EN

Airon

Service record

All individual adjustments to the wheelchair are described below. Tools and specialist knowledge are required for these settings. Please leave these adjustments to a qualified rehabilitation specialist.

MADE IN GERMANY

Unique people, unique solutions.

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Revisions status
2023-08-01

Technical status
We reserve the right to make technical changes and misprints. The images can differ from the actual individual equipment components. The handling is to be carried out accordingly.

Gender notice
For editorial reasons, for better readability, only the masculine form is used. Corresponding terms apply in the sense of equal treatment to all genders and do not represent any valuation.

You can find our general terms and conditions on our order forms and at www.sorgrollstuhltechnik.de/impressum.

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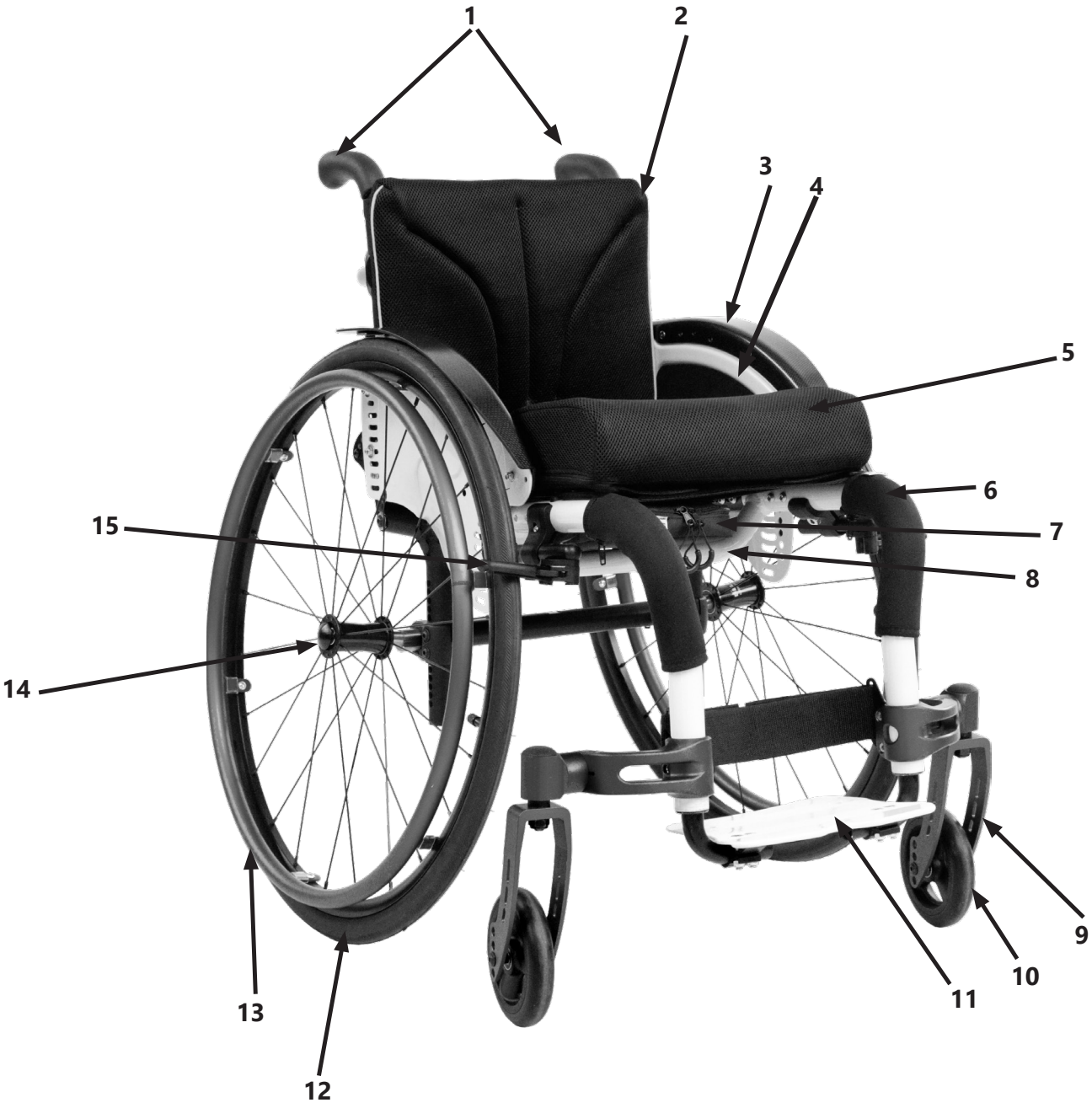


1 Push handles
2 backpart with cushion
3 clothes guards
4 side panel
5 seat cushions
6 protective pads
7 utensil pocket
8 frame
9 caster wheel fork
10 caster wheel
11 foot plate (continuous)
12 drive wheel
13 hand rim
14 thru axle
15 compact brake

2 General information

2.1 General information on the service booklet

All individual settings, adjustments, repairs and the annual inspection of the wheelchair are described below. This requires tools and special expertise. Please leave these adjustments to a qualified specialist retailers.

Adjustments that can be made by the attendant are described in the instructions for use.

If you have any questions or comments, please contact your specialist retailer or our team (+49 7254 9279-0).

2.2 Documentation notes

Please note:

- Information for the user can be found in the instructions for use
- Maintenance instructions can be found under: Chapter 4 (Repair & maintenance)

2.3 Required torques and tools

Torque required for the following screws:

- M5: 5 Nm;
- M6: 7 Nm;
- M8: 20 Nm;
- M10: 25 Nm; (caster wheel)

Needed tools:

- Torque wrench (5-50 Nm)
- Open-ended wrench
- Reversible ratchet with socket wrench inserts
- Hexagon screwdriver
- Phillips screwdriver
- Slotted screwdriver
- Plastic hammer
- Side cutter
- Thread locking liquid
- Bicycle tube repair kit
- Workbench / vice with plastic jaws

2.4 Explanation of symbols

ATTENTION! Warnings for personal safety issues, of the utmost importance

CORRECT safety relevant setting/handling

WRONG setting / handling

PROHIBITED

Reference to additional / further reading.

Important detail / element

Correct or proper setting / use

Inadmissible or incorrect setting / use

(A); (B)

Reference from text to detail

Handling

Push / pull / insert / move / remove

Push in a certain direction

Set or adjust the angle

open/close

Turn clockwise

Turn counterclockwise

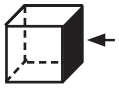
Steps to be performed at the same time

Steps to be performed in sequence

Steps to be performed on both sides

Perspective

View from above



Side view

View from below

Front view

Rear view

Attach part

Remove part

2.5 General safety information

⚠ **Check before every ride:**
- Frame, back tubes, add-on parts and accessories for visible damage, bends, cracks or missing / loose screws,
- Wheels / axles on tight fit,
- sufficient tire pressure, tire profile,
- Functionality of the brakes,
- tight fit of the angle adjustment elements / eccentric clamps,
- firm closure of the seat plate / back / foot plate,
- Functionality of the anti-tipper / seat and back straps,
- whether all previously dismantled parts are reinserted and firmly locked.

⚠ There is a risk of injuries (e.g. crushing) on all rotating, rotatable or foldable parts, also during adjustment and repair work as well as during transport.

⚠ All wheelchair parts are to be handled properly. Do not throw or drop removable parts!

⚠ Before starting the test, repair or adjustment work, clean / disinfect the wheelchair and secure it against tipping over and / or falling.

⚠ Use only original spare parts.

⚠ Safety nuts may only be used once. Safety nuts that have been loosened must be replaced with new ones.

⚠ Only 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 service life leads to an increase in the residual risks and should only be carried out after careful, qualified consideration by the operator. If the service life is reached, the user or a responsible person should contact the specialist retailer. There you can get information about the possibility of processing the product.

Combination with products from other manufacturers

⚠ The wheelchair may only be combined with the additional electrical drives approved by the manufacturer. Restrictions or adjustments as well as the cultivation itself are the responsibility of the provider of the additional system or the authorized specialist trade. Please ask the manufacturer of the additional drives for the requirements.

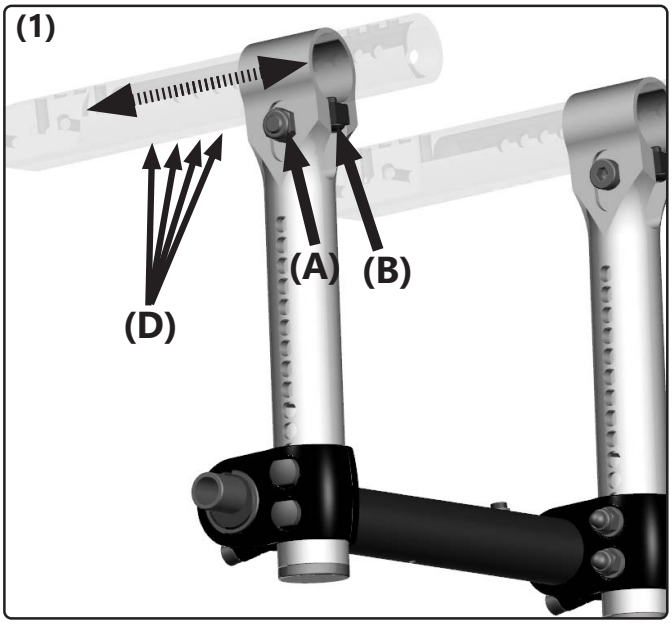
⚠ In the combination of a wheelchair and an additional electric drive, particular loads occur which can lead to damage to the wheelchair. Approach obstacles slowly and overcome them carefully so that little force is exerted on the caster wheel, drive wheel and the wheelchair as a whole.

3.1 Wheels assembly

3.1.1 Activity

(1) To set the activity

- remove both drive wheels,
- loosen the nut and the screw **(1A)**.
- Loosen the screw **(1B)** until it no longer engages in the holes **(1D)**.
- To make the chair more active, move the entire holder forward on both sides.
- To adjust the chair more passively, move the entire holder backwards on both sides.
- The move must be done in parallel on both sides.
- Re-establish the clamp connection by inserting the screw **(1B)** into the selected hole **(1D)**.
- Tighten the screw and nut **(1A)** again.



⚠ Make sure that the mount is firmly seated and that there is no longer any play!

⚠ Go carefully to the maximum and the user (!) desired point of tilt.

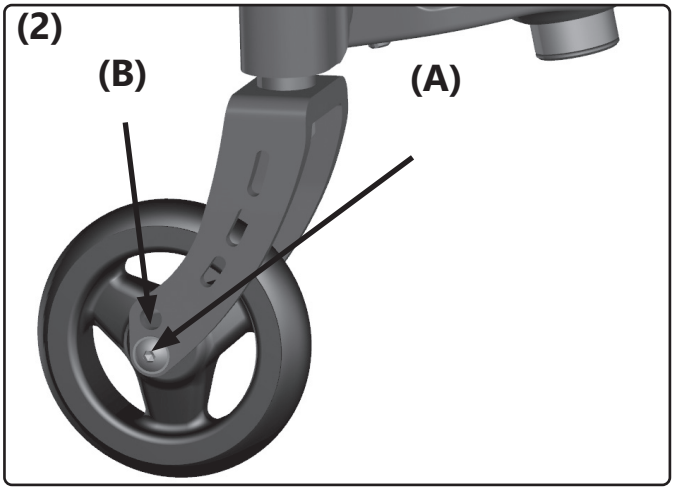
⚠ The further back you move the caster wheels, the greater the risk of the wheelchair tipping forward when getting in and out.
The further you mount the drive wheels with the perforated plate to the front, the greater the risk of the wheelchair tipping backwards.

3.1.2 Seat height in front

(2) The front seat height is adjusted via the position of the caster wheel in the caster wheel fork.

- Completely remove the screw connection caster wheel / caster wheel fork **(2A),**
- Fasten the caster wheels in the desired hole **(2B)** on both sides,
- Tighten the screw again.

After every change you have to check the vertical tilt of the caster head and correct it if necessary (see chapter caster head tilt).



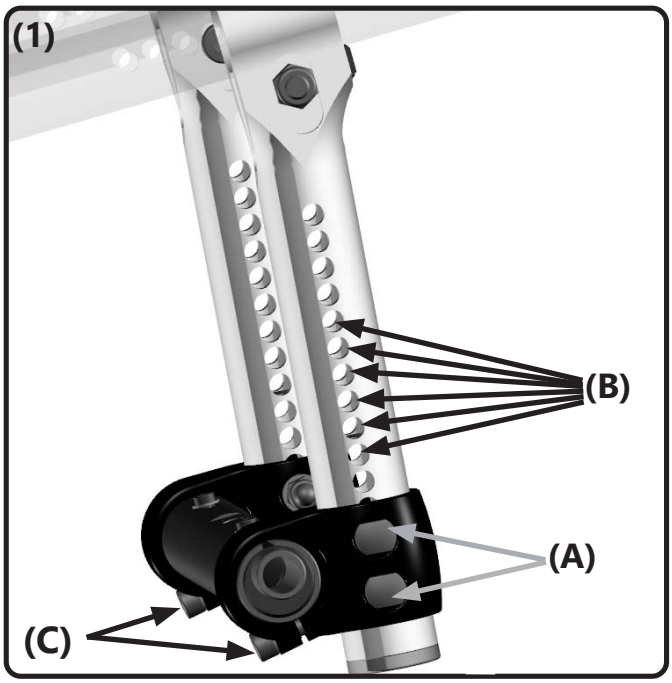
* Not with thru axle (castor wheel adapter)

⚠ Hair, lint, dirt, etc. collect on the bearings of the caster wheels, making the caster wheels stiff. Remove the caster wheels at short intervals and thoroughly clean the forks, axles and sleeves.

Please proceed in the same way with plastic forks.

3.1.3 Rear seat height, seat inclination

As a rule, the seat height at the back is selected approx. 2-3 cm lower than the seat height in front in order to achieve a safe and comfortable sitting position with good distribution of the seat pressure and to avoid "slipping forward". However, other settings can also be useful in individual cases.



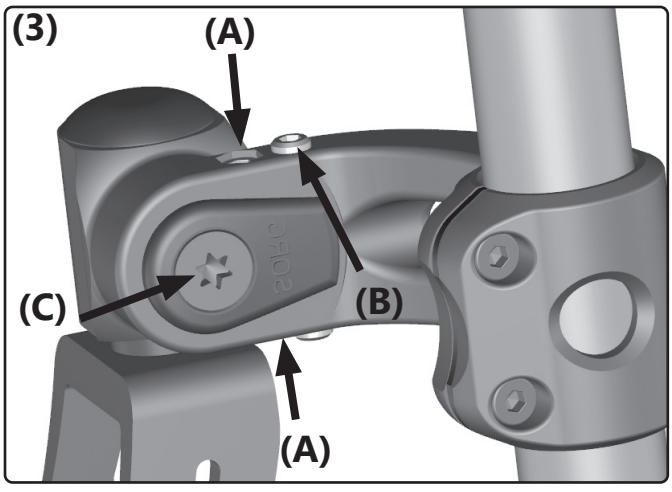
⚠ After every change to the drive wheel, the functionality of the parking brakes must be checked and the caster wheels and the wheel track must be readjusted.

- Remove the drive wheels,,
- **(1)** Remove the screw connection and the threaded sleeves on the clamping flange **(1A)** and loosen the cylinder head bolts **(1C)**,
- move the clamping flange to the desired holes **(1B)**
- attach the fitted screws with 10 Nm of torque and retighten the cylinder head bolts **(1C)**.
- put the drive wheels back into the quick-release axle.

The clamping flanges must be attached at the same height on both sides. The lateral distance between the top tires and the side panel should be as small as possible, but at least 10 mm.

3.1.4 Positioning the steering angle

The steering axis angle must be readjusted after each change to the rear and front seat height. For adjusting the steering angle:

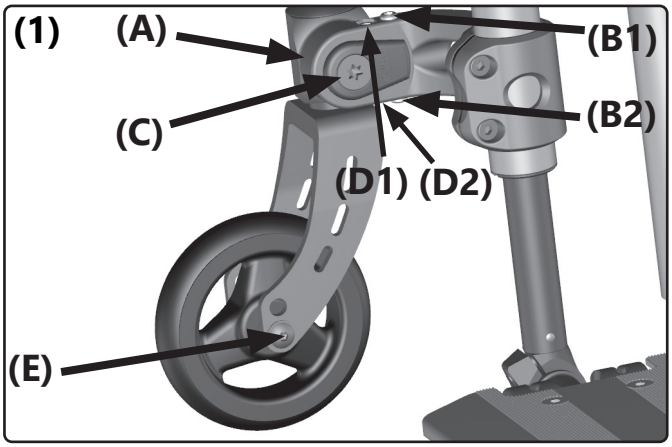


- Loosen the screws **(3A) + (3C)**
- Unscrew the threaded pins **(3B)** sufficiently to be able to readjust the steering head angle.
- Tighten the screws **(3A)** and **(3C)** so that the steering head can just be moved and set the steering head angle to 90 °.
- Carefully screw in one of the threaded pins **(3B)** until the first resistance. Then tighten the second set screw **(3B)** against it.

An incorrectly set steering axis angle can lead to caster wheel flutter and when cornering (due to the wheel caster) to obstructive "uphill and downhill driving".

3.1.5 Replacement of caster wheel adapters and caster wheels

1. Replace caster wheel adapter.
   - Remove the screws **(1C), (1B1)** and **(1B2).**
   - Loosen the threaded pins **(1D1)** and **(1D2)**
   - pull out the adapter.
   - After replacing, insert the caster wheel adapter into the adapter mount
   - Tighten the threaded pins **(1D1)** and **(1D2)** again
   - Reinstall the screws **(1C), (1B1)** and **(1B2) a**nd tighten them again.
   - Please check again the settings of the steering angle according to **chapter 3.1.4.**



2. Replace caster wheel:
   - Remove the screws **(1E),**
   - Set the new caster wheel to the desired height
   - Replace the screws **(1E)** and tighten them.

⚠ Be sure to check the functionality of the knee lever brake and the wheel track and readjust them if necessary.

3.1.6 Camber

You influence through the camber:

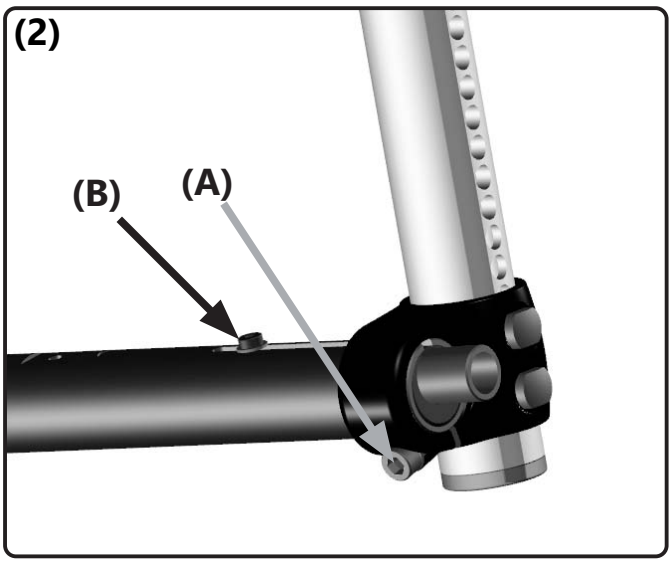
- the lateral tipping stability,
- the shoulder drive wheel position and
- the track width of the wheelchair.

To change the camber you have to order a suitable camber adapter.
The following camber adapters can be selected:

- 1°
- 3°
- 5°
- 7°

To replace, loosen screw **(2A)** and remove screw **(2B).** Replace the old camber adapter with the new camber adapter.

If you want to change the distance to the frame, first loosen on one side **(2A)** and **(2B)** and move the adapter to the desired position. Tighten the screw connections **(2A)** and **(2B)** again. Now proceed in the same way with the other side.



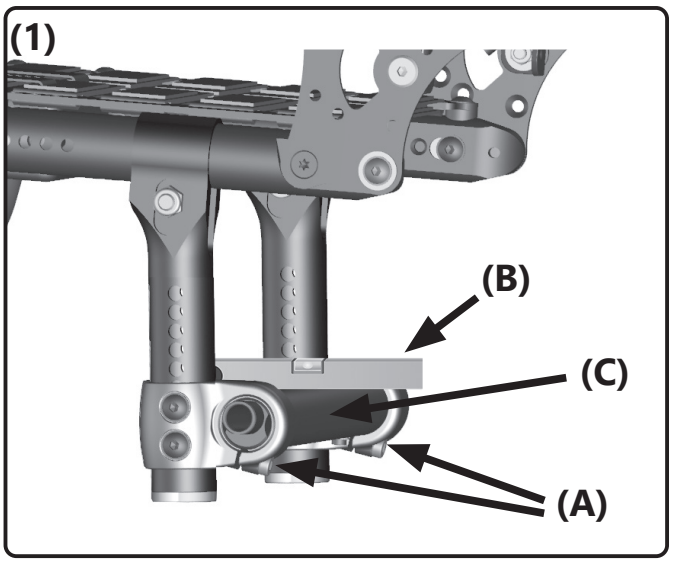
⚠ After every change to the camber adapter, it must be checked that the distance left and right to the clamping flange is the same.

Please ensure that there is sufficient distance to the side panel so that the drive wheel does not touch the side panel when it is loaded from the side.

⚠ Be sure to check the functionality of the knee lever brake as well as the wheel toe-in and the caster head angle of the caster wheels and readjust them if necessary.

3.1.7 Track compensation drive wheels

Loosen the two screws **(1A)**. Adjust your toe compensation as desired. Use a spirit level **(1B)** as an aid to make sure that the axle tube **(1C)** is in the water. Tighten the screws **(1A)** again. Check the distance between the drive wheels at the height of the wheel hub. The distance should be identical at the front and back. The distance at the back must never be less than at the front.

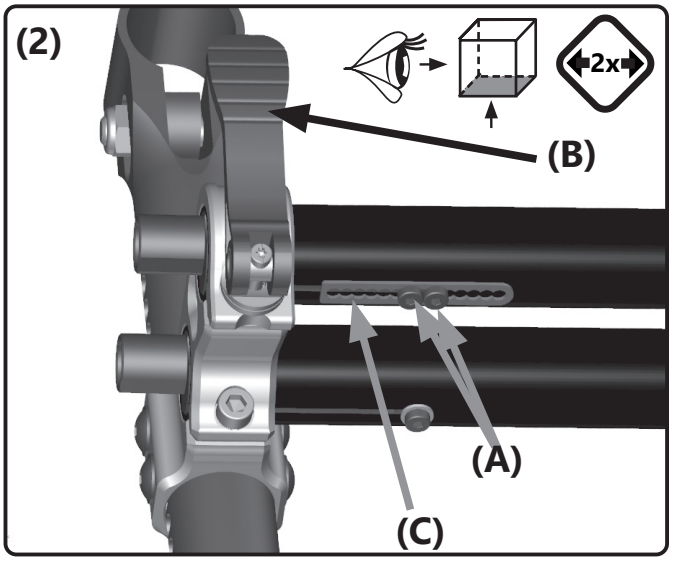


⚠ Be sure to check the functionality of the knee lever brake as well as the wheel toe-in and the steering head angle of the caster wheels and readjust them if necessary.

3.1.8 Handbike shot

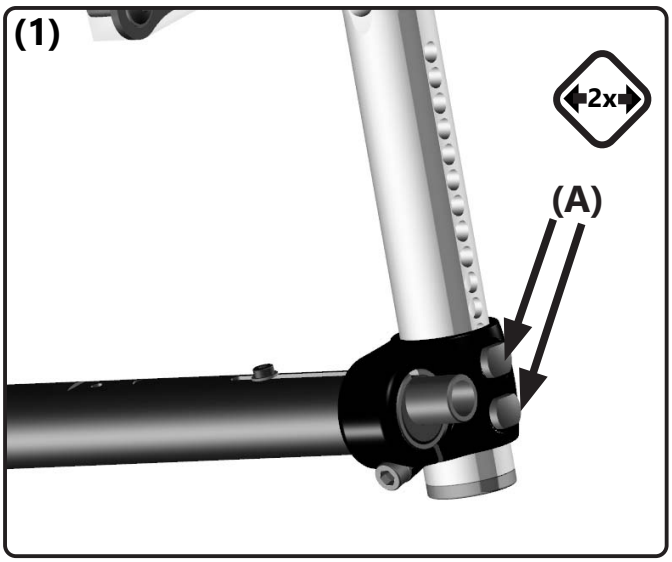
If your Airon is also used with an add-on handbike, the handbike mount must be set once in advance.

Loosen the screws **(2A)** on both sides. Open the eccentric lever **(2B)**. Pull the lintel adapter into the desired position (see chapter 3.1.6.). Move the end stop **(2C)** to the required position and tighten the screws **(2A)** again. Close the eccentric lever **(2B)**.

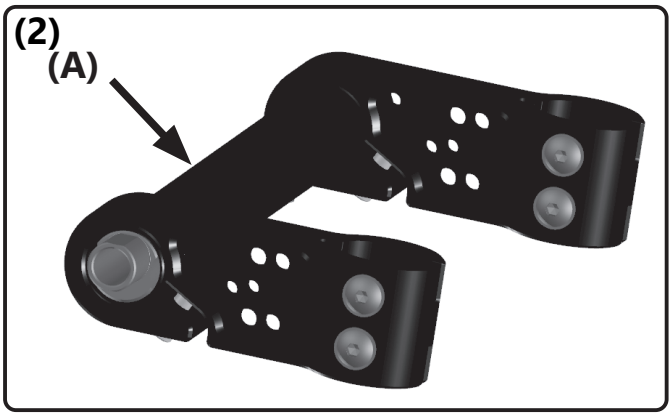


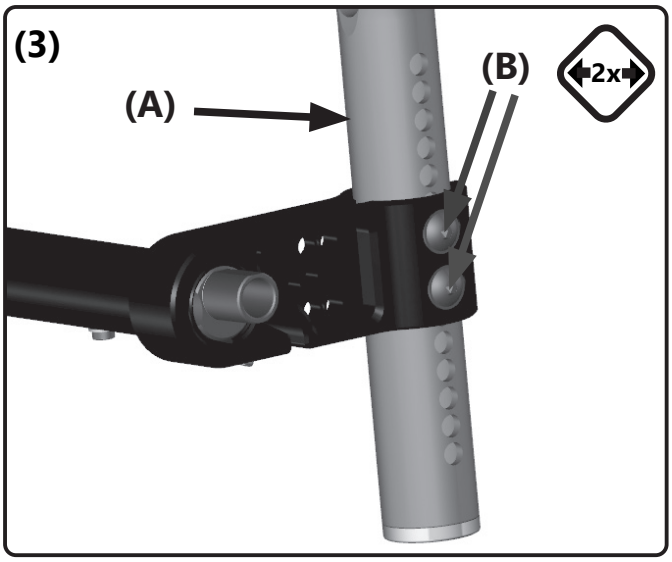
3.1.9 Wheelbase extension

Remove the drive wheels.
Loosen the two screws **(1A)** and remove the camber adapter.



Move the wheelbase extension **(2A)** to the desired position on the drive wheel mount **(3A)** on both sides. Make sure that the same holes are used on both sides of the drive wheel mount **(3A)**. Now fasten the screws **(3B)** on both sides.



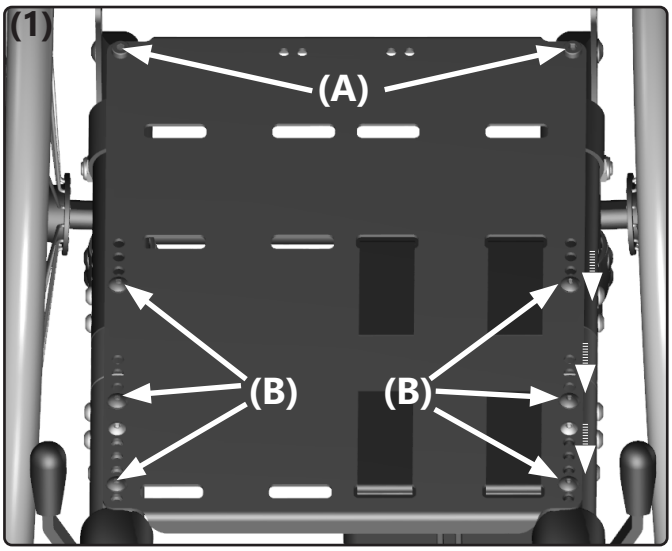


⚠ Be sure to check the functionality of the knee lever brake as well as the wheel toe-in and the caster head angle of the caster wheels and readjust them if necessary.

3.2.1 Seat depth growth

The seat depth of the seat plate and the cover strip can grow in increments of one centimeter, a total of three centimeters.

Remove the cylinder head screws **(1A)** and the lens flange screws **(1B)**. Move the seat plate or the upholstery strip and insert the removed screws in the desired hole.

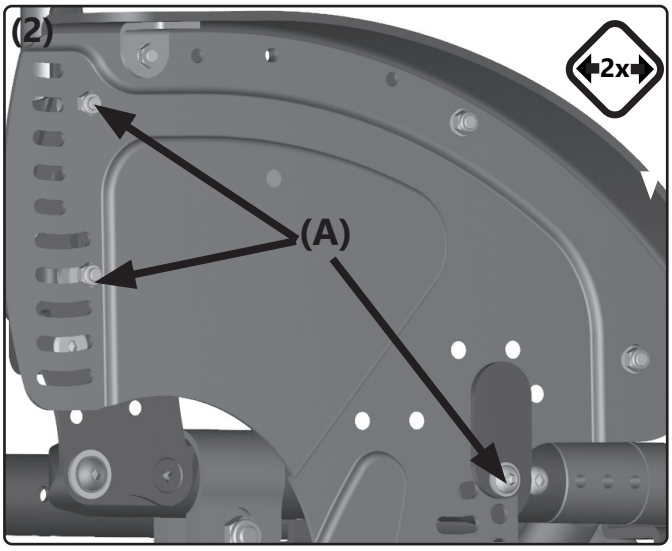


3.2.2 Seat width growth

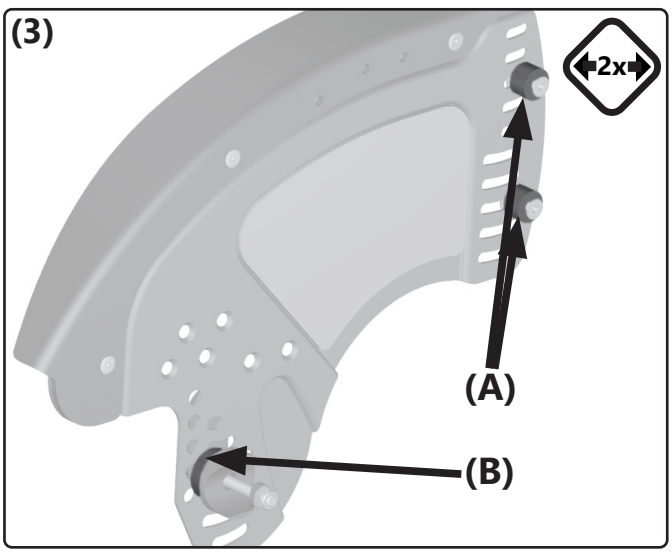
The seat width can be widened by adding distances of 1 cm per side.

Standard side panel

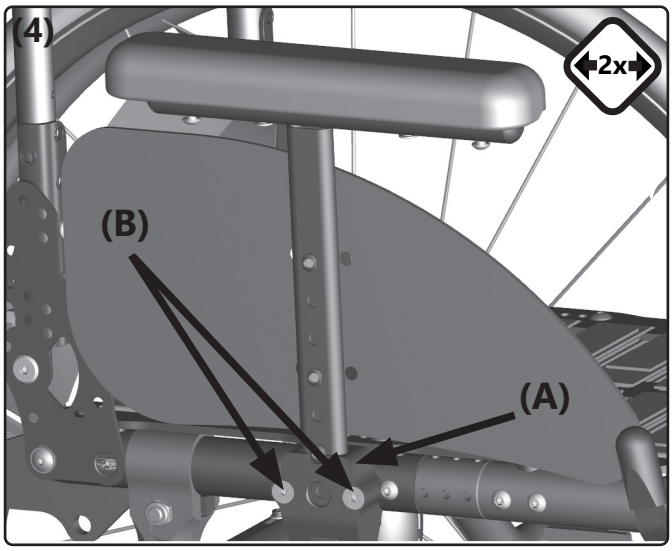
Remove the drive wheels. Now remove the side parts by loosening the screws **(2A)**. On the inside, attach the two sockets for the widening in the area of the back tubes **(3A)** and the socket **(3B)** in the area of the frame.
Do the same with both side panels.
Reattach the side panels.



Now also adjust the new position of the drive wheels (see 3.1.6.) In order to mount the drive wheels further outwards.
Reinstall the drive wheels.

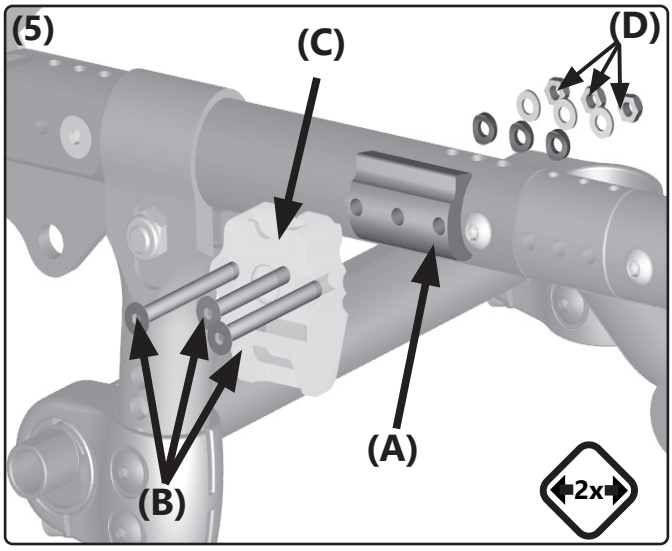


Remove the drive wheels. Now remove the mounting of the plug-in side part **(4A)** by loosening the screws **(4B)**.



Attach the widening **(5A)** to the frame and fasten it with the screws **(5B)**, the mount for the plug-in side part **(5C)** and the nuts including washers and saddle washers **(5D)**.
Do the same on both sides.
Insert the side panels again.

Now also adjust the new position of the drive wheels (see 3.1.6.) In order to mount the drive wheels further outwards.
Reinstall the drive wheels.



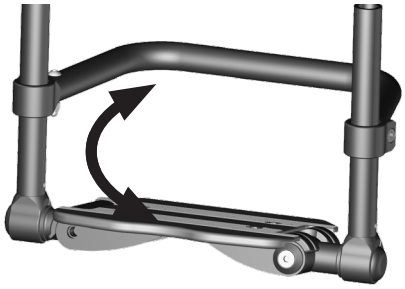
⚠ Be sure to check the functionality of the knee lever brake and the wheels.

3.3 Legrest assembly

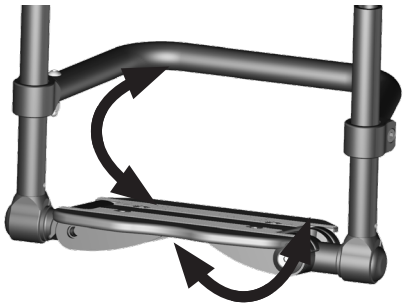
3.3.1 General information legrests

Model 1: Standard

Model 2: Can be folded up to the side



Model 3: Can be folded up to the side and turned away to the outside



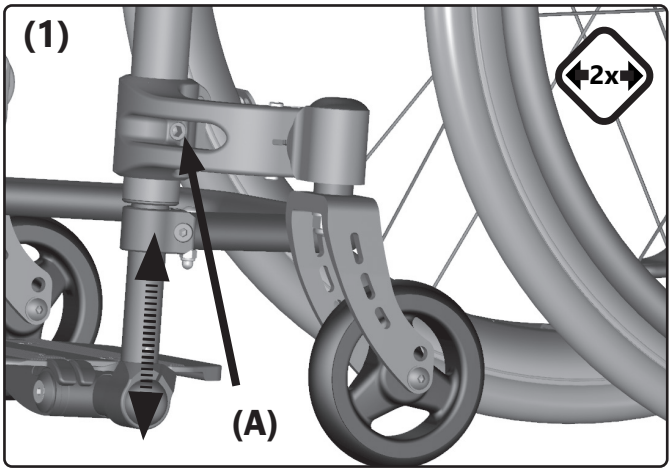
Model 4: internal mounting

Model 5: Foot stirrup

The legrest is optimally adjusted when, with the leg standing at right angles on the footplate, the entire thigh rests evenly on the seat cushion / seat molding up to a finger's breadth in front of the hollow of the knee.

3.3.2 Adjust the lower leg length

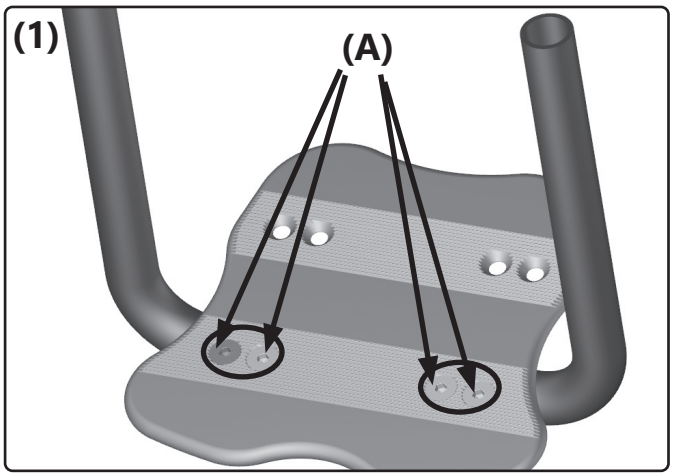
Loosen the screws **(1A)** on the caster wheel adapter mount on both sides of the chair. Move the legrest to the desired position and tighten the screws **(1A)** again.



3.3.3 Legrest standard

Changing the footplate:
To replace the footplate, please remove the screws **(1A).**
Now attach the new footplate by repeating the previous steps in reverse order.

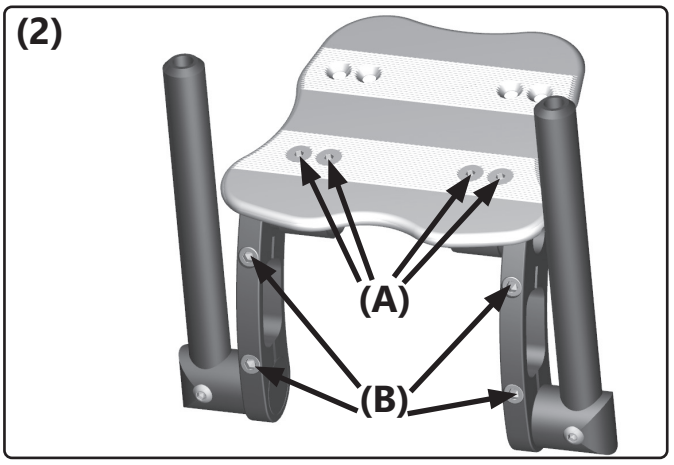
Angle adjustment:
Loosen the countersunk head screws **(1A)** and set the desired angle. Tighten the countersunk screws **(1A)** again.



3.3.4 Standard leg support for short lower leg lengths

Adjusting the position of the footplate:
Loosen the screws **(2A)** and **(2B)**. Bring the footplate into the desired position and tighten it again.

Angle adjustment:
Loosen the **(2A)** screws and adjust the angle as desired and tighten the screws **(2A)**.

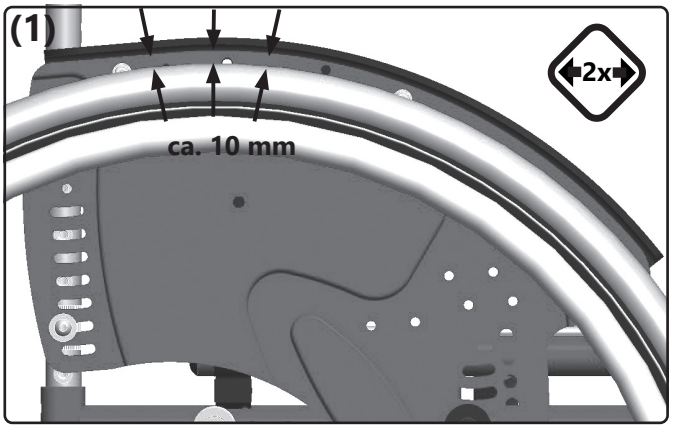


3.4 Side panels assembly

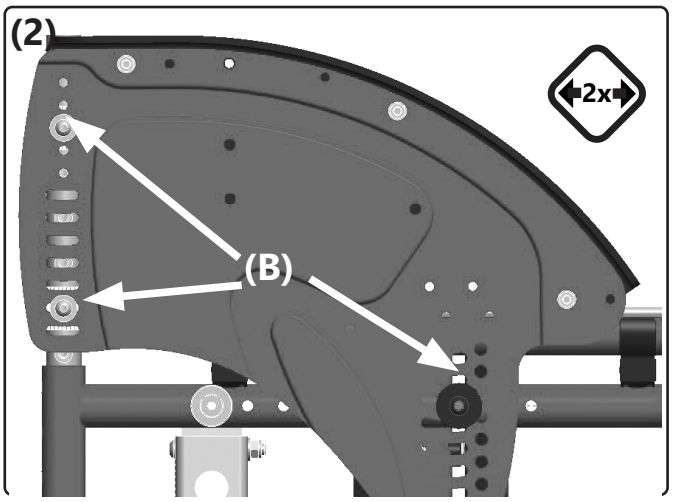
3.4.1 Adjustment of side panels

(1)
Upwards, the contour of the side panel should follow the contour of the drive wheel as long as possible, at a distance of at least 10 mm.

Higher settings can be a hindrance for active drivers when driving.



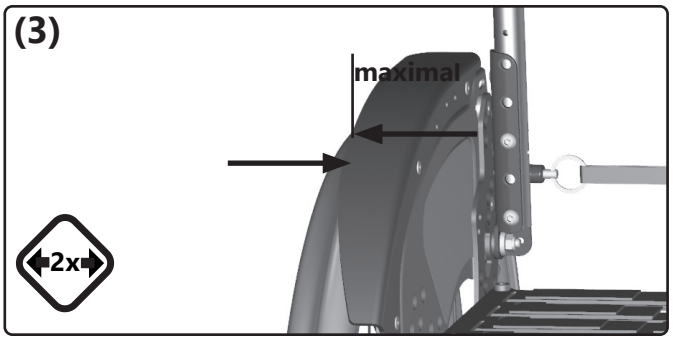
(2) To adjust the height, please remove the drive wheels. Completely remove the screw connections **(2B)** at the front and rear. Change the position of the side panel as desired, reinsert the screws and tighten them.



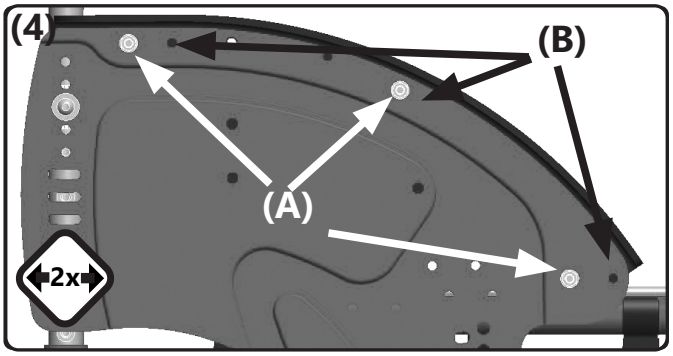
3.4.2 Clothes guard on the side panel

(3) The clothes guard is inserted into the bead on the side panel and should cover the drive wheel as far as the outside of the wheel.

(4) When moving the drive wheels to the foremost perforated plate position, the clothes guards must be placed in the alternative holes **(B)**. Remove screws **(A)**, move the clothes guard, reinsert all screws and tighten firmly.

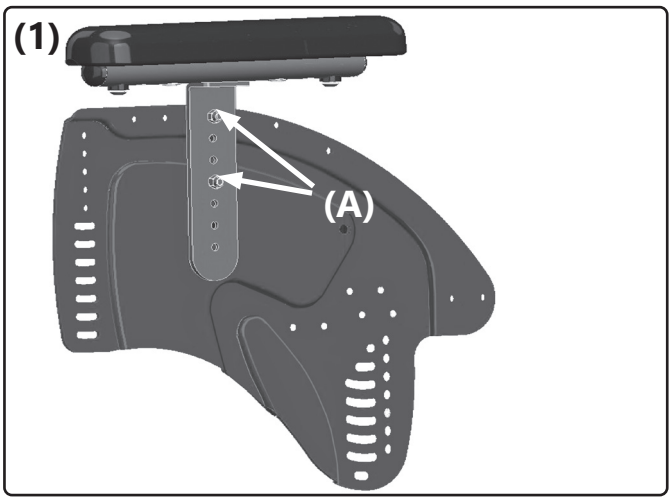


The distance between the top of the wheel and the clothes guard should be at least 10 mm so that the clothes guard does not touch the wheel when it is under load.



3.4.3 Armrest on the side panel(standard)

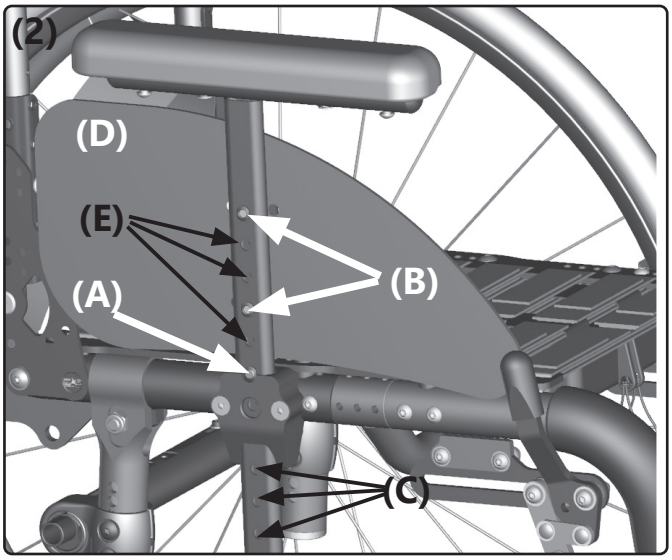
(1) To adjust the arm pads, remove the screw connection **(1A)** on both sides, bring the pads into the desired position in the holes, reinsert the screws **(1A)** and tighten them tightly.

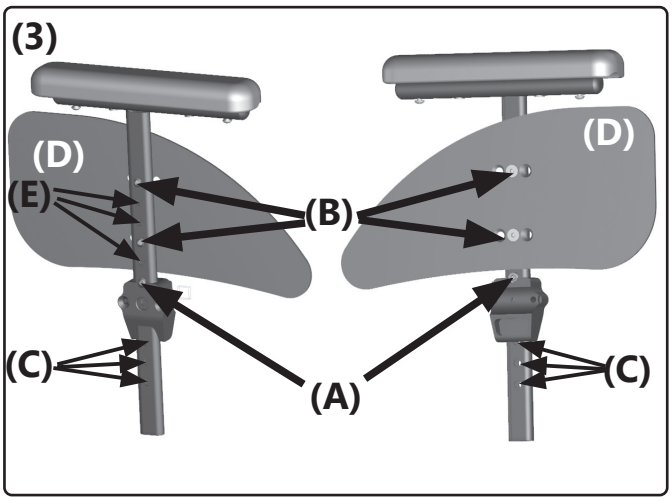


3.4.4 Height adjustment plug-in side panel

(2+3) To change the height of the plug-in side panel, remove the screw with the corresponding sleeve **(A)** and put it in a desired hole **(C)** and tighten the screw and sleeve **(A)** again.

In order to adjust the height of the side part **(D)**, loosen the screws and the corresponding sleeves **(B)** and place the side part in the desired holes **(E)**. Reattach the screws and sleeves **(B)** and tighten them.





3.5.1 General information about the brake

(1+2) Every wheelchair is equipped with two parking brakes. They consist of brake pressure bolts **(A)**, brake lever **(B)** (if necessary with an extension) and adjusting screws **(C)**.

⚠ Parking brakes are used only to lock the wheels in a rest position. They are **not** designed to slow down the wheelchair while it is in motion.

⚠ The correct functioning of the brakes can be impaired by:
- tire pressure too low,
- Wetness, dirt, snow, ice, etc.
- worn tire profile and
- Too great a distance between the brake pressure bolt and the tire.

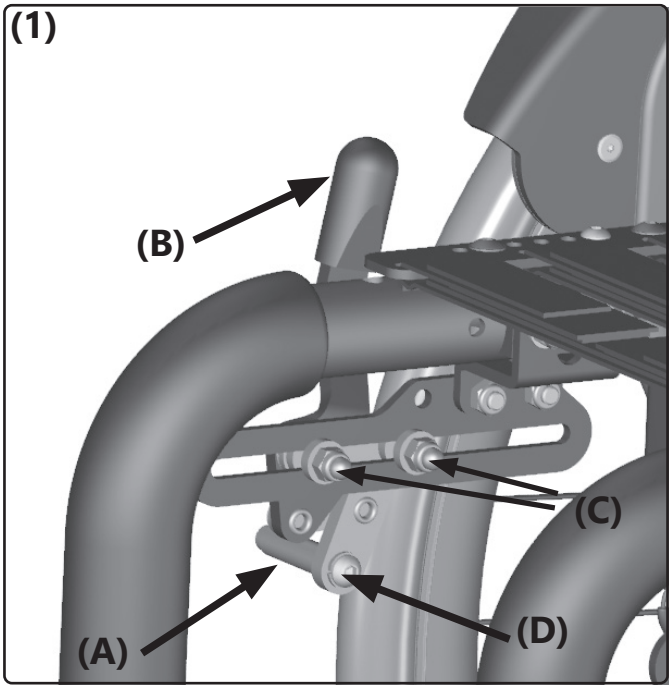
Check the fastening of the brake pressure bolts on the inside of the wheelchair at regular intervals**(D)**.

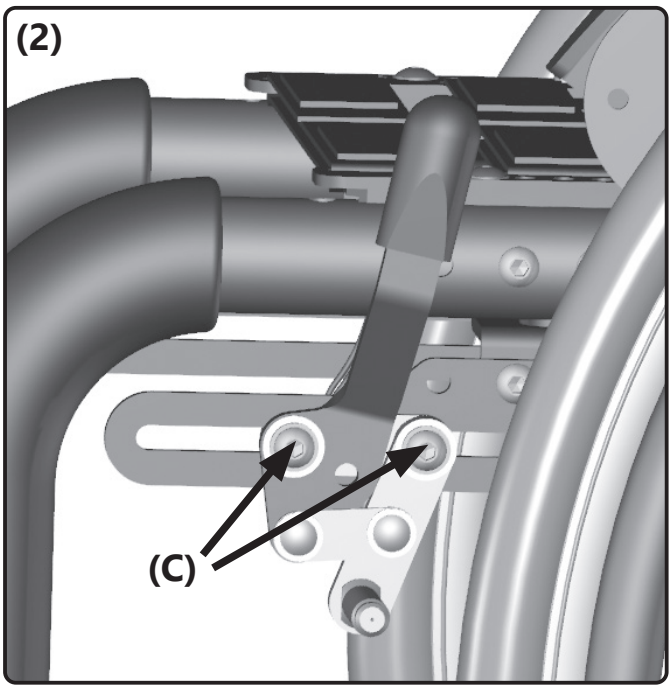
⚠ Readjust the brakes after making any changes to the drive wheels. The drive wheels of the wheelchair with occupants must not slip on a ramp with a 12% incline when the parking brake is on.

When the brake is open, the maximum distance between the brake pressure pin and the tires is determined as follows:

Standard-KLB	21 mm
Pull-to-lock-Brake	11 mm
Cable brake	6 mm

(Technical changes reserved).





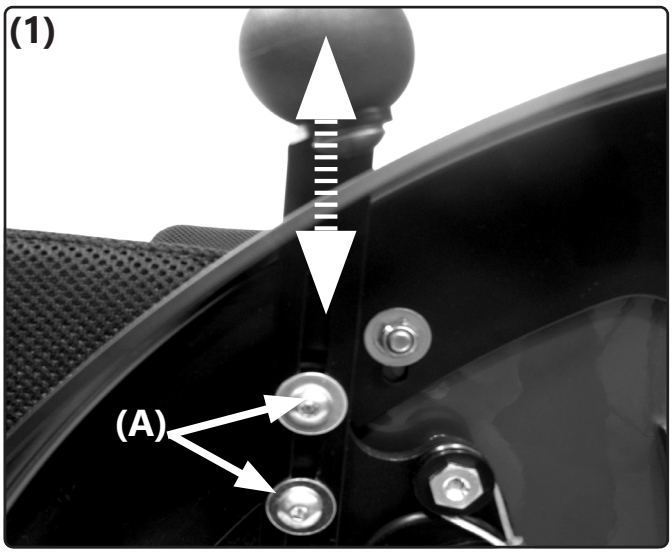
3.5.2 Standard parking brake

(2) First check the tire pressure of the drive wheels (required information on the tire casing). To adjust the brake, loosen both screws **(C)** on both sides, bring the brake body into the corresponding position and tighten the screws **(C)** again.

3.5.3 Cable brake

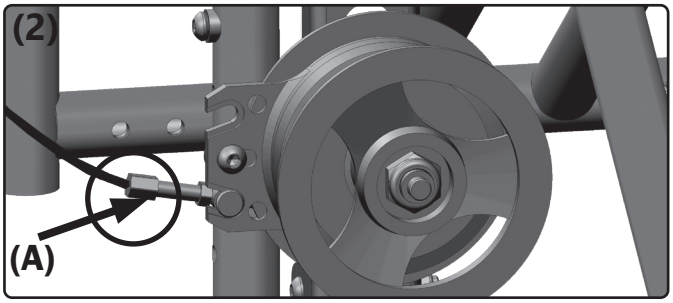
The cable brake is embedded in the side panel of the clothes guard and is operated via a cable. This must be regularly checked for functionality and readjusted if necessary. The setting on the brake cable is identical to that of the drum brake.
(1) To adjust the length of the brake lever, loosen the screws **(1A),** adjust it to the required position and tighten both screws again.

The distance between the brake pressure bolt and the tire cover must not exceed 6 mm.



3.5.4 Drum brake

In contrast to the parking brake, the drum brake is also suitable as a service brake.
(2) The drum brake is adjusted using an adjusting screw at the lower end of the brake cable **(2A).** The brake cable is (re-) tensioned by turning the adjusting screw counterclockwise.

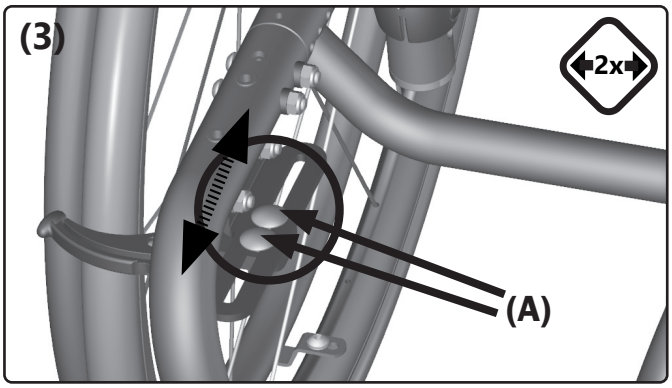


⚠ The brake shoes of the drum brake are very sensitive to dirt, lint, etc. Clean the brake body regularly with a dry brush or a hair dryer. When removing and inserting the wheels with the quick-release axle, make sure that you do not damage the brake body. That would result in a significant security risk!

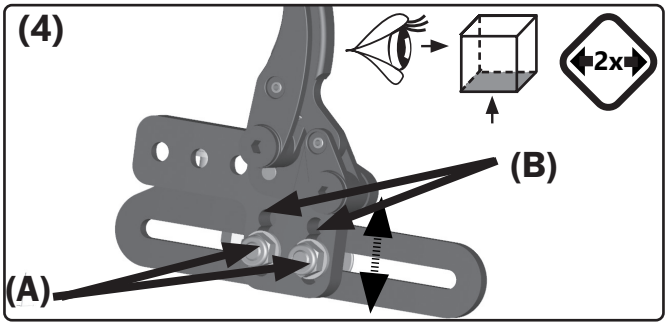
3.5.5 Compact brake

The compact brake is released by hand on the drive wheel

(3) The brake is attached and fine-tuned using two screws **(3)** on the brake mount. After loosening the screw connection, you can push the brake in the elongated hole forwards or backwards. Please check that the screws are firmly tightened again.



(4) To adjust the width of the compact brake, remove the screw connection **(A)** and then insert the screw connection into the desired hole in the spacer plate **(B).** Please make sure that you tighten the screws again on both sides.



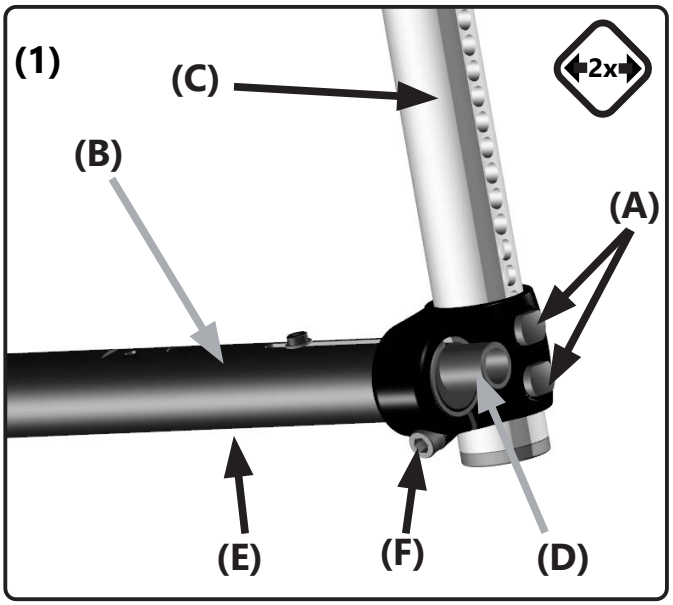
3.6 Anti-tipper assembly

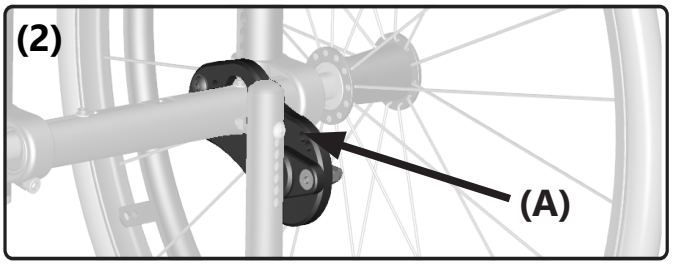
3.6.1 Installation anti-tipper swing away and pushed upwards

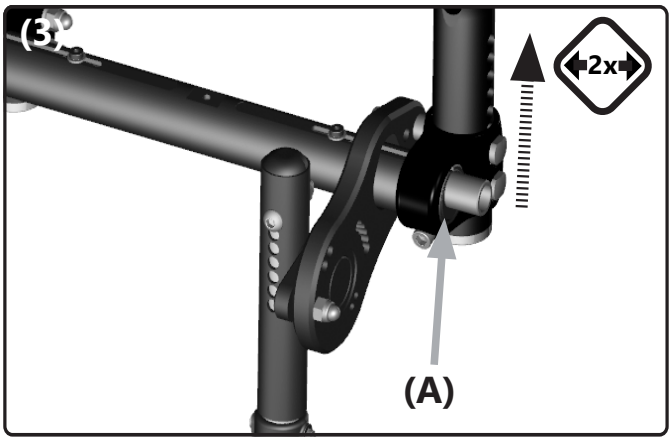
To retrofit the anti-tipper, please proceed as follows
1. Remove the drive wheels.
2. Remove the fitted screws on the clamping flanges **(1A)** on both sides and loosen the axle unit **(1B)** from the drive wheel mount **(1C)** on both sides.
3. Remove the wheel camber adapter **(1D)** by loosening the screws **(1E + 1F)**.
4. Arrange the anti-tipper mounting plate on the axle units **(2A)**.
- With the "Standard" **(1)** or "Extended wheel base" wheel mount configurations in combination with a seat width of 28-40 cm, the stand tube mount on the left is arranged on the right side and the right stand tube mount on the left side. From a seat width of 42 cm and with the "handbike" wheel mount, please arrange the tripod tube mounts true to side.

5. Now mount the clamping flange on the axle **(3A).**
6. Pull the complete axle unit onto the drive wheel mounts and fasten them again with the fitting screws with a torque of 12 Nm.
7. Now mount the wheel camber adapter.
8. Reattach the drive wheels.
9. Set the anti-tipper to the desired position.

Required tool:
Allen key size 2.5/4/5
torque wrench



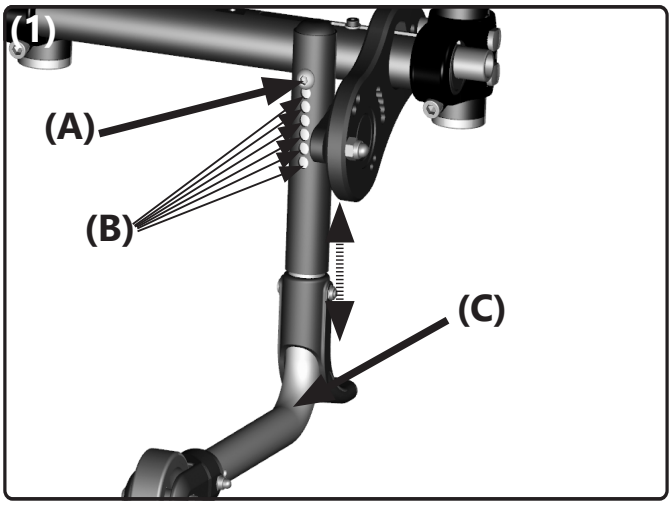




3.6.2 Length adjustment anti-tipper swing away and pushed upwards

The anti-tipper is set at the factory. If the setting needs to be changed, this can be done by relocating the stand tube:

- **(1)** Remove the screw **(1A),**
- pull the tripod tube to the desired position **(1C).**
- Insert the screw **(1A)** into a desired hole (**1B)** and tighten.



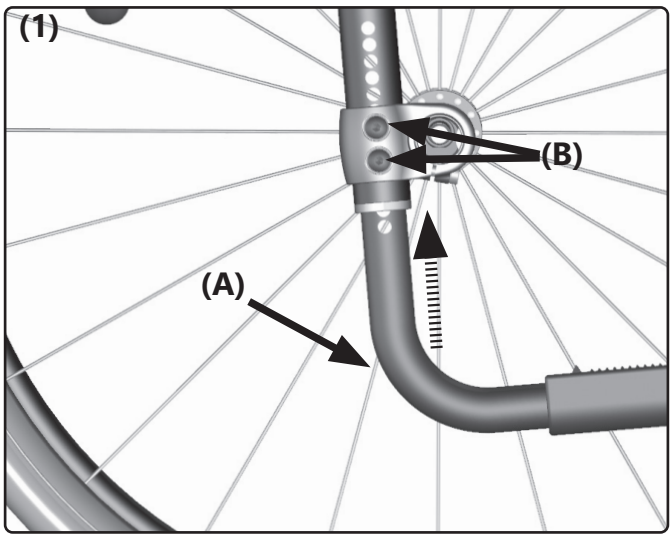
3.7 Tilt bracket assembly

3.7.1 Attachment

(1) For retrofitting a tilting bracket:

- Insert the tilt bracket **(1A)** from below into the drive wheel mounting tube and bring it to the desired height.
- screw it tight with the screws **(1B)** in the drive wheel mounting tube.

It is not possible to mount the tilt bar and anti-tipper on the same side of the frame at the same time.



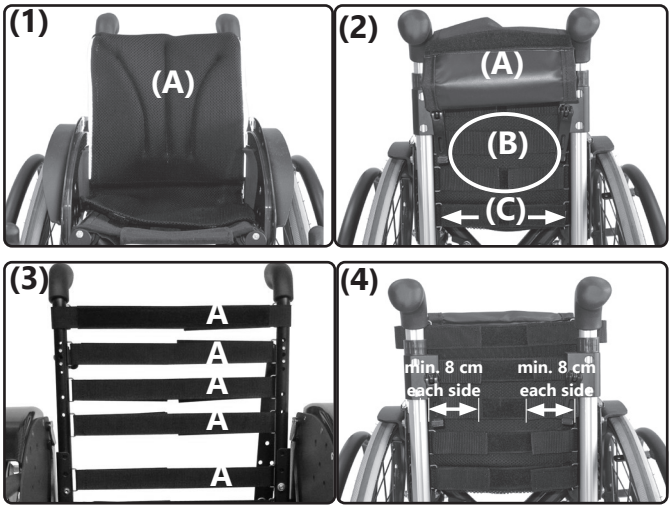
3.8 Back assembly

3.8.1 Adjustable back upholstery

The adjustable back straps allow the back to be shaped individually. If, for example, the upper straps on the back are loosely adjusted "to sag", the back is trough-shaped and thus more lateral torso stabilization for the wheelchair user.

⚠ Note that the adjustment of the back upholstery affects the center of gravity and the tipping behavior of the wheelchair.

(1) Remove the back cushion **(A)**,
(2) remove the back cover **(A)** of the Velcro fasteners **(B)**,
(3) Loosen the Velcro connection **(A)** of the straps that are to be changed,
set a new length and close the Velcro connection again.
Put the back cover **(3A)** back over the Velcro fasteners and close at the lower edge.



⚠ **(4)** The Velcro / fleece overlap must be at least 8 cm per side.

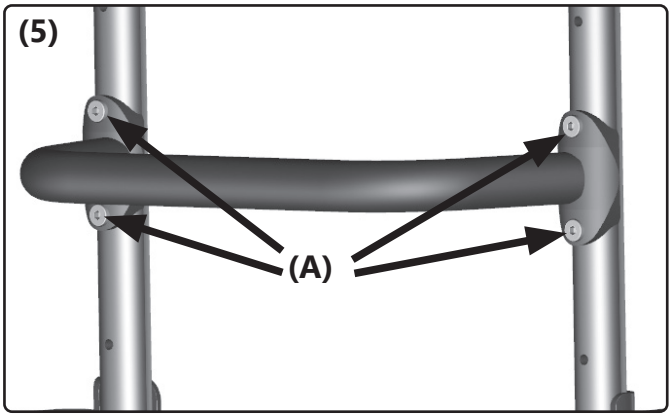
⚠ When using a stabilizing bar, the slack in the back covering must not be so great that the back comes into contact with the stabilizer bar. Risk of pressure points!

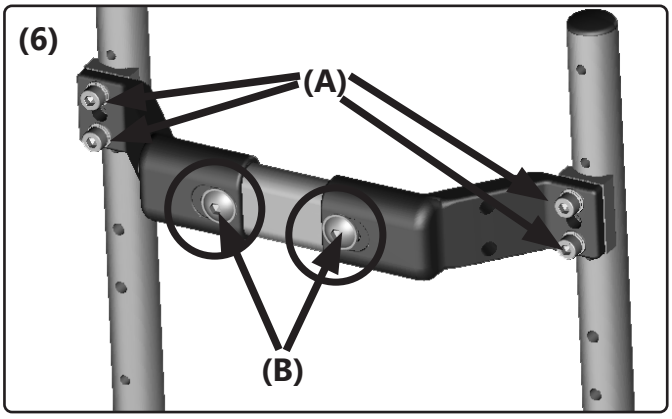
3.8.2 Stabilizer bar

If you would like to replace the back bar with a stabilizer bar, please proceed as follows:
Loosen the screws (**5A**) and remove the back bracket.
Now move the rod into the desired position and fasten the screws (**6A**) on both sides.

When replacing the stabilizer bar with a new stabilizer bar or exchanging the stabilizer bar for a back bar, please proceed in the same way.

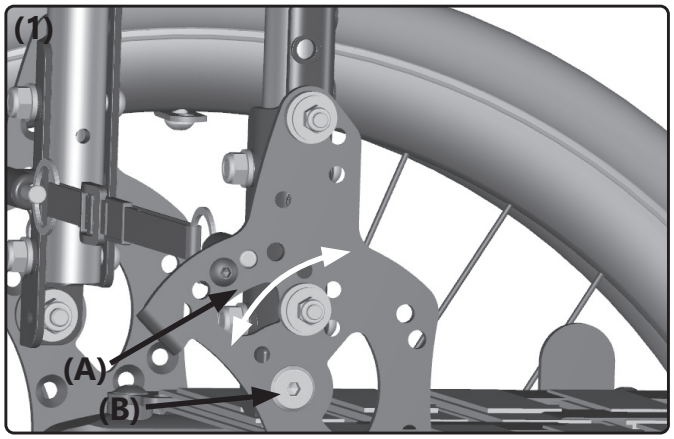
Please make sure that the M6 screws **(6B)** are attached to the inside of the milling.

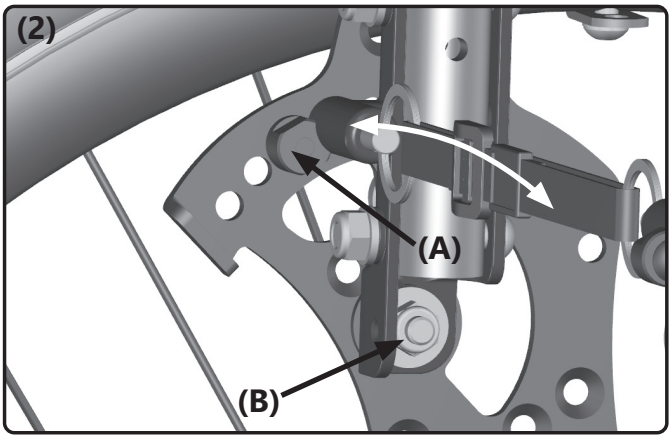




3.8.3 Adjust the back angle roughly

(1+2) To roughly adjust the angle of inclination of the backrest, remove the screw connection **(A)**, loosen the screws **(B)**, tilt the back tubes into the desired position, then insert the screws **(A)** in the new position and tighten them all again. The angle setting must be identical on the right and left. The rough back angle adjustment is made in 12 ° steps.





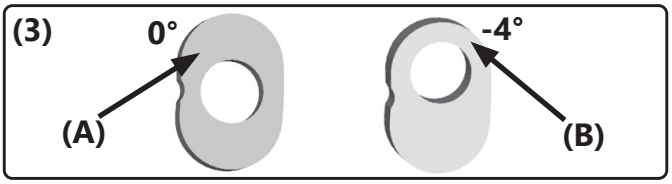
3.8.4 Fine adjustment of the back angle

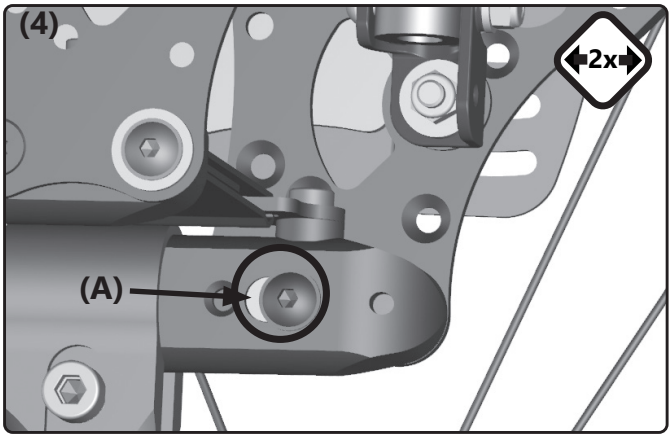
When the Airon is delivered, you have selected a level of activity when you placed your order. Depending on the level of activity, either the 0 ° insert **(3A)** or the 4 ° insert **(3B)** is inserted in the recess **(6C)**. With the help of these discs you can fine-tune the back angle in 4 ° steps. To do this, insert either 0 ° insert **(3A)** or 4 ° insert **(3B)** into the recess **(6C)**. If the insert 0 ° is inserted, the angles 78 ° / 90 ° / 102 ° / 114 ° can be set as described in chapter 3.8.3.
If the insert-4 ° is inserted with the hole facing up, the angles 82 ° / 94 ° / 106 ° / 118 ° can be set as described in chapter 3.8.3.

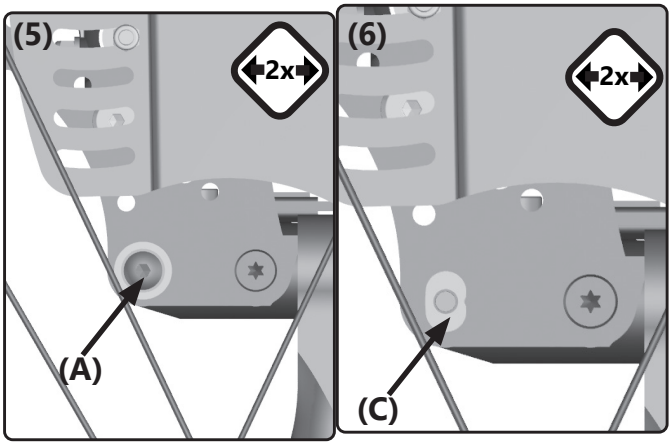
If the insert-4 ° is inserted with the hole facing down, the angles 74 ° / 86 ° / 98 ° / 110 ° can be set as described in chapter 3.8.3. You can adjust your back angle in 4 ° steps between 74 ° and 118 °.

The uninserted insert can be found screwed tight on the inside of the frame **(4 A)**

To exchange the insert, first remove the screw **(5A)** and take the insert out of the recess **(9C)**. Now insert the enclosed insert and tighten the screws again. Make sure that you set the inserts equally on both sides.

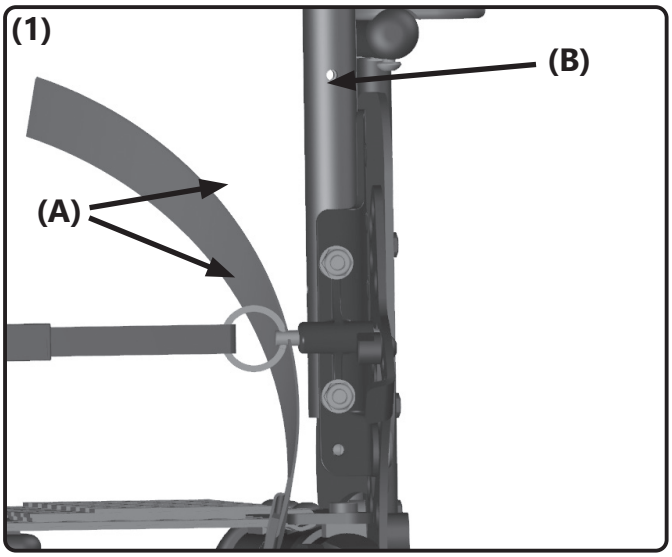






3.8.5 Adjustment of the back height

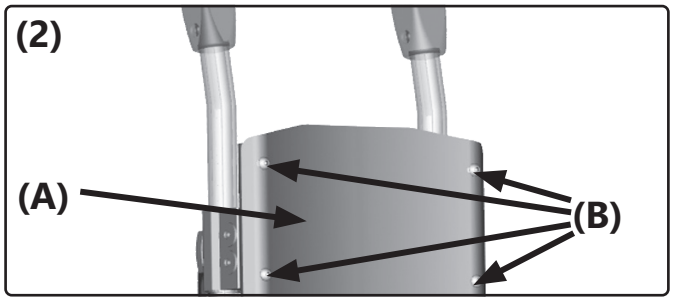
Height adjustment by 5 cm:
Remove both screws **(1A)**, move the back tube upwards onto the hole **(1B)** on the front, re-establish all screw connections and tighten firmly.



3.8.6 Replacing / removing the moulded back plate

(2) When widening the seat, you must first remove the old moulded back plate **(2A)** (or loosen the covering on one side).

- Remove the four screws **(2B)**,
- widen the wheelchair as indicated,
- screw the new bowl back **(2A)** with the screws **(2B)**.

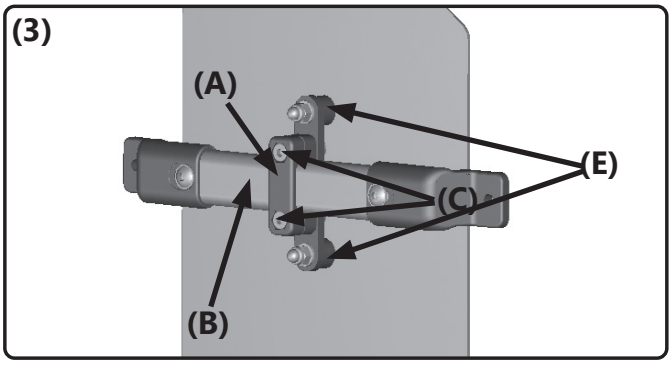


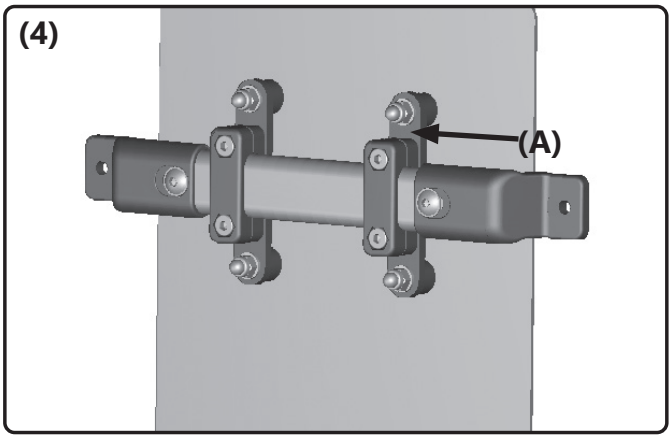
3.8.7 Back shell connection

Assembly of the back shell connection:

- Mount the clamping parts of the back shell connection **(3A)** to the profile tube of the stabilizer bar **(3B)**.
- Slide the connection bracket **(4A)** over the M6 screws **(3C)** and fix them with the M6 safety nuts.
- The clamp is fixed using the M6 screws **(3C)**.
- The specialist store must then professionally connect the self-made backrest or the seat shell to the connection bracket using the enclosed spacers **(3E)**.

From a seat width of 30 cm, two connections are screwed **(4)**. Please proceed as described above for each connection.

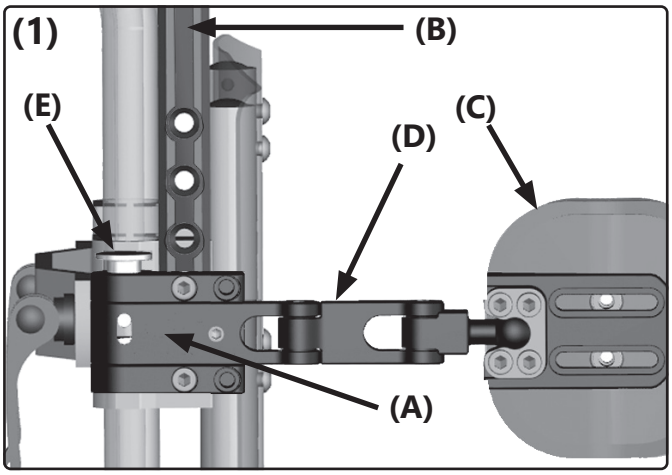




3.9.1 Nomenclature

(1) The pads are made up of the following parts:

- **(1A)** Locking hinge
- **(1B)** Connection (C-rail)
- **(1C)** Lateral support pads
- **(1D)** Pad holder
- **(1E)** Release button



3.9.2 Vertical adjustment

(2) The vertical adjustment of the pads is done on the one hand by moving the locking joint **(2A)** in the C-rail **(2B)**:

- Loosen both screws **(2C)**,
- move the locking joint **(2A),**
- and tighten the screws **(2C)** again.

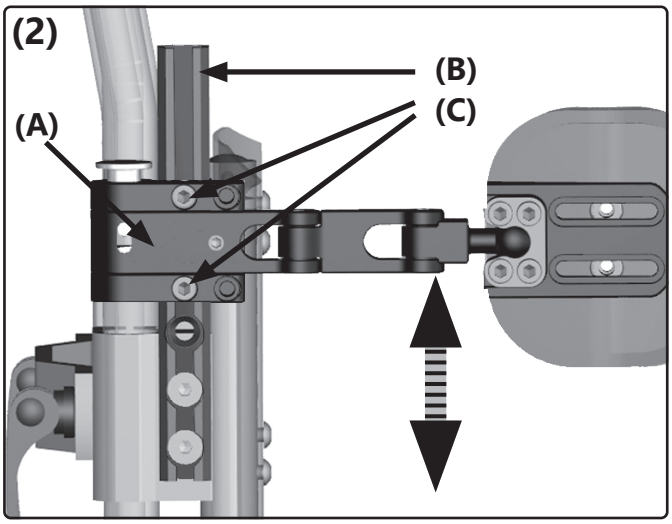
(3) The locking joint **(3A)** is clamped into the C-rail **(3D)** by connecting the metal tongue **(3B)** with the two screws **(3C)**.

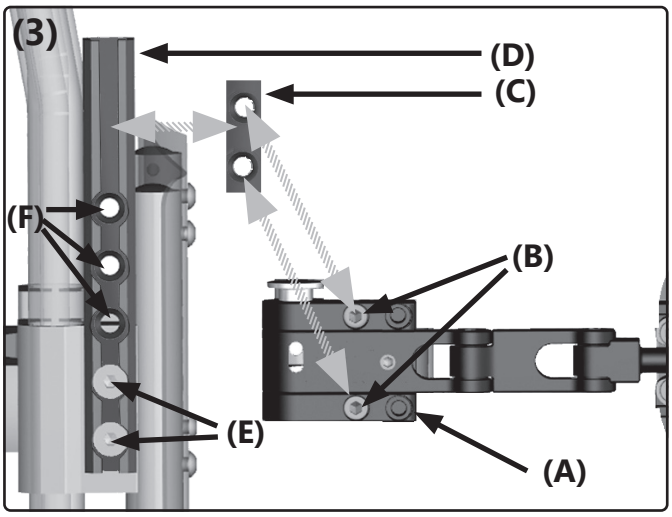
(3) On the other hand, the pads can be adjusted by moving the C-rail **(3D)** on the back tube holder:

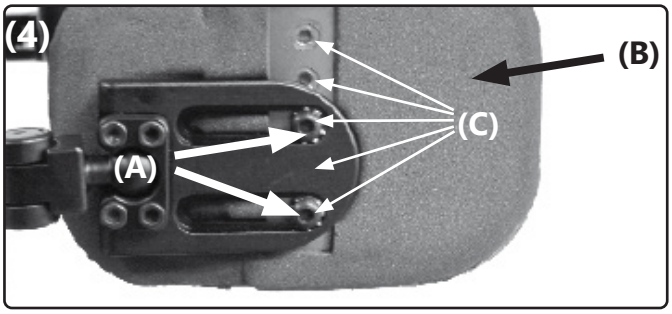
- If necessary, loosen the two screws **(3B)** and thread the pad holder **(3A)** out of the C-rail **(3D)**.
- Remove the screws **(3E)**
- and move the C-rail **(3D)** along the alternative holes **(3F)**,
- insert the screws **(3E)** again
- and screw it back tight.
- Then thread the pad holder **(3A)** into the C-rail **(3D)**,
- adjust it to the desired height
- and tighten the screws **(3B)** again.

(4) In addition, the height of the size II pads can be changed by moving the pads:

- Remove the cover,
- remove both screws **(4A)**,
- move the pad **(4B)** into the alternative holes **(4C)**,
- reinsert both screws **(4A)** and tighten them tightly.
- Then put the covers back on.







3.9.3 Horizontal setting

(1a+b) The horizontal adjustment can be done on the one hand by offsetting the locking joint.

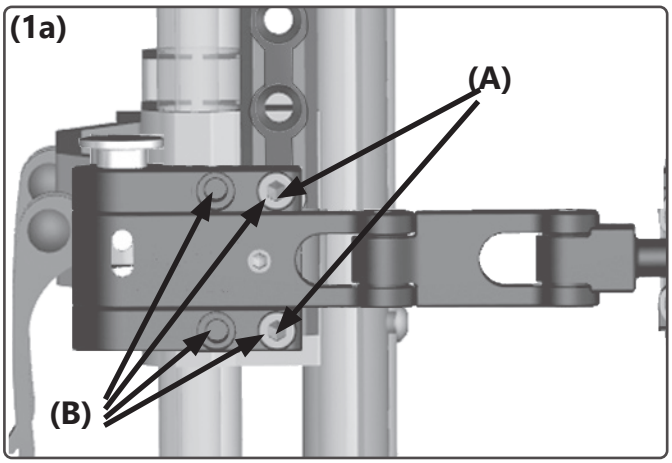
- Remove both screws **(A)**,
- put the locking joint in the alternative holes **(B)**,
- insert the screws **(A)** into the metal tongue **(picture 3C, previous page)**,
- adjust the height,
- tighten the screws **(A)** again.

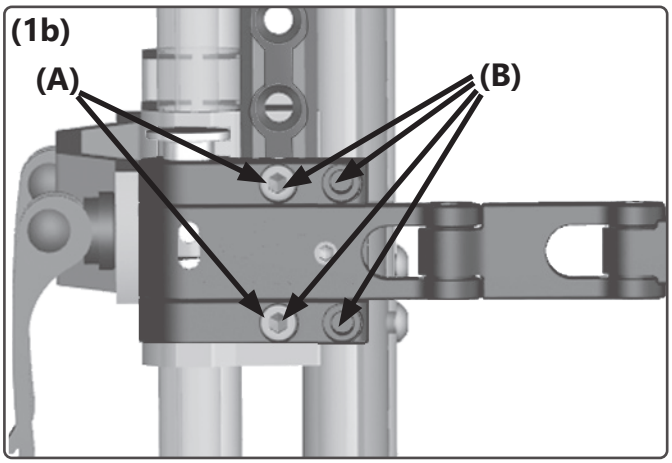
(2) On the other hand, it can be done by moving the pad:

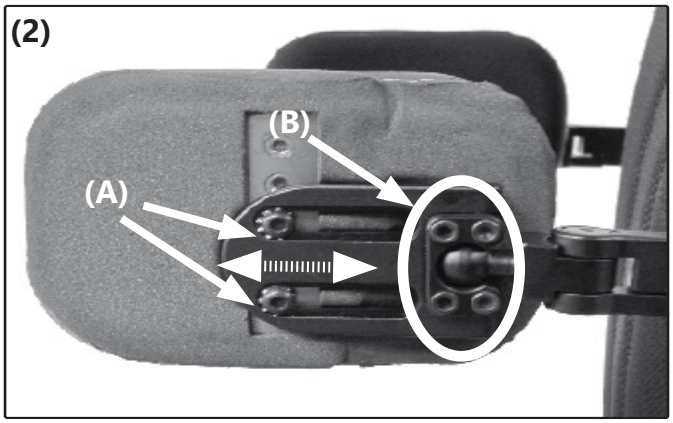
- Remove the covers,
- loosen the screws **(2A)**,
- move the cushion
- and tighten the screws **(2A)** again.
- Then put the covers back on.

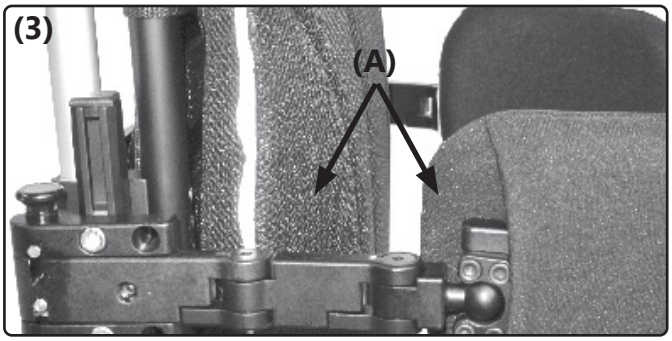
Horizontal extension
(3) Use an extension piece (spare part) for horizontal extension:

- Remove the screw **(3A)**,
- insert the extension piece
- and screw it together at both ends.









4.1 Repairs

⚠ Repairs are to be carried out by the specialist retailer.

4.2 Spare parts

Only original spare parts may be used. You can obtain these from your specialist retailer.

The spare parts list can be downloaded from www.sorgrollstuhltechnik.de or requested from us.

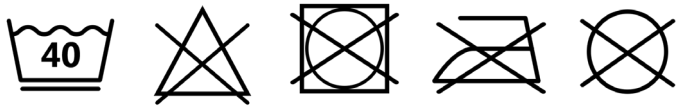
For a correct delivery of spare parts, please disclose the serial no. of your wheelchair. It is located on the label on the frame.

4.3 Cleaning

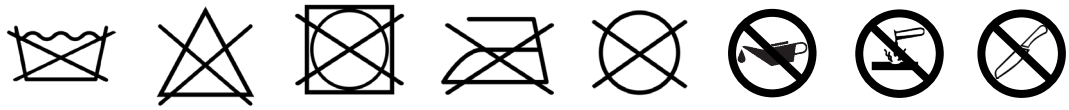
Regularly clean the wheelchair and all components with a mild household cleaning agent on a water basis and then dry it thoroughly.

In addition, clean the drive and caster wheels and remove dirt and contamination (e.g. hair, etc.) from the axles.

Wash textile parts:
Care instructions:



Wipe synthetic leather, straps and other upholstery:
Care instructions:



4.4 Disinfection

The chair must be disinfected by wiping it with a suitable disinfectant.

4.5 Storage

- Perform cleaning
- Fold the wheelchair (if available)
- Adjust the seat tilt (if available) to 90 °
- If necessary, pack removable textile parts in foil or similar
- Secure the wheelchair against rolling away and soiling
- Storage in a dry environment without aggressive environmental influences

4.6 Lifespan

The expected normal service life, depending on the intensity of use and the number of re-uses, is 5 years. For this purpose, the product must be used for its intended purpose and intended use, the specifications 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 usual, theoretical service life is not a guaranteed service life and is subject to a case-by-case examination by the specialist trade, as is the reusability.

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

The service life can also be shortened depending on the frequency of use, the environment in which it is used and how it is maintained.

The usual service life does not refer to wearing 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 warranty or guarantee.

4.7 Reuse

Before re-use, a complete inspection according to the checklist must be carried out by a qualified specialist retailer as well as complete cleaning and disinfection. We recommend replacing all upholstery and textile parts for use by a new user.

4.8 Disposal

The wheelchair may only be disposed of with the approval of the insurance provider. The wheelchair must be disposed of in accordance with the applicable national legal regulations.

4.9 Maintenance / inspection

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

Maintenance and care checklist (user)

⚠ Inadequate or neglected maintenance of the wheelchair represents a significant safety risk.

Before every journey:
Please check:

- Frame, back tubes, add-on parts and accessories for visible damage, bends, cracks or missing / loose screws,
- Wheels / thru axles on a tight fit,
- sufficient tire pressure, tire profile,
- Functionality of the brakes,
- tight fit of the angle adjustment elements / eccentric clamps,
- firm closure of the seat plate / back / foot plate,
- Functionality of the anti-tipper / seat and back straps,
- whether all previously dismantled parts are reinserted and firmly locked.

Every 3 months:
(also earlier depending on mileage)
Please check:

- Screw connections for tight fit,
- Weld seams, attachments and accessories for hidden damage, bends or cracks,
- Tire tread,
- the firm fit of third-party systems (if available).

Perform a cleaning and oil all moving parts.

⚠ If you discover any deficiencies during maintenance, please contact your specialist retailer immediately and stop using the wheelchair.

Annual inspection checklist (specialist retailer)

Copy template (available for download at www.sorgrollstuhltechnik.de/downloadportal)

Preparation:
☐ Cleaning carried out

Inspect:
☐ RFrame, back unit, attachments and accessories checked for damage, Bends, cracks and corrosion,
☐ Checked fastening screws for completeness and tight fit,
☐ caster and drive wheels as well as the associated add-on parts checked for condition, functionality and running properties,
☐ Checked spokes for tight fit and completeness,
☐ Brakes cleaned and serviced,
☐ Locking mechanisms (tripod springs of the push handles, quick-release axles, eccentric clamps, etc.) checked for functionality,
☐ Anti-tipper checked for tight fit and functionality.

Lubrication:
☐ Moving parts and bearings are oiled

Final check:
☐ Functional check of all mechanical adjustment devices carried out

5 Technical specifications

5.1 Data and measurements

Airon

Model: Airon
Type: 792
Aid directory number: 18.50.03.6018

All dimensions ± 5%

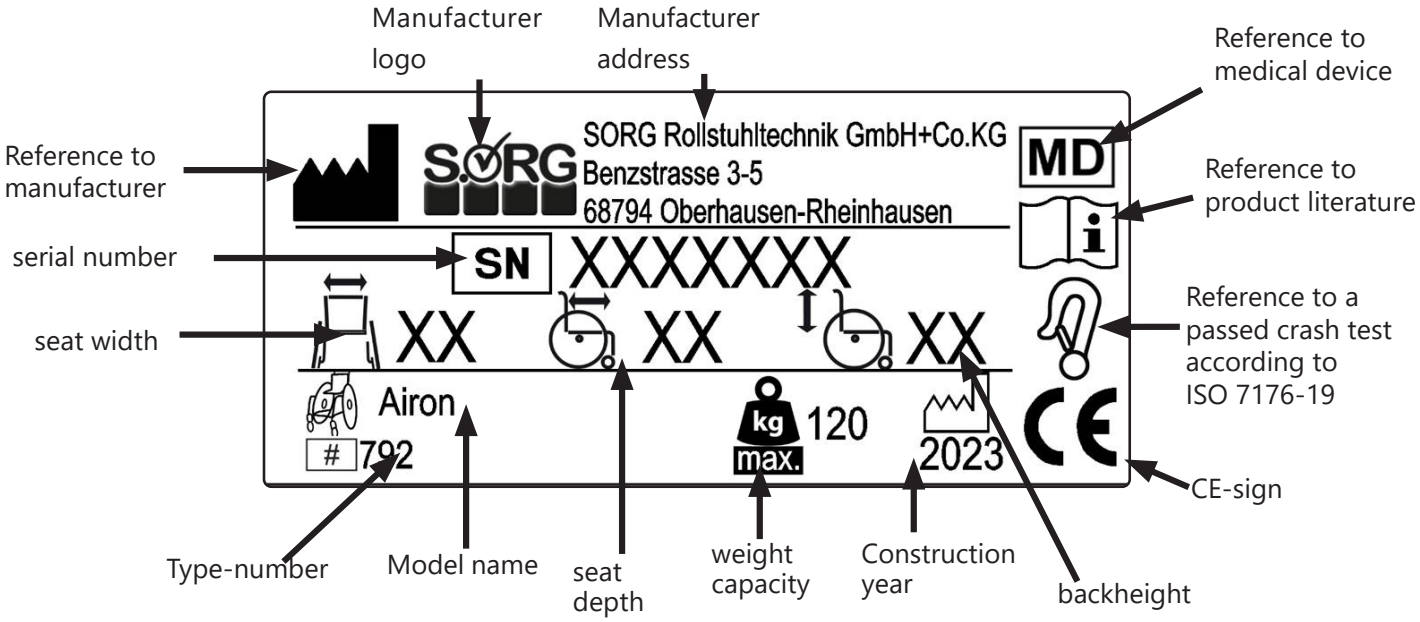
Title		Measurement	Comment
Seat width (SW) in 20 mm steps		280-500 mm	grows wit the user 20 mm from each seat width
Seat depth (SD) in 20-mm-steps		320-500 mm	3 x 100 mm growing with the user from every seat width
Backheight (BH) in 50-mm-steps		250-500 mm	
Upper edge seat to upper edge footplate		300-325 mm 355-520 mm	The lower leg length results from the distance from: upper edge seat to upper edge footplate PLUS thickness of the seat cushion
Back angle	74°-118°		depending on the equipment
Lower leg length	190-520 mm		depending on the equipment
Seat angle	0 - 10°		
Frame length 1	SD 32-38	480 mm	pure frame length measured without push handles, molded back unit, wheels or footplate
Frame length 2	SD 40-46	600 mm	
Frame length 3	SD 48-50	660 mm	
ETRTO wheel size 22“		25 - 489	Commercially available pneumatic tires in sizes 1 "(25.4mm), 1 3/8" (35mm) - sizes 355 mm (20 "), 451 mm (22"), 540 mm, (24 "). All solid tires in the mentioned dimensions
ETRTO wheel size 24“		25 - 540	
ETRTO wheel size 25“		25 - 559	
hand rim size	at 22“	Ø max. 481 mm	
hand rim size	at 24“	Ø max. 538 mm	
hand rim size	at 25“	Ø 565 mm	
Diameter hand rim		Ø 19 mm	Pipe diameter
camber		1°, 3°, 5°, 7°	With drum brake wheels
seat height (SH) front	min.	420 mm	The seat heights are measured from the top edge of the seat to the floor, WITHOUT the seat cushion
seat height (SH) front	max.	520 mm	
seat height (SH) back	min.	375 mm	
seat height (SH) back	max.	480 mm	
Width wheelchair absolutely	min.	SW + 190 mm	With the smallest or largest wheel camber
	max.	SW + 350 mm	
Length wheelchair absolutely	min.	min. 835 mm	Correspondingly longer with outdoor-front end.
	max.	max. 970 mm	
Height wheelchair absolutely	with standard push handles	min. 750 mm max. 1120 mm	
	with height adjustable push handles	max. 1055 mm max. 1320 mm	
Permissible incline		12,3% = 7°	
Permissible slope		12,3% = 7°	
Security against tipping		12,3% = 7°	
Turning circle		approx. 1000 mm	depending on the wheelchair size
load capacity (max.)/ Weight test dummy		120 kg	
Empty weight, roadworthy 10.9 kg for:	Frame SW / SD 32/32, drive wheels 22 ", caster wheels 4" PU, continuous leg rests, seat and back upholstery, side panels		
Individual weights	drive wheels	0,97 – 2 kg	Depending on the size and equipment
	frame	8 kg	
Tyres	Commercially available pneumatic tires, sizes 1 ", 1 3/8" or solid (same dimensions), tire inflation pressure usually 3-10 bar		
Service life	3 years		with not excessive use
Lifespan	5 years		
Normative requirements	The wheelchair meets the requirements of ISO 7176-8 and the requirements against ignition		

5.2 Meaning of the labels

The meaning of the individual labels results directly from the respective text at the relevant point.

If the label is damaged or lost, a new label can be obtained from SORG Rollstuhltechnik.

Label:



5.3 Declaration of Conformity

SORG Rollstuhltechnik declares that the Airon product is a class 1 device and that it complies with the relevant provisions of the EU regulation (EU) 2017/745 on medical products.

This was verified by a conformity assessment procedure in accordance with the provisions for medical products.

CE

This declaration loses its validity if changes are made to the product that have not been approved by SORG Rollstuhltechnik .

6 Notes

Service record Airon

company stamp

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