



CE

GB

## OPERATING MANUAL

XR, MODEL 1.911

**MEYRA<sup>®</sup>**  
**ORTOPEDIA**  
We move people.

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# INTRODUCTION

We thank you for the confidence you have placed in our company by choosing a wheelchair from this series.

The *model 1.911*, fulfils the wish for mobility and more independence by way of a new styling of the proven MEYRA-Ortopedia technology.

With all equipment and their accessories the wheelchair offers die respective adaptation to your disability.

Like any other vehicle, a wheelchair is a technical aid. It requires explanation, a little care and holds dangers when used improperly. The correct handling must therefore be learned.


This manual is to help you get accustomed to the handling of the wheelchair as well as to prevent accidents.

 **Note:**

Please note that the illustrated equipment variants can deviate from your model.

We have therefore also listed chapters with options that might not be applicable for your vehicle.

**Attention:**

-  Read and observe the following
- documentation belonging to the wheelchair before first operation:
    - this operating manual,
    - the safety and general handling instructions < *Mechanical wheelchairs* >.

 **Note:**

Children and juveniles have to read the documentation belonging to the wheelchair together with their parents respectively a supervisor or attendant before first use.

## ACCEPTANCE

All products are checked for faults in the factory and packed in special boxes.

 **Note:**

However, we request that you check the vehicle for possible transport damage immediately on receipt – preferably in the presence of the carrier.


 **Note:**


The packaging of the wheelchair should be stored for a further transport that might become necessary.


## ADJUSTMENT

Our specialist workshop supplies your wheelchair ready for use and adjusted to suit your special requirements.

 **Note:**

 Retrospective adjustments should be carried out solely by the specialist dealer!

 We recommend a regular control if the wheelchair adjustment in order to ensure a long-term optimal provision even with changing illness/handicap patterns of the user. Especially for children and juveniles an adjustment every 6 months is recommendable.

 The tools required for adjustments and maintenance is listed under chapter < *Technical Data* >.

## HANDLING THE WHEELCHAIR

### Specifications

The active wheelchair, **model 1.911** was developed for juveniles and adults. Two frames are available:

- midi,
- maxi.

The wheelchair solely serves to transport one person in the seat and not as a hauling aid, transporters or similar.

## Use

Through its constructive advantages the wheelchair can universally be implemented on hard surfaces and therefore an allround-wheelchair:

- for indoors (e.g. apartment, day care),
- outdoors (e.g. in parks),
- as a companion on tours (e.g. in a bus or train).

The wheelchair offers manifold adjustment possibilities to individual vital statistics.

The wheelchair should be adapted to your needs by a specialist dealer before the first use. The adaptation will take into account the driving experience, the physical limits of the user and the main place of use of the wheelchair.

### **Attention:**

- ! Always have adaptation and adjustment work carried out by a specialist dealer.

## Auxiliary drives

Before attaching auxiliary drives the following notes have to be considered:

### **Attention:**

- ! Attachment of auxiliary drives may
  - only be done on wheelchair models cleared for these.
- The list of wheelchair models cleared for auxiliary drives can be acquired at any authorised dealer.

## Driving

Alignment of the driving behaviour and the personal abilities is to be carried out together with your specialist dealer or therapist and is achieved after a short acquaintance period, test drive.

### **Attention:**

- ! Drive with extreme caution during
  - these first trips!

# OVERVIEW

## Model 1.911

The overview shows the most important components of the wheelchair.



- 1 Back support
- 2 Side element
- 3 Seat belt/seat cushion
- 4 Footplate
- 5 Steering wheel
- 6 Drive wheel
- 7 Quick release axle

- 8 Push handle
- 9 Pressure brakes
- 10 Handrims

# BRAKE

By locking the brakes the wheelchair is secured against unintentional rolling off (parking brake).

The locking brake belongs to the most important safety features of a wheelchair and is available as a pressure brake (1).

## Attention:

- ! Please observe the maintenance instructions as well as instructions in the section < *General safety instructions* > and < *Brakes* > in the safety instructions < *Mechanical wheelchairs* >.
- The wheelchair loaded with the user may not let itself be pushed in with the brakes engaged.
- In order to prevent an unintentional curve while braking the wheelchair on slopes, both brakes are to be activated simultaneously.
  - Depending on the inclination of the road a sideward tilting has to be reckoned with.
- Do not support the body on the lateral brake levers.
- The brake performance reduces with
  - tyre profile is worn
  - tyre pressure is too low
  - tyres are wet.



## Attention:

- ! Arrange an immediate repair of the brakes by your specialist workshop if the braking performance reduces.
- Do not park wheelchairs with PU wheels with applied pressure brakes. – Deformations in the running surface may remain.
- If possible propel the wheelchair over the handrims. – Perhaps danger of jamming in the area of the brake!

## Pressure Brake

A metered braking from driving speed (operating brake) is possible with the brake levers (1) of the pressure brakes.

### Service brake

Press the two brake levers evenly only slightly to the front, this brakes the wheelchair in a metered fashion.

### Locking the pressure brakes

To secure the wheelchair against any unintentional rolling, press both brake levers down all the way (2).

 **Note:**

It should not be possible to push the wheelchair forward when both brakes are locked.

### Releasing the pressure brakes

Pull both brake levers completely upward (1).



## CALF STRAP

The calf strap (1) prevents the feet from sliding off of the footplates.

- For this the calf belt clips (2) are pressed onto the front frame tubes and adjusted to the corresponding length with the velcro strap.

The calf strap (3) is removed by pulling off the calf strap clips (2).

### Attention:

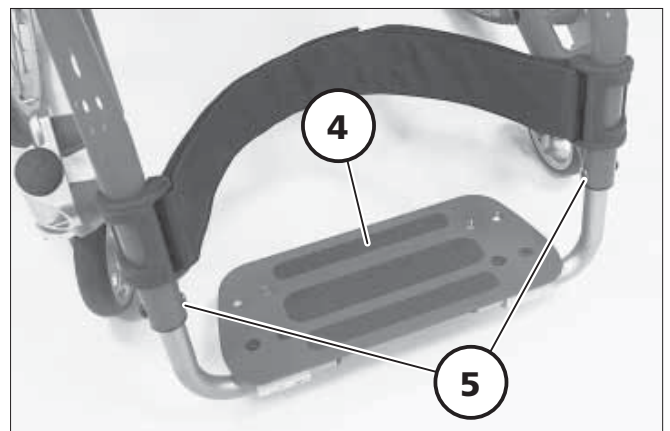
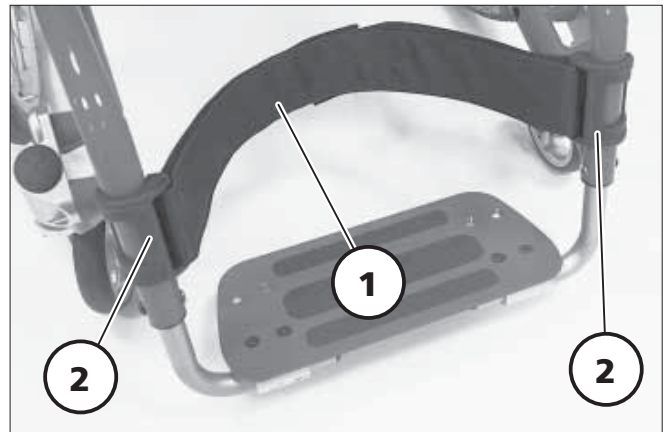
- ! Do not drive without the calf strap!

## FOOT PLATE

A footplate is available (fig. 4) that can be adjusted in height, angle and depth to the individual requirements.

### Adjusting the height of the footplate

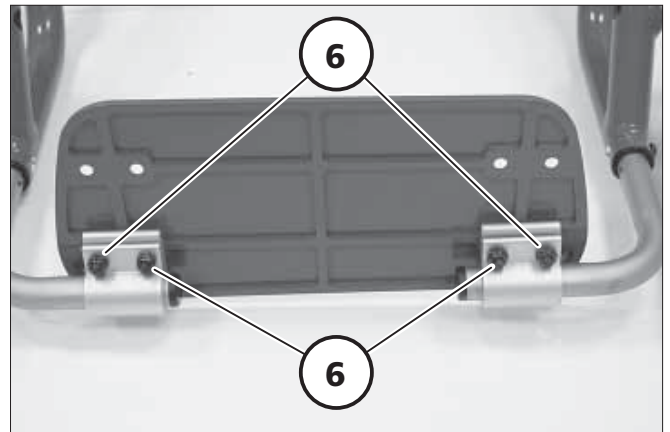
- Screw out the attachment screws (5) on both sides.
- Position the footplate (4) accordingly in the desired height.
- Reassemble the attachment screws (2).



## Adjusting the angle of the footplates

The footplate can be steplessly adjusted in angle.

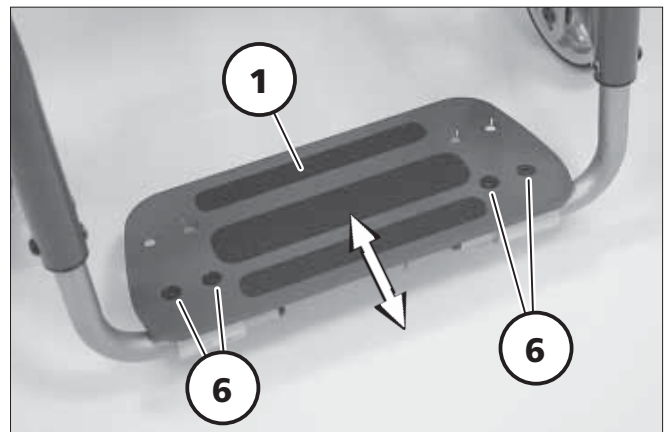
- Loosen the screws (6).
- Press the footplate in to the desired angle. – In doing so observe the ground clearance.
- Retighten the screws (6).



## Adjusting the depth of the footplates

The footplate can be repositioned in depth for further positions or turned by 180°.

- Dismantle the screwed connections (6).
- Reposition the footplate in depth into the corresponding hole of the footplate bracket.
- Reassemble the screwed connections (6).
- In doing so adjust the angle of the footplate (1).



# ARM SUPPORTS

The arm supports (1) serve at the same time as arm support, clothes guard and wind guard.

## Attention:

- ! No not grab between the frame and arm support. – Danger of squashing!
- Do not lift the wheelchair using the side elements.
- The wheelchair should only be used with the arm supports assembled!

## Swivelling up the arm support

- Pull the arm support with a little forward pressure out of the bracket (clamping mechanism) and swivel it upwards (2).

## Attention:

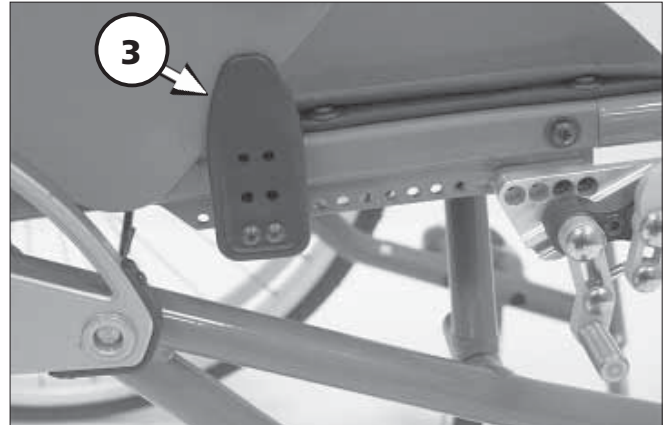
- ! Removed side elements must be carefully replaced before the wheelchair is used again!

## Inserting the arm support

- If necessary clamp the arm support with a little pressure as far as possible into the arm support bracket (3).

## Note:

Check the correct clamping of the arm supports.



## Swivelling the arm support inward

The arm supports must be swivelled in front of the back support (4) in order to be folded forward (5).

- Pull the arm support with a little pressure forward out of the bracket (clamping mechanism) and swivel it inward in front of the back support (4).

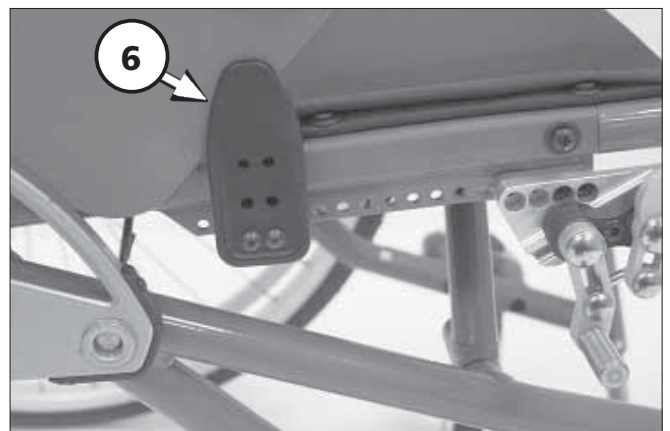


## Inserting the arm support

- Swivel the arm support outward and clamp with a little pressure as far as possible into the arm support bracket (6).

### **Note:**

Check the correct clamping of the arm supports.



## Adjusting the arm support to the wheel circumference

The distance X to the arm support running parallel to the wheel diameter (X) is to be aligned to the selected wheel position.

### Attention:

- ! The distance X between the driving wheel and the arm support should be as small as possible (approx. 1 cm). – Danger of crushing!
- Remove drive wheel (see Drive wheels section).
- Dismantle the screwed connections (1).
- Position the arm support bracket (2) to the equalising wheel circumference.
- Assemble screw connections (1).

The arm support can be adjusted in height at the back support.

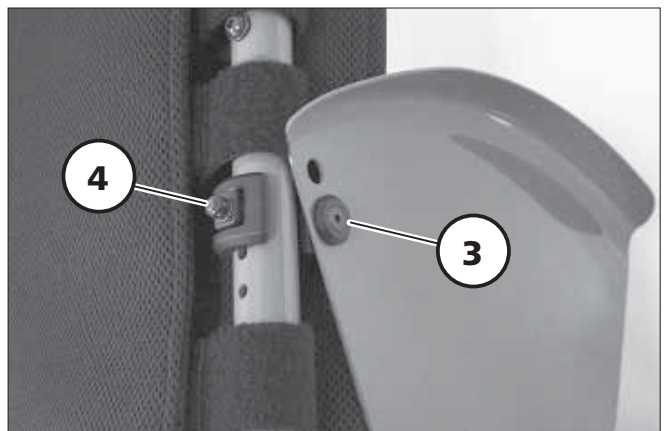
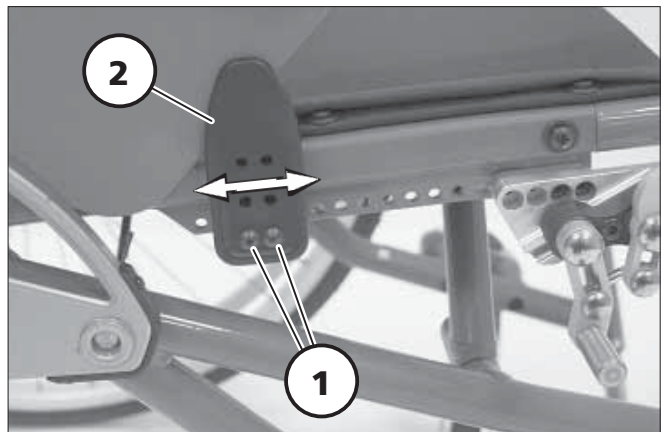
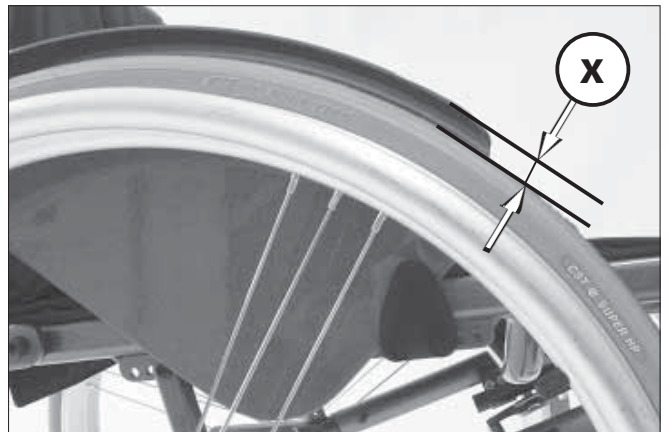
### Note:

If the single adaptation is not sufficient, the arm support can be repositioned in height.

- For this remove the corresponding rear screw (3) or (4). Reposition the arm support in height and reassemble the screws (3) or (4).

### Note:

After alignment to the wheel circumference check the functions of the arm support.



# SEAT

## Seat belt

The seatbelt (1) is screwed onto the seat tubes.



## Adjusting the seat depth

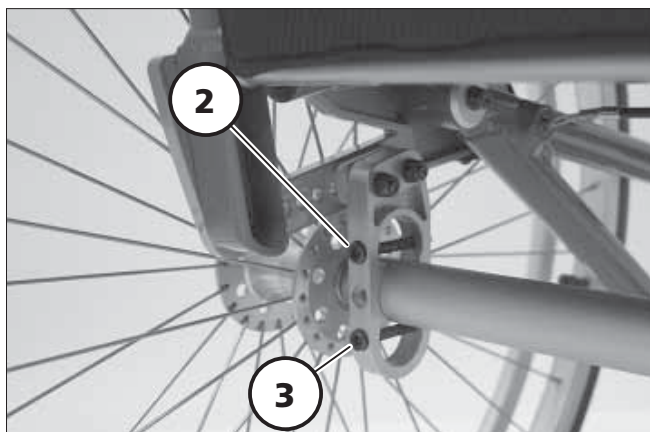
### Attention:

- ! If an adjustment of the seat depth is necessary contact your specialist dealer.

## Adjustment of seat inclination

The seat can be adjusted in angle.

- For this remove the clamping screw that is to be repositioned (2) or (3) on both sides and loosen the other clamping screw on both sides.
- Position the axle tube parallel into the free space of the tube clamp.
- Reassemble the clamping screws (2) or (3) on each side.
- Retighten the other clamping screws on both sides.



### Note:

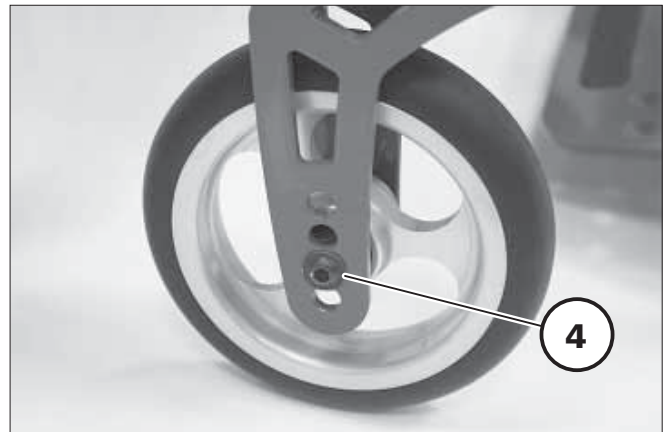
It might be required to adjust the angle of the back support after such an adjustment, view chapter < *Adjusting the angle of the back support* >.

## Adjusting the seat height

The seat height can be adjusted to the individual requirements.

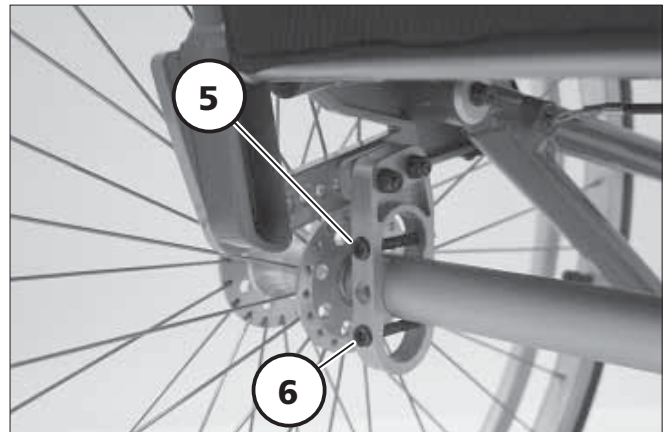
Front adjustment:

- Disassemble the attachment screw (4) on both sides.
- Position the steering wheels parallel according to the desired height.
- Reassemble the attachment screw (4) on both sides.



Rear adjustment:

- For this remove the clamping screw that is to be repositioned (5) or (6) on both sides and loosen the other clamping screw on both sides.
- Position the axle tube parallel into the free space of the tube clamp.
- Reassemble the clamping screws (5) or (6) on each side.
- Retighten the other clamping screws on both sides.



# BACK SUPPORT

## Folding over the back support

For storage or transport the back support (1) can be folded over and locked into place (4).

- For this swivel the arm supports in first (2).
- Then unlock the back support by pulling or pressing the rope (3) and fold it onto the seat (4) until the pressure bolt of the rope audibly locks into place.

☞ Check the engagement of the back support with a quick jerk.

## Folding up the back support

- First pull or press the rope in the middle in order to raise the back support. Then pull the back support up as far as possible (1). – The pressure bolt must audibly lock into place.

☞ Check the engagement of the back support with a quick jerk.

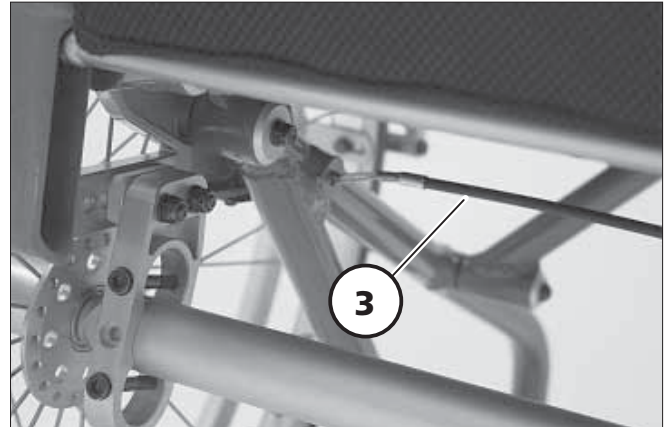
### ☞ **Note:**

The greasing of the thrust bolts is recommended for an easier latching of the backrest.

- Swivel the arm supports outward and insert them again (1).

### ☞ **Note:**

For this observe chapter < Inserting the arm support >.



## Fitting the back belt

The tension of the back support is adjustable.

- Pull the back belt off and fold it to the front (5).
- Open the Velcro fastener of the belt that you wish to adjust and close it again after adjustment.

### Attention:

- ! The overlapping of the Velcro fastener has to be at least 10 cm!
- Pull the back belt to the back again and attach the velcro strap (6).

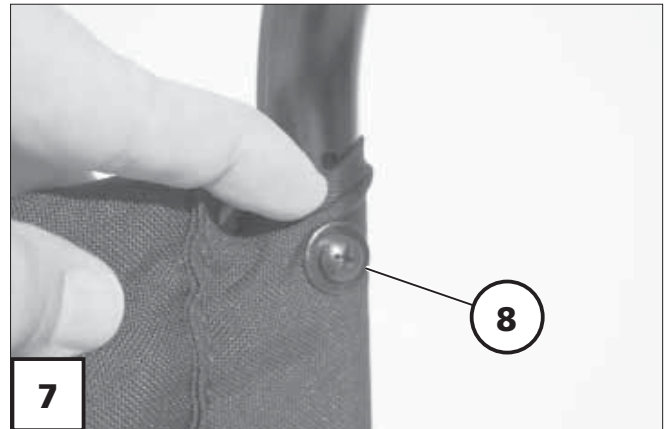
## Adjusting the back support belt

Two holes each are already in the back tubes to attach the back strap (7).

1. Screw out the attachment screw (8) on each side.
2. Adjust the back support strap in height.
3. Screw the attachment screw (8) on each side through the back support strap into the back tube and tighten (7).

### Attention:

- ! The height adjustment of the back strap is only to be done in a specialist workshop.



## Adjusting the back support angle

The angle of the back support to the seat surface can be adjusted in five positions.

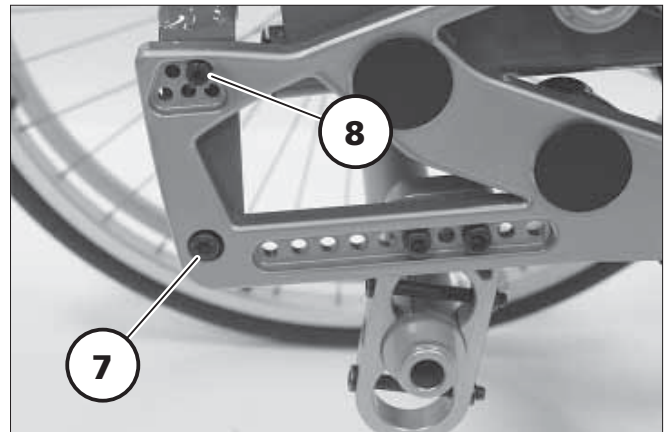
- Swivel the arm supports up.
- Loosen the screwed connection (7) on each side.
- Remove the angled screwed connection (8) on each side.
- Readjust the angle of the back support.
- Reassemble the angled screwed connection (8) on each side.
- Retighten the screw (7) of each side.
- Reinsert the arm supports.

### **Note:**

For this observe chapter < *Inserting the arm support* >.

### **Attention:**

- ! We recommend to adjust the back support vertically to the driving surface. – Otherwise increased danger of tilting!

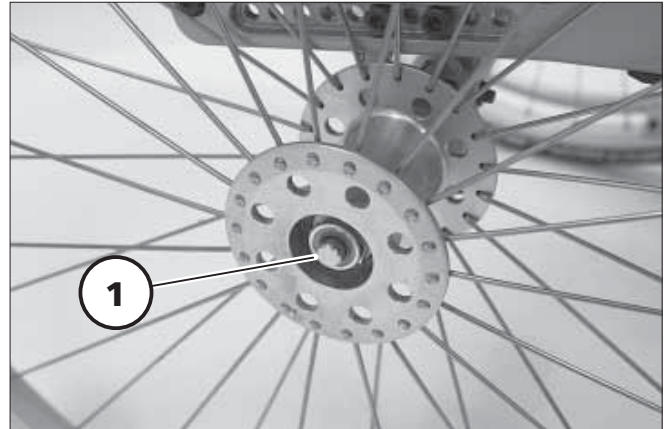


# WHEELS

## Drive wheels

The driving wheels can be removed and reassembled without any tools.

No person may be seated in the wheelchair during assembly or removal. The wheelchair must stand on a level and firm surface. Before starting the disassembly work, support the frame to prevent the wheelchair from tipping over and secure it to prevent an unwanted movement or tipping over.



### Version quick-release axle

- Press the locking button (1) of the quick release axle in the center of the hub.
- Remove or attach the drive wheel.

#### **Note:**

Always carry out a tensile test after each assembly!

#### **Attention:**

- After inserting the drive wheel the locking button must stick a couple of millimetres out of the wheel nut.
- The drive wheel is then secured in position.

#### **Note:**

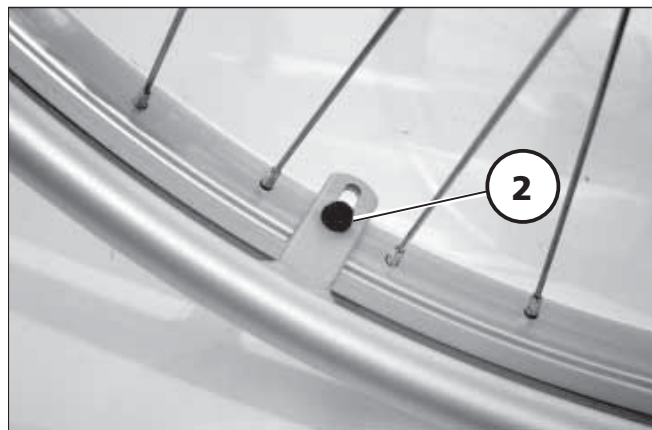
The stop bolt must be kept clean. A functional fault may occur in the case of contamination due to sand or earth or in the event of freezing of moist cold air.

## Handrims

All handrims are designed for a distance to the driving wheel of 15 mm (2), standard setting, and 25 mm.

### Attention:

- ! Replacement of handrims or modification of handrim distances should always be carried out by your specialist workshop.
- Observe the safety and general handling instructions < *Mechanical wheelchairs* > chapter < *Handrims* >!



## Spoke guard

The hand and spoke guard prevents injuries to the hands occurring by jamming in the turning spokes of the wheels, as well as damage to the spokes.

- The spoke guard is attached to the spokes with three clips (3).

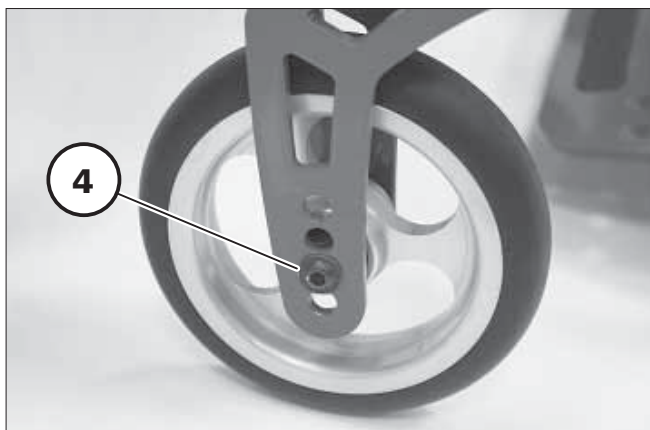
### **Note:**

Exchange or replacement of the spoke guard is to be done by the specialist dealer.

## Steering wheels

### Steering wheel position

The position (4) of the steering wheel in the fork is independent of the diameter of the steering wheel since the castor stem can be readjusted.



## Balance point

The balance point is adjustable by re-positioning or turning the axle tube.

 **Note:**

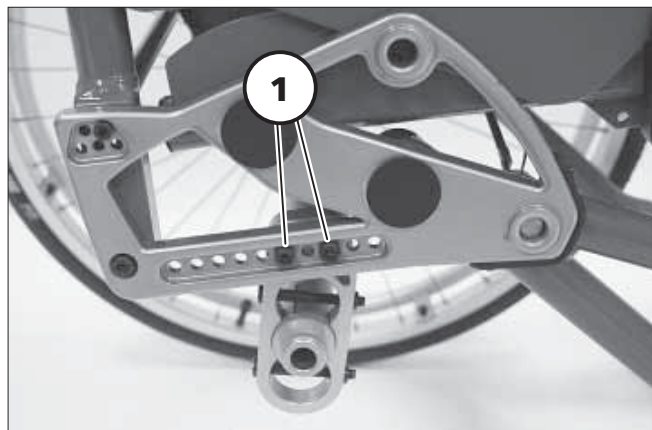
The adjustment should be carried out by the specialist dealer!

**Attention:**

- ! The overturning risk increases with
- a reduction in the axle separation distance (Forward displacement of the axle tube)!

The axle tube must be displaced in a parallel manner for a perfect driving behaviour. The distance of the axle tube to the back support must be identical on each side.

- Disassemble the screws (1) on each side of the axle tube.
- Position the axle tube parallel to the desired axle distance.
- Reassemble the screws (1) on each side of the axle tube.



## Wheel camber

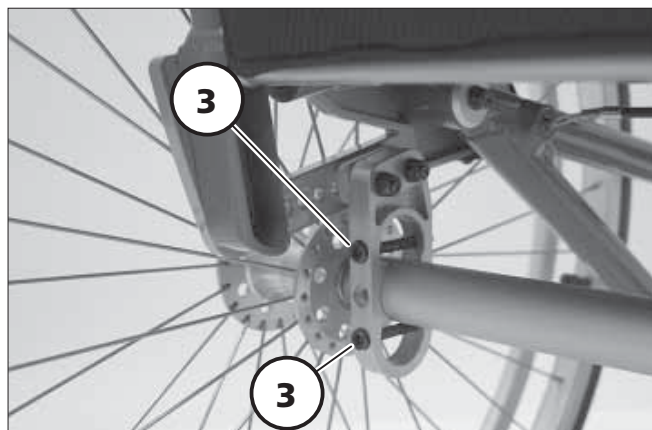
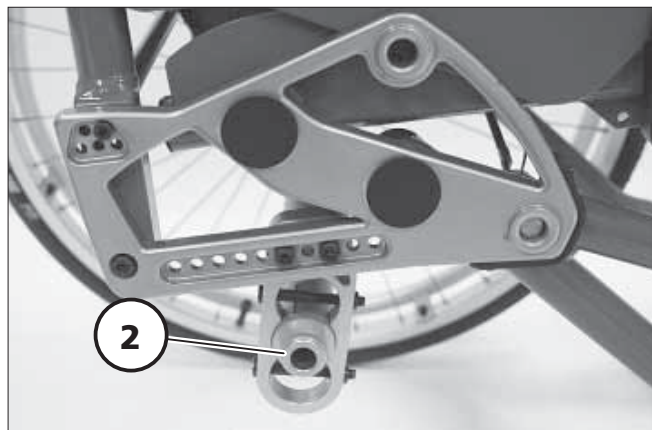
The wheel camber can be set to 1°, 3° or 6° by way of different axle mount adapters (2).

### **Note:**

The adjustment should be carried out by the specialist dealer!

### Adjusting the wheel camber

- Detach drive wheels. – Do this by pressing in the stop knob at the centre of the wheel and pulling off the wheel.
- Loosen the clamping screws (3) of the tube clamp on each side.
- Pull out the quick-release axle adapter (2).
- Insert the quick-release axle adapter (2) with the desired wheel camber into the receptacle tube.
- Slightly tighten the clamping screws (3) of the tube clamp on each side.
- Attach the drive wheels (view quick-release axle).
- Adjusting the toe-in (view toe-in).



## Toe-in

The toe-in can be adjusted by rotating the mount adapter (2) for the axle.

### **Note:**

The adjustment should be carried out by the specialist dealer!

- Slightly loosen the clamping screws (3) of the tube clamp on each side.
  - It should be just possible to turn the axle mount adapter (2) with the open-end spanner.

## Set toe-in with attached drive wheels

- Optically align drive wheels parallel to the frame. – Do this by rotating the axle mount adapters (2) in the appropriate direction.

## Fine adjustment

- Adjust for equal front spacing between drive wheel and the frame tube on both sides. – The spacing is to be determined with, for example, a ruler.

### **Remark:**

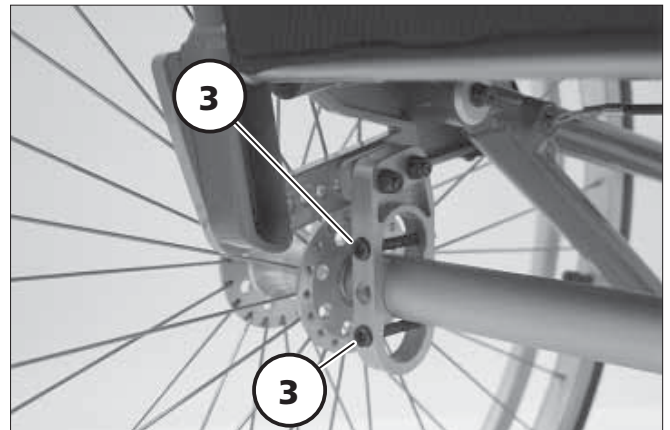
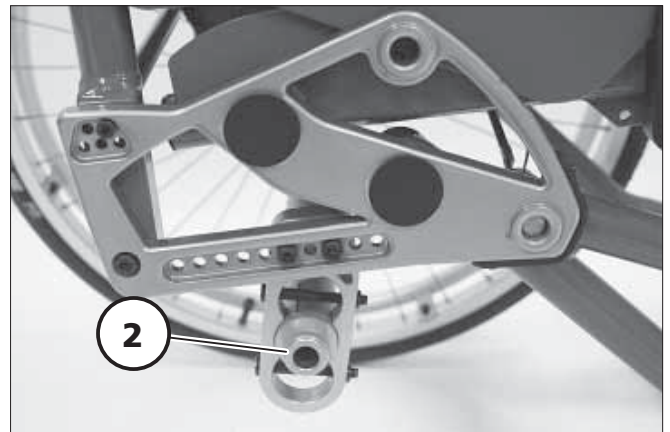
The above only ensures that the drive wheels are positioned equally to the frame.

- Measure the front and rear spacing between the drive wheels at the same height.

### **Note:**

If toe-in adjustment equipment is not available, use two items of identical height (e.g. bottles) in order to measure the spacing at the same height.

- Readjust on each side for a  $\frac{1}{4}$  of the difference between the front and rear measured drive wheel spacing.
- Measure the front distance of the drive wheel to the frame tube.
- Rotate the axle mount adapter in the appropriate direction to readjust for a  $\frac{1}{4}$  of the difference on both sides.
- Compare the new spacing on both sides.



### **Note:**

The toe-in of both sides must be identical. Different toe-in settings will cause your wheelchair to roll to the left or right of a straight line.

- Retighten the clamping screws (3) of the tube clamp on each side.

## Castor stem

The castor stem (1) should face 90° to the driving surface after each adjustment.

**Note:**

The adjustment should be carried out by the specialist dealer!

**Note:**

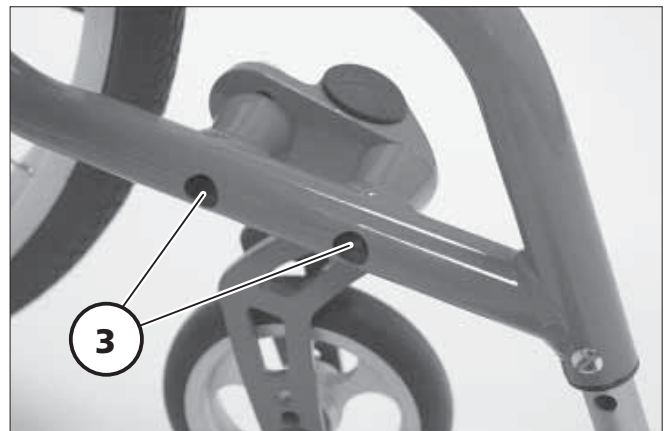
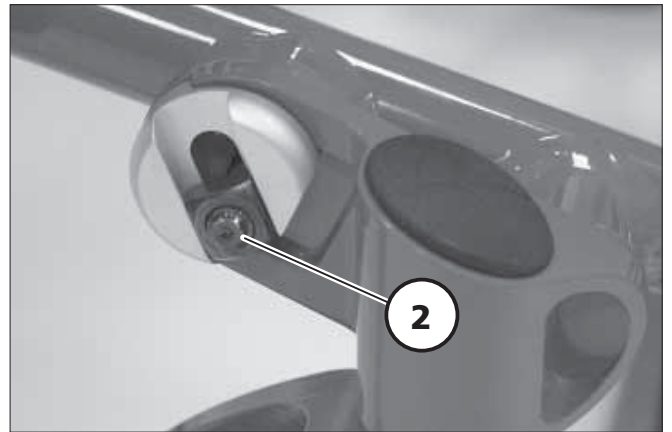
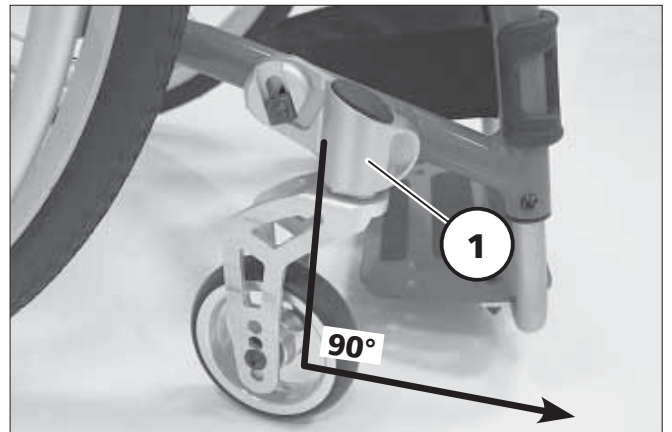
Attachment screws (2) to adjust the castor stem have to be secured with soluble Loctite glue after every third adjustment.

– Remove grease and glue remainders from the flights of the attachment screw first or alternatively use new attachment screw.

## Adjustable wheel base

By switching the castor stems the wheelbase is changed and thus also the forward tilting of the wheelchair.

- For this, disassemble the attachment screws (3) of the respective castor stem.
- Afterwards switch the right hand castor stem to the left and vice versa.
- Then reassemble the castor stems and align them 90° to the driving surface.



## SEAT BELT

The seatbelt serves to strap in a person sitting in the wheelchair.

- Additional stabilisation of the sitting position.
- Prevents the user from falling forwards out of the wheelchair.
- Continuous adjustment to suit the user's needs.

The seatbelt is screwed from the back onto the respective back support tube (1).

### **Note:**

The retrospective assembly of a retaining strap is only to be carried out by a specialist workshop!

### **Attention:**

- ! The retaining strap is not part of the retaining system for the wheelchair and/or user during transport in a handicapped vehicle.

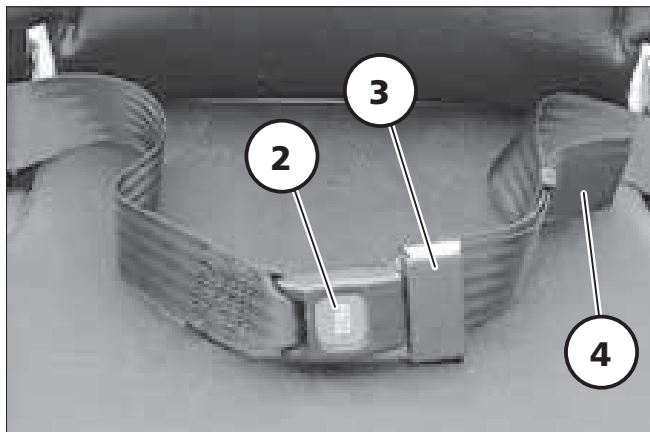
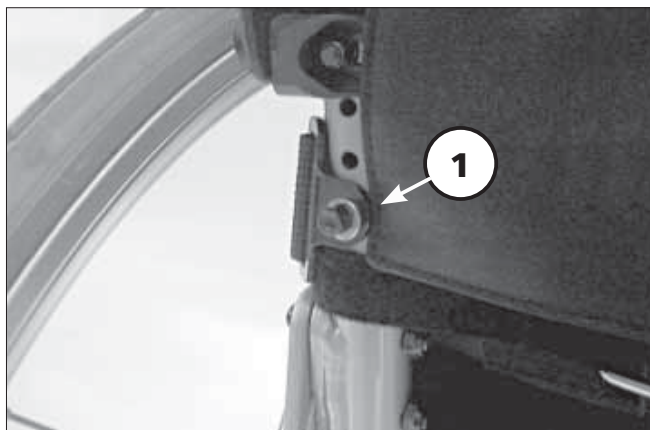
## Fastening the seatbelt with buckle

- Pull both belt halves to the front and slide the catch halves together so that they latch together. Then carry out a pull test.

To open the seatbelt the red locking button (2) is pressed down.

### **Attention:**

- ! Make sure that no objects are trapped between belt and the body! – Thus you avoid painful pressure points



## Adjustment of belt length

### **Note:**

The seatbelt should not be pulled too tight.

The length of the seatbelt can be changed by sliding the buckle (3) and / or pulling the end of the strap (4).

## SUPPORT CASTOR

The inward swivelling support castor (1) serves to increase the tilting stability and can be removed for folding the wheelchair (2).

- ☞ The support castor can be mounted singly or as a pair on both sides.
- ☞ Swivelling or removing the support castor can be done by an attendant or aid.

### Attention:

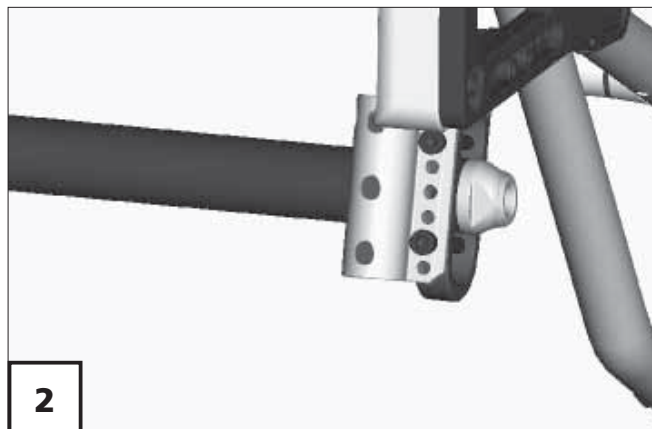
- ! For increasing the tilting stability never drive without the support castor swivelled inward or extended.
- The support castor does not provide sufficient protection against tipping over in certain situations.

### Therefore, do not:

- ▲ Leaning the upper body far back.
- ▲ When the wheelchair starts suddenly, especially when driving uphill.
- ▲ Driving over steps, e.g. curbs or stairs.  
– Danger of falling over forwards.

### ☞ Note:

- ☞ Please observe the sections < *Driving uphill, avoiding obstacles* > as well as < *Entering lifts, driving onto lifting platforms and escalators* > in the safety information < *Mechanical wheelchairs* > !





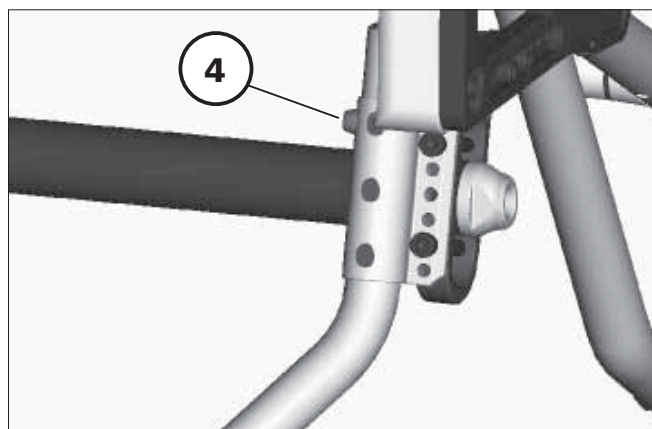
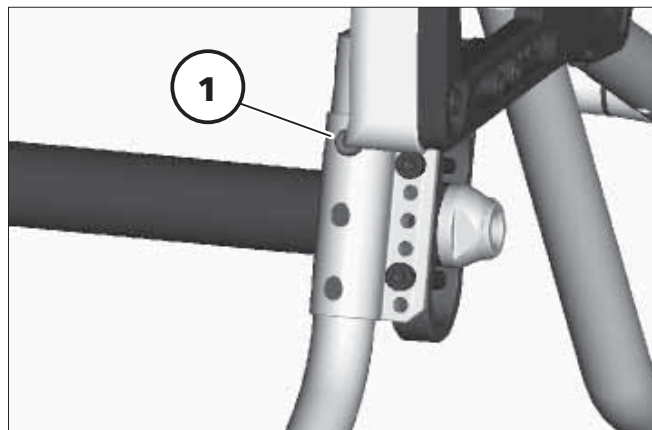
## Swinging the support castors

Press the spring button (1) of the locking device in order to swivel the support castor around.

Afterwards swivel the support castor horizontally inward (2) or outward (3) until the spring button audibly locks into place.

### **Note:**

-  The spring button must visibly and audibly lock back into place in the 90° position of the same height (4)+(1).
-  Check the engaged spring button locking function with slight turning motions!



## Removing the support castor



First press the spring button (1) down, then turn the support castor slightly inward and pull it out (2).

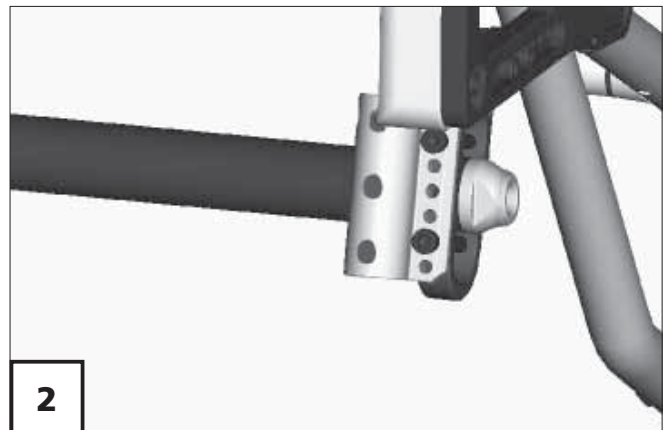
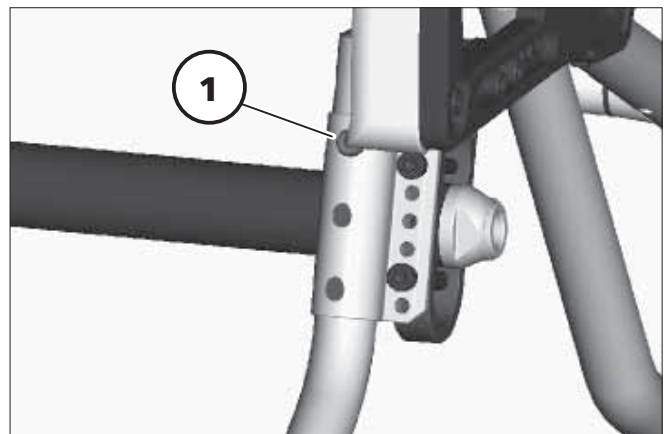
## Inserting the support castor

Press down the spring button and insert the slightly inward swivelled support castor from the bottom into the desired position.

Afterwards swivel the support castor horizontally inward (3) or outward (4) until the spring button audibly locks into place.

### **Note:**

-  The spring button again must visibly and audibly lock into place in the desired position (1).
-  Check the engaged spring button locking function with slight turning motions!



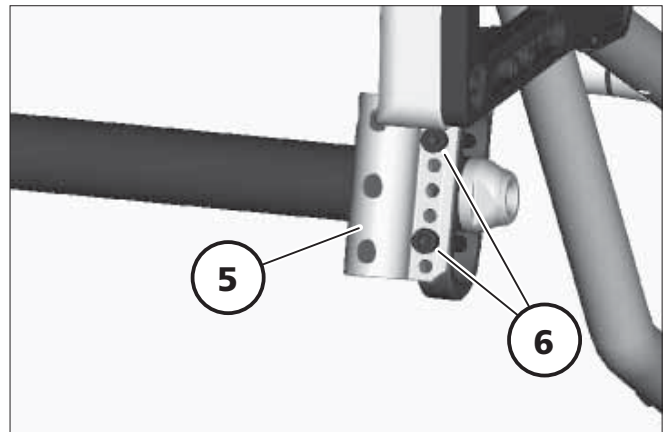
## Adjusting the position of the support castor

Further support castor positions can be achieved by putting the support castor bracket into another position (5).

- For this, remove the attachment screws (6) and change the position of the support castor bracket (5).
- Afterwards remount the support castor bracket (5) with the attachment screws (6).

### **Attention:**

- ! Have the function checked by the specialist dealer after each change to the seat height and wheel size!



# LOADING AND TRANSPORTATION

## Safety information

- For the transport in vehicles, you must leave the wheelchair and sit in a suitable seat in the vehicle. The transportation of persons in wheelchairs is prohibited. – The wheelchair is not designed to withstand the forces which are generated in accidents, which exposes the user to considerable risks.



## Transport in vehicles

The following items may be necessary due to lack of space for the transport in vehicles.

- Fold over the back support.
- Detach drive wheels.
- Sliding in the support castor.

The parts detached for the transport must be carefully stowed and carefully attached again before the next journey!

### **Note:**

-  During reassembly, ensure that each part is correctly installed and securely fastened. Check that components are correctly positioned.
-  Check the correct seating of the components.

## Transport security

Carry out the following steps when the wheelchair is located in the transport vehicle:

- Operate parking brakes.
- Any parts that have been dismantled from the wheelchair should be stored safely in a protected place.
- Remove bags, walking sticks and other items not belonging to the wheelchair and stow these safely.
- Secure the wheelchair by way of elastic straps.

Only fasten the elasticised belts to parts of the car envisaged for this purpose and to the frame tubes of the wheelchair!

- Do not use the steering wheels, footplates or push bar to rig the wheelchair. Only use permitted fastening material.

**Note:**

- ☞ Suitable fixing points can usually be found in the car and in the vehicle operating manual.
- ☞ Before transporting the wheelchair, ask your car dealer how to secure it without risk to the existing fixtures or other safety fittings!

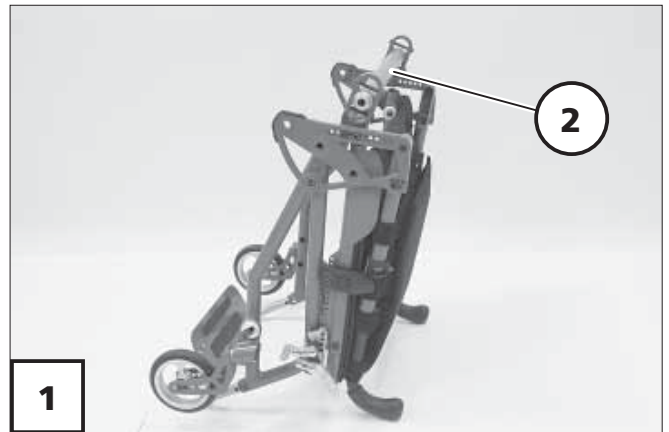
**Safety information**

- ☞ Loose objects are to be stored securely.

**Carrying the wheelchair**

The backrest can be folded forward onto the seat for carrying the wheelchair (1). The axle tube (2) then serves as a carrying handle.

- ☞ Check the locking down of the back support before carrying the wheelchair!



## Transport in handicapped transport automobile

### **Note:**

For transport in vehicles we recommend to leave the wheelchair and sit on a suitable seat in the vehicle.

If a transport in the wheelchair is inevitable, the wheelchair needs to have securing systems complying with DIN 75078 Part 2.

The transport vehicle (handicapped transport vehicle) needs to have the equipment for transporting wheelchairs according to DIN 75078 Part 1.

This norm describes a „power-knot-system“. With this system the unit wheelchair and user is secured in a handicapped transport vehicle. The system is divided into two components:

- Personal retaining system (PRS)
- Wheelchair retaining system (WRS)

The retaining system should fulfil the following technical requirements:

- Strap course of the PRS in the area of the pelvis and shoulder with as little as possible risk of injuries of inner organs.
- Simple, clear and quick operation through the driving service and good accessibility within the transport vehicle.

The power-knot-system is a firm, retrofittable element on the wheelchair, on which the PRS and WRS merge.

These requirements are fulfilled by a 4-point-system that consists of 2 front standardised latches for spanning retractor and 2 rear standardised latches for spanning retractor and lap seat belt.

The lap seat belt must be length adjustable and fit with a latch to connect with the receptacle of the vehicle shoulder strap.

The standardised latches are on the one side connected to the wheelchair and on the other hand with the spanning loops or hole grid of permitted strap reactors that are countersunk into the floor of the vehicle according to DIN 75078 part 1.

The restraint system only offers sufficient safety in regular traffic situations (sharp braking manoeuvres and similar) but not during collisions outside of the normative testing values. Especially not during a boot crash.



### **Note:**

The headrest on the wheelchair serves as a support for the posture of the head, not as a transport security. Therefore a handicapped transport vehicle-firm head support is necessary!







### **Attention:**

- ! Angle adjustable back supports are to be set vertically.
- Tipped seats are to be set horizontal.
- Is a securing system in compliance to DIN 75078 Part 2 required for the wheelchair, contact and specialist dealer.

### **Product liability instructions**

-  Transport in the wheelchair with a handicapped transport automobile (BTW) is done at own risk!
-  We do not accept liability for damages or other possessions that occurred through the transport in a handicapped transport automobile.




### **Safety information**

-  When transporting a person, make sure that there are no objects jammed underneath the straps!  
– Thus you avoid painful pressure points
-  As far as possible use a vehicle-installed seat during transportation.
-  Only transport the wheelchair in driving direction.
-  The driver, resp. the attendant is responsible for the professional securing of the wheelchair in the BTW.
-  For professional transport in a BTW the wheelchair and person have to be placed on the therefore determined space and secured with the corresponding securing system.
-  Loose object are to be stored securely.

# SERVICE

## Cleaning and maintenance

### **Note:**

-  Do not clean the wheelchair with a high-pressure cleaner!
-  For care you should use silicon free cleansing or care agents on a warm water basis such as the leather care emulsion from Sonax. – In doing so the manufacturers instructions are to be observed.
-  Do not use aggressive cleaning agents e.g. solvents, or hard brushes etc.



### **Upholstery and covers**

The cushions and covers are normally fit with care instructions (instruction for care). In all other cases the following information is true:

- Clean the upholstery with warm water and hand washing liquid.
- Remove spots with a sponge or a soft brush.
- Wash off persistent dirt with commercial fine detergent.
- Follow-up with clean water and allow to dry.



### **Plastic parts**

The lateral guides and parts are made of high-quality plastic.

-  Only clean the plastic parts with warm water and neutral detergent or soft soap.
-  When using commercial plastic cleansers the manufacturers application instructions are to be observed.

### **Finish**

The high quality finish ensures an optimum of protection against corrosion.

-  For paint and chrome care the commercially available brand name paint and chrome cleansers are recommendable.
-  Should the coating be damaged with scratches or similar, these areas can be touched up with our paint pen available at the specialist dealer.

## Chassis

The chassis and wheels can be cleaned damp with a mild detergent. Afterwards dry off well.

### **Note:**


Check the chassis for corrosion damages as well as other damages.

Occasional application of a light cover of oil to all moving parts (see also Maintenance Instructions) will ensure that your wheelchair will give you many years of service.

## Disinfection

If the product is used by more than one person (for example in a care centre), the use of a commercial disinfectant is mandatory.

For hand disinfection of the product we recommend Incidin plus in 0.25 to 0.5 % concentrations or an equivalent disinfectant.

 In doing so the manufacturers instructions are to be observed.

### **Note:**

Before disinfection the upholstery and handles are to be cleaned.

## Reinstallation

Before reimplementation the wheelchair is to undergo a complete inspection.

### **Note:**


The hygienic measures required for reimplementation are to be carried out in correspondence with the validated hygienic plan.

## MAINTENANCE

An incorrect or neglected cleaning and maintenance results in a limitation of the product liability.

## Maintenance

The following maintenance Instruction gives you a guide for carrying out the maintenance work.

 They do not give information about the actual extent of work required on the vehicle.

## Maintenance schedule

WHEN	WHAT	Remark
<p><b>Before starting out</b></p>	<p><b>Test brakes for faultless operation</b></p> <p>Activate brake lever to the limit. The locked wheels should not be able to turn under operating conditions. If they can still turn, the brakes must be repaired by a specialist workshop.</p>	<p>Carry out test yourself or with a helper.</p>
	<p><b>Check brake for wear Move brake lever to the side</b></p>	<p>Carry out tests yourself or have a helper do it. If you notice any increasing slackness on the brake lever take the wheelchair to your specialist workshop immediately for repairs.</p> <ul style="list-style-type: none"> <li>– Danger of accidents!</li> </ul>
	<p><b>Check all screwed on parts for secure fit</b></p>	<p>The following is to be checked with great care:</p> <ul style="list-style-type: none"> <li>– Attachment of the back- and seat profiles at the side frame,</li> <li>– attachment of the footplate to the side frame,</li> <li>– attachment of the stabiliser rod underneath the seat surface.</li> </ul>

## Maintenance schedule

WHEN	WHAT	Remark
<p><b>Before starting out</b></p>	<p><b>Check air pressure of the tyres</b></p> <p>Standard tyres: 4 bar = 56 psi</p> <p>High-pressure tyres: 8.0 bar = 116 psi</p>	<p>Do it yourself or with the aid of a helper.</p> <p>For this use an air pressure gauge or, if not available conduct the "thumb pressure method" or similar (view Safety instructions &lt; <i>Mechanical wheelchairs</i> &gt; chapter &lt; Brakes &gt;).</p>
	<p><b>Check tyre profile</b></p>	<p>Carry out visual check yourself.</p> <p>If the tyre profile is worn down or if the tyre is damaged, consult a specialist workshop for repairs.</p>
	<p><b>Check the back tubes and frame tubes for damages.</b></p>	<p>Carry out tests yourself or have a helper do it.</p> <p>If deformations or cracks occur in the welding seams, contact a specialist workshop immediately for repairs.</p> <p>– Danger of accidents!</p>

## Maintenance schedule

WHEN	WHAT	Remark
<b>Before starting out</b>	<b>Check the lock of the back support.</b>	Do it yourself or with the aid of a helper.
<b>Every 8 weeks</b> (depending on distance covered)	<p><b>Lubricate the following components with a few drops of oil</b></p> <ul style="list-style-type: none"> <li>– Moving parts of the locking mechanism.</li> <li>– Brake lever bearings.</li> </ul> <p><b>Check all screw connections for secure fit</b></p>	<p>Do it yourself or with the aid of a helper. Components must be free from used oil residues before lubrication. Please ensure that excess oil does not contaminate the environment (e.g. your clothing)</p> <p>Yourself or with the aid of a helper</p>
<b>Every 6 months</b> (depending on frequency of use)	<p><b>Check:</b></p> <ul style="list-style-type: none"> <li>– Cleanness.</li> <li>– General condition.</li> </ul>	<p>See Care See Repairs.</p>

## Flat tyre

If a flat tyre occurs to the air filled tyres due to puncture by sharp objects such as nails, screws, glass splinters, etc. the damage should be eliminated by repairing (mending the inner tube) or replacing the inner tube.

### Attention:

- ! Sitting in the wheelchair during a wheel change is not permitted. The wheelchair must stand on a level and firm surface. Before starting the disassembly work, support the frame to prevent the wheelchair from tipping over and secure it to prevent an unwanted movement or tipping over.

## Changing the tyres

### Note:

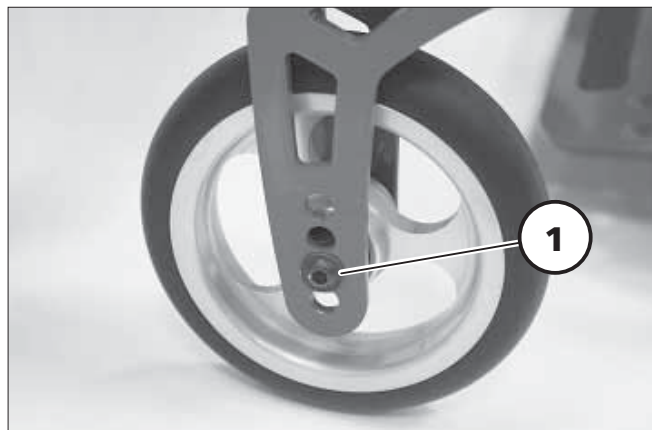
Always change tyres in pairs. – Differently worn tyres can impair the straight-on travel of the wheelchair.

### ! Attention:

Before tyre repair, open the pneumatic valve and vent any remaining compressed air in the inner tube.

### Note:

The air pressure for the tyres is shown on both sides of the tyre and in the < *Technical data* > section.



## Tyre change of the drive wheels

### Attention:

- ! Ensure that the tyre cover is always removed and reinstalled with the appropriate tyre levers (bicycle accessories).

Never use screw drivers or other pointed /sharp edged objects as levers!

## Tyre change of the steering wheels

Before replacement or repair the steering wheel axle (1) is to be disassembled.

### Note:

Take note of the arrangement of all sleeves and washers used.

## Adjusting the brakes

According to the < *Maintenance instructions* > the brakes are to be checked for function after each repositioning of the drive wheels and re-adjusted if necessary.

Equally adjust both pressure brakes, taking into account

- tread of the drive wheels,
- air pressure of the tyres and
- user weight.

adjust evenly. – Danger of accidents caused by one sided braking effect!

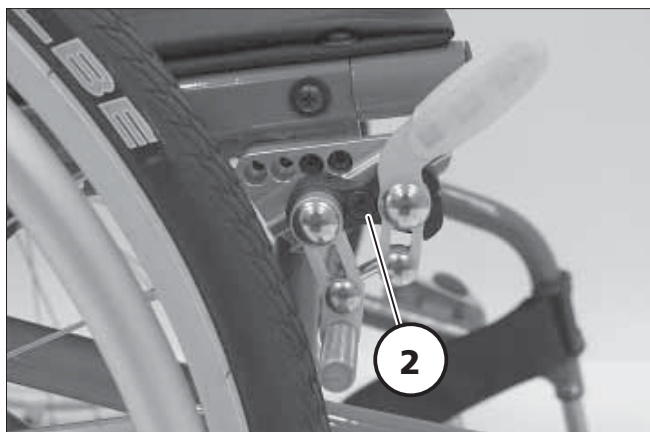
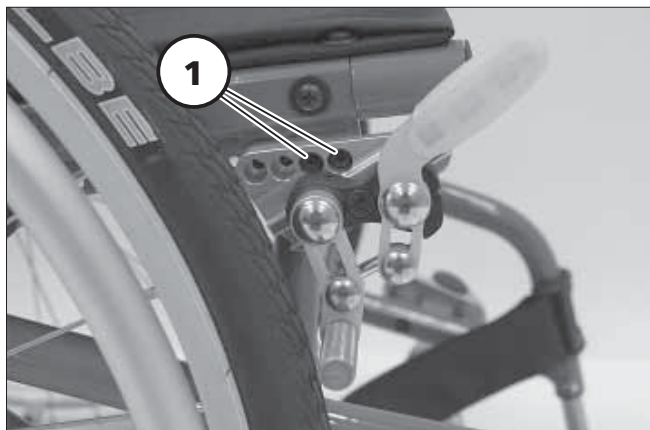
### Pre-setting of the pressure brakes

- For this, disassemble the attachment screws (1) of one pressure brake.
- Then slide the brake bolt of the non-activated pressure brake to a point approx. 5mm to 10mm in front of the drive wheel.
- Afterwards remount the attachment screws (1) in the next possible screw position.

Adjust opposite pressure brakes as described.

#### **Note:**

Function and accurate fit of the brakes.



### Fine adjustment of the pressure brakes

- Loosen the clamping screw (2) of the respective pressure brake.
- The respective fine-tuning is achieved by slightly sliding the respective pressure brake within the area of the clamping rail.
- Retighten the clamping screw (2).

#### **Note:**

Inspect function and accurate fit of the pressure brakes.

## Repair

To conduct repair or maintenance work trustfully contact a specialist workshop. It is briefed in carrying out the work and has educated personnel.

## Customer Service

Please contact a specialist dealer if you have any questions or need help. A specialist dealer has been trained by us in our factory according to our guidelines and can give advice and carry out maintenance, servicing and repairs.

## Spare parts


Spare parts can only be ordered from specialist dealers. In case of repair work, only original spare parts are to be used!

### **Note:**

Spare parts from other manufacturers can cause malfunctions.

The spare parts list with the respective part numbers and drawings is available at the specialist dealer.

### **Attention:**

-  Safety relevant parts or assembly groups are only to be assembled in a specialist workshop. – Danger of accidents!

You must state the serial number (SN), previously called Fz-I-Nr., of the wheelchair when ordering spare parts in order to ensure that the correct spare part is supplied! You will find this on the type plate.

Whenever a wheelchair change/modification is carried out by the specialist dealer, the supplementary information, e.g. assembly/operating instructions must be attached to the operating manual for the wheelchair, the date of the modification must be recorded and stated when ordering spare parts.

This should prevent wrong order details on future spare parts orders.

## Disposal

- ▲ The vehicle packing material can be disposed of as recyclable material.
- ▲ The metal parts can be disposed of as recyclable scrap metal.
- ▲ The plastic parts can be disposed of as recyclable plastic.
- ▲ The disposal must comply with the respective national law.
- ▲ Please enquire about local disposal arrangements at your municipal authority.

# INSPECTION

For safety reasons and to prevent accidents which can result from wear not detected in good time, an annual inspection is necessary in the case of normal operating conditions. This is to be carried out in accordance with the following service checklist.

Have this work carried out by a specialist workshop in order to ensure that the wheelchair offers the highest level of safety and reliability.

The employees of the workshop are familiar with the technology of the vehicle and have suitable tools. They can identify the start of wear in good time and use only original spare parts.

## **Note:**

It is recommended under severe operating conditions, e.g. daily use in home care – with frequently changing wheelchair users – to undertake interim check-ups of the brakes and chassis.

## List of annual maintenance work

### Preparation for visual check

Remove the seat and back support elements if possible. If necessary, clean the vehicle or the modules before the visual check.

### Visual check

- Check frame, attachments and accessories for damages, corrosion as well as damages to the coating.

### General checks

- Check the securing screws for tightness.
- Check the securing of all add-on elements.
- Check the attachment of the plastic parts, handgrips, add-on parts and accessories.
- Check the bowden cables for damages.

### Chassis

- Check the fastening of the steering and drive wheels.
- Check the function of the quick-release axles.
- Check the tyre condition and tyre pressure.
- Check the condition, functioning and smooth-operation of the steering wheel suspension.

### Brakes

- Check the function of the brakes.

### Oil/Grease

- Rotating points and bearing points of control levers and moving parts.
- Bowden cables.

### Final check

- Check the lighting and signalling devices.
- Brake-/steering-/driving test additionally on inclinations and slopes.
- General function test of the mechanical adjustment units.
- Drive test.

# Inspection certificate through the dealer

## Vehicle data:

Model:

Delivery note no.:

Serial-no. (SN) / Vehicle identification no. (Fz-I-Nr.):

### Pre-delivery inspection

Stamp of specialist dealer: \_\_\_\_\_

Signature: \_\_\_\_\_

Place, date: \_\_\_\_\_

\_\_\_\_\_

Next safety inspection in 12 months

Date: \_\_\_\_\_

### Recommended safety inspection (at least every 12 months)

Stamp of specialist dealer: \_\_\_\_\_

Signature: \_\_\_\_\_

Place, date: \_\_\_\_\_

\_\_\_\_\_

Next safety inspection in 12 months

Date: \_\_\_\_\_

### Recommended safety inspection (at least every 12 months)

Stamp of specialist dealer: \_\_\_\_\_

Signature: \_\_\_\_\_

Place, date: \_\_\_\_\_

\_\_\_\_\_

Next safety inspection in 12 months

Date: \_\_\_\_\_

### Recommended safety inspection (at least every 12 months)

Stamp of specialist dealer: \_\_\_\_\_

Signature: \_\_\_\_\_

Place, date: \_\_\_\_\_

\_\_\_\_\_

Next safety inspection in 12 months

Date: \_\_\_\_\_

# TECHNICAL DATA

All data within the following table relates to the standard version of the stated model.

Dimensional tolerance is +/-1.5 cm, +/-2°

Short form of wheelchair dimensions:

SH = Seat height

SW = Seat width

SD = Seat depth

BH = Backrest height

RSH = Rear seat height

**Model:**..... **XR 1.911**

Type plate:..... at the crossbrace tube

Two frames are available:

- Standard
- Long frame

## Dimensions

Length (depending on the position of the drive wheel )

Frame standard (min. / max.):..... 77 / 84 cm

Manufacturer setting standard: ..... 80 cm

Long frame (min. / max.):..... 83 / 90 cm

Manufacturer setting long: ..... 86 cm

Width

with 1° wheel camber: ..... (SW) + 18 cm

with 3° wheel camber: ..... (SW) + 21 cm

with 6° wheel camber: ..... (SW) + 27 cm

Height

min. / max. (without push handle):..... (RSH) + (BH)

Back support belt height

each adjustable by +3 cm (in 5 cm-steps): ..... 25 to 40 cm

Seat width (in 2 cm-steps):..... 36 to 46 cm

Seat depth standard (in 2 cm-steps):..... 38 to 42 cm

Seat depth long (in 2 cm-steps):..... 42 to 46 cm

Seat height (without seat cushion up to upper edge of the seat frame)

Frame standard (min. / max.):..... 45.3 to 53.4 cm

Long frame (min. / max.):..... 47.3 to 55.4 cm

Seat cushion thickness:..... 3 cm

### Seat inclination

adjustable:..... 1°, 3°, 6°

### Back support reclining

Frame adjustable in steps of 3°: .....+6° to -18°  
(The basic position of the back support is 90° to the not angled seat surface)

### Thigh length

without seat cushion:..... 38 to 48 cm

### Height of push-handles:

Code 502 (steplessly adjustable):..... 30 cm

## **Wheels**

### Steering wheel

4", resp. Ø 100 mm:..... solid rubber

5", resp. Ø 125 mm:..... solid rubber

Ø 142 mm:..... solid rubber

### Driving wheel

24" PU-tyres: .....puncture proof

24x1" High-pressure tyres:..... 8 bar = 116 psi

## **Transport dimensions:**

### Length (without drive wheels)

Frame standard:..... 72 cm

Long frame:..... 78 cm

Height (without drive wheels, without push handles):..... 35 cm

## **Temperatures**

Ambient temperature: ..... -20 °C to +40 °C

Storage temperature:..... -10 °C to +40 °C

## **Permitted inclination/slopes**

Permitted inclination:..... 4.5° (8 %)

Permitted slopes: ..... 4.5° (8 %)

Stability against tipping over: ..... 4.5° (8 %)

## Weights

Permissible total weight\*: ..... max. 130 kg

Max. permissible user weight (including additional load): ..... 120 kg

maximum additional load: ..... 10 kg

Empty weight: ..... min. 10 kg  
(with drive wheels)

Seat cushion: ..... 0.7 kg

Transport weight: ..... min. 7 kg  
(without drive wheels)

\*

### **Note:**

The maximum total load is calculated on the basis of the unloaded weight of the wheelchair and the maximum passenger weight.

Additional weight due to subsequent additions or luggage reduce the maximum permissible passenger weight.

Example:

A driver wishes to take luggage with a weight of 5 kg. Thus, the maximum passenger weight is reduced by 5 kg.

## Tools

The following tools are required for adjustments and maintenance:

Open-end or ring spanner ..... Wrench width (WW) 8 / 10 / 13 mm

Hexagonal stud wrench ..... Wrench width 3 / 4 / 5 / 6 mm

Phillips screwdriver ..... Size PH resp. PZ 0 / 1 / 2

Slot screw drivers ..... Size small

## Tightening torque for screwed connections

If not noted otherwise the screwed connections are to be tightened with the corresponding torque.

Thread diameter M 4..... 3 Nm

Thread diameter M 5..... 5 Nm

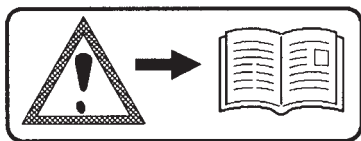
Thread diameter M 6..... 10 Nm

Thread diameter M 8..... 25 Nm

Thread diameter M 10 ..... 50 Nm

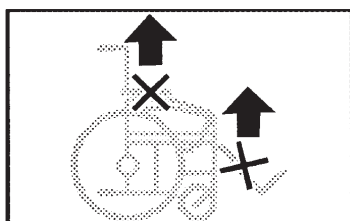
Thread diameter M 12 ..... 85 Nm

## Meaning of the labels on the wheelchair



### **Attention!**

Read the operating manuals and other provided documentation.



Do not lift the wheelchair at the arm supports or leg supports.

Detachable parts are not suitable for carrying.

### **Achtung**

Bremse nachstellen.

### **Attention**

Readjust the brakes.

### **Achtung**

Erhöhte Kippgefahr auf Steigung / Gefälle besonders in Verbindung mit kurzem Radstand.

### **Attention**

Increased danger of tilting when on inclinations / slopes, especially in combination with short wheel base.

## Meaning of the symbols on the type plate



Manufacturer



Order number



Serial number



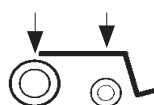
Production date  
(Year – Calendar week)



Permitted user weight



Permitted overall weight



Permitted axle weights



Permitted rising gradient



Permitted falling gradient

max. ... km/h Permitted maximum speed

# WARRANTY / GUARANTEE

We accept legal liability for this product within the scope of our general terms and conditions and warranty and the guarantee according to our described quality service. For warranty and guarantee demands please contact your specialist dealer with following Warranty/Guarantee section and the there included information on model description, delivery note number with delivery date and serial number (SN – previously vehicle identification number).

The serial number (SN) can be read off of the type plate.

Pre-condition for the acceptance of liability in any case is the intended use of the product, the use of original spare parts by authorised dealers as well as maintenance and inspections in regular intervals.

Guaranty is not granted for surface damages, tyres of the wheels, damages due to loosened screws or nuts as well as worn out attachment holes due to frequent assembly work.

Furthermore, damage to the drive and electronics caused by improper cleaning using steam cleaning equipment or the deliberate or accidental flooding of the components are also excluded.

Interferences through radiation sources such as mobile phones with high transmission power, HiFi-equipment and other extreme interference radiators outside of norm specifications cannot be declared as warranty or guarantee claims.

## **Attention:**

- ! Failure to observe the instructions in the operating manual, improperly carried out maintenance work and, especially, technical changes and additions (add-ons) carried out without our prior consent will lead to a general loss of guarantee and product liability.

## **Note:**

This operating manual as a part of the product is to be handed out in case of a change of owner.

We reserve the right to make technical improvements.



The product conforms with the EC Directive 93/42/EEC (MDD) for medical products

## WARRANTEE / GUARANTEE SECTION

Please fill out! Copy if necessary and send the copy to the specialist dealer.

# Warranty / Guarantee

Model designation:

Delivery note no.:

SN (view type plate)

Date of delivery:

Stamp of the specialist dealer:



┌ Your specialist dealer: ┐

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**MEYRA<sup>®</sup>**  
**ORTOPEDIA**

**We move people.**

MEYRA-ORTOPEDIA  
Vertriebsgesellschaft mbH  
Meyra-Ring 2 · D-32689 Kalletal-Kalldorf  
P.O. Box 1 703 · D-32591 Vlotho  
Fon +49 (0)5733 922-355  
Fax +49 (0)5733 922-9355  
info@meyra-ortopedia.de  
www.meyra-ortopedia.de

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