, we are pointing out that you can influence this durability directly, for it is significantly dependent on the maintenance of the product.**

In the best case, the functional efficiency may reliably be extended beyond the defined durability.

## JURISTIC CONDITIONS OF WARRANTY

### I. Subject of warranty

This warranty applies to wheelchairs, mobile standing frames, and seat shell base frames by the company SORG Rollstuhltechnik GmbH + Co.KG (in the following abbreviated to: SORG).

Legal claims associated with warranties for defects of the end consumer towards the medical supply store or other service providers responsible for the provision of the patient are not affected.

### II. Extent of warranty

SORG grants a period of warranty of 5 years after first use on replacement parts and diagonal braces, considering the conditions in section III and under disqualification according to section IV. The warranty grants the end consumer claims on receiving replacements and subsequent improvements according to the requirements of paragraph 2.

If production and/or material defects occur 2 years after first use, SORG may replace the entire wheelchair, or it may replace or repair faulty parts of the frame and/or diagonal braces. Hence, SORG is obligated to replace defected parts only. Further claims for reduction, compensation, or rescission of the contract are not granted.

### III. Claim conditions

The following points need to be fulfilled in order to assert claims for warranty payments:

- the wheelchair must be in first use
- the wheelchair must have been adjusted a qualified specialised trade
- the transduction of complete provision must have been conducted by the specialised trade with an attached nonconformity report
- changes on the wheelchair must not exceed the adjustments intended by SORG, unless they have been arranged with SORG in the individual case
- our products may exclusively be repaired and extended by qualified specialists using original replacement parts only

#### IV. Exclusion of warranty

Under the following circumstances we exclude claims against us:

- if the conditions for claims according to section III are not met
- if the reduction of utilisability of the wheelchair is the result of improper usage, especially in case of unarranged and prohibited modifications
- if the reduction of utilisability of the wheelchair is the result of normal abrasion
- if the reduction of utilisability of the wheelchair is the result of changes in the physical condition of the patient, e.g. due to significant increase in weight
- if the reduction of utilisability of the wheelchair is the result of high violence or if the wheelchair has been vandalised
- if SORG assesses that the instructions of maintenance and usage have not been followed
- if SORG determines that the maintenance regulations and instructions have not been complied with

#### V. Liability

Sorg Rollstuhltechnik GmbH & Co.KG does not warrant in case of negligence and is not liable for voluntary acting of auxiliary persons. Incidentally, the claims for replacements restrict to damages predictable at the outset of the conduction of the benefits.

#### VI. Secondary Regulations

- Cases of warranty are to be indicated in an appropriate period of time
- Replaced items must be handed back to SORG Rollstuhltechnik GmbH + Co. KG
- Warranty benefits are to be fulfilled in Oberhausen-Rheinhausen, Germany
- These warranty conditions are liable German civil and commercial law

#### VII. Period of warranty for repairs

The period of warranty for repairs expires along with the warranty of the wheelchair; however, it runs for at least 1 year.

#### VIII. Complaint

In case of complaint, please send the following warranty form to us.

When sending back your wheelchair, please remember to attach the invoice number/delivery note number as well as a short description explaining how the incident came about.

This way, you may help us to prevent the respective error in the future. You will find the indications necessary on the type plate.

#### IX. Delivery damages

Deliveries must be checked for possible damage **immediately on reception and in the presence of bearer (!)**; they have to be reported to the carrier and us immediately! Otherwise, no claims against them or us can be enforced.

Ask the carrier for their „data“ (copy of their driver's licence or the like) so the transport may be reconstructed accurately if necessary. This conforms to the general conditions of the carrying trade and the current legal practice.

## **Room for notes**

e.g. for constructional changes etc.

# 8 Warranty Form

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

<b>Warranty</b>											
Model						date of delivery					
<input type="text"/>						<input type="text"/>		<input type="text"/>		<input type="text"/>	
Serial number						SW/SD/BH					
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Retailer information											
<input type="text"/>											

**Assembly worker:**

This product conforms to the EC guidelines 93/42/EEC for medical aids. Our staff has constructed and examined this wheelchair most thoroughly for you! For this we bail with our signature.

\_\_\_\_\_ Date Signature

**Quality check:**

\_\_\_\_\_ Date Signature





# 9 Life cycle record

## 9.1 User chronology

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

<b>2.</b> Name of user/legal agent	
Date of birth	
Street	
Postal code/Town	
Benefactor/Health Insurance Company	

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

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

## 9.2 Service book

### Maintenance due every 6 months

**Maintenance at issue:** Check and readjust all screw joints including spokes; check and, where needed, readjust locking brakes/drum brakes; check and readjust all frame parts and welded joints

**Date,  
Stamp  
Medical  
supply store,  
Signature**

**Date,  
Stamp  
Medical  
supply store,  
Signature**

**Date,  
Stamp  
Medical  
supply store,  
Signature**

**Date,  
Stamp  
Medical  
supply store,  
Signature**

### 9.3 Yearly inspection and before every reuse!

Yearly maintenance:	According to checklist on p. 46		
Date, Stamp Medical supply store, Signature			
Date, Stamp Medical supply store, Signature			
Date, Stamp Medical supply store, Signature			
Date, Stamp Medical supply store, Signature			

## Retailer information

Your specialised trade



Company stamp



**Rollstuhltechnik**

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D-68794 Oberhausen-Rh.

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Technical alterations and misprints excluded