



CE

GB

OPERATING MANUAL

MEX-X, MODEL 1.130

MEX-S, MODEL 1.134

MEYRA[®]
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 wheelchair of the *Mex model series* fulfils the desire for mobility and more independence by way of a new styling of the proven MEYRA 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 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!

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

HANDLING THE WHEELCHAIR

Specifications

The wheelchairs of the ***Mex series were developed for children and youngsters***. 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 1.130, Mex-x

The overview shows the most important components of the wheelchair.

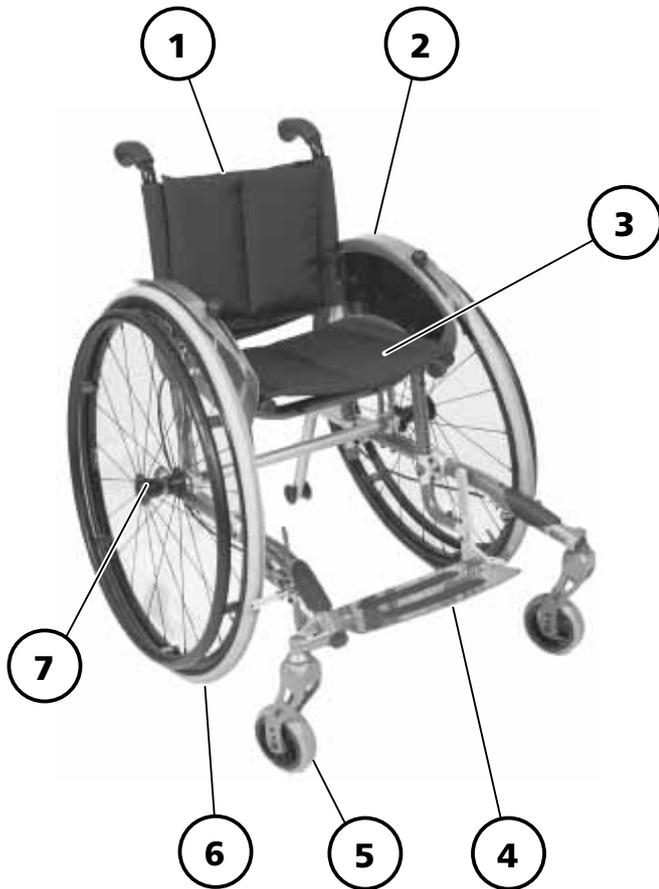


- 1 Back support
- 2 Side element
- 3 Seat belt/seat cushion
- 4 Footplate
- 5 Steering wheel
- 6 Drive wheel
- 7 Quick release axle

- 8 Push handle
- 9 Pressure brakes
- 10 Handrims
- 11 Support wheel

Model 1.134, Mex-s

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
- 11 Support wheel

FOLDING/TRANSPORT

Folding/Unfolding

☞ Only on model 1.130

Folding the wheelchair

Your wheelchair can be folded in a few moments without tools being required (1)

- Remove the seat cushion, if applicable.
- Folding up the footboard, view chapter < *Footboard* >.
- Pull the back support extension off toward the bottom, view chapter < *Back support strap* >.
- Bend the back belt to the rear.
- Pull the seat belt upward in the centre of the front and back (1).



Carrying the wheelchair

Your wheelchair can be carried without difficulty when folded.

Fold the wheelchair, therefore view chapter < *Folding the wheelchair* >.

From the front push one lower arm under the upward folded seat belt.

Place other hand underneath the rear seat fold for support.

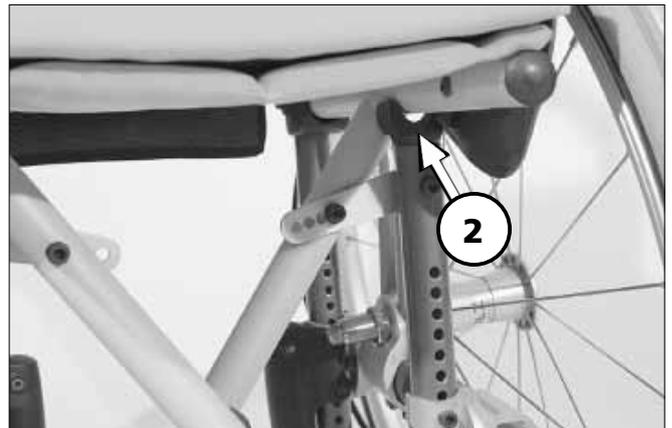
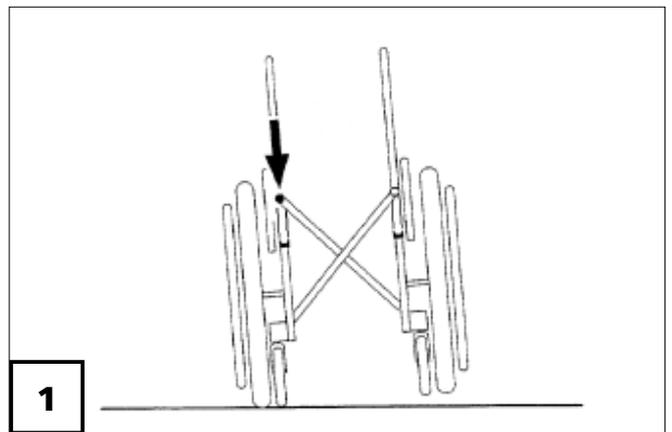
Lift the wheelchair to horizontal position.

Unfolding the wheelchair

Tip the wheelchair slightly to one side in order to make the unfolding easier. At the side resting on the floor, press the seat tube down to the end stop (1).

Note:

-  You may need to press down both seat tubes with the hands in order to do this.
-  Observe that the seat tube sits securely on the support surface (2).



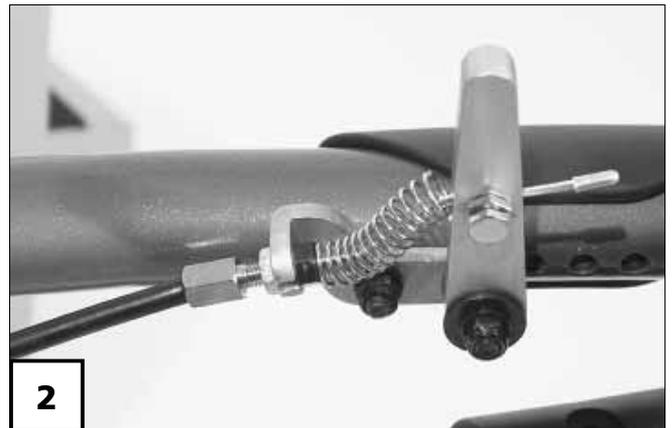
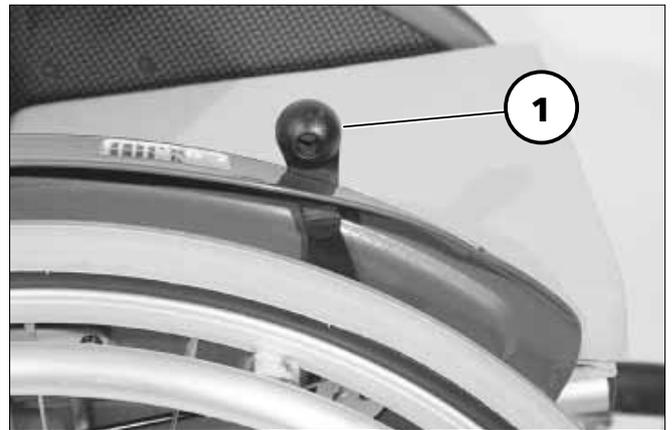
BRAKE

By locking the brakes with the brake lever (1), the wheelchair is secured against rolling away unintentionally (parking brake).

The locking brake belongs to the most important safety features of a wheelchair and is available as a pressure brake (2).

Attention:

- ⚠ Please observe the maintenance instructions as well as instructions in the section < *General safety instructions* > and < *Brakes* > in the safety instructions < *Mechanical wheelchairs* >.
- 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
 - loose or defective pressure brake.



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 and brake the wheelchair through the handrims.
 - Perhaps danger of jamming in the area of the brake!

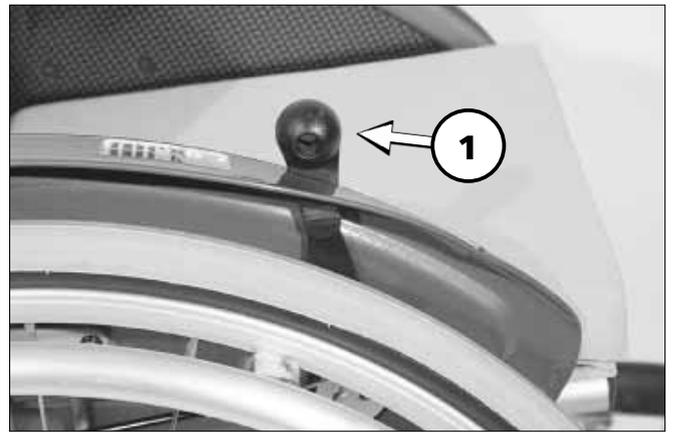
Pressure Brake

Locking the pressure brakes

To secure the wheelchair against any unintentional rolling, press both brake levers forward all the way (1).

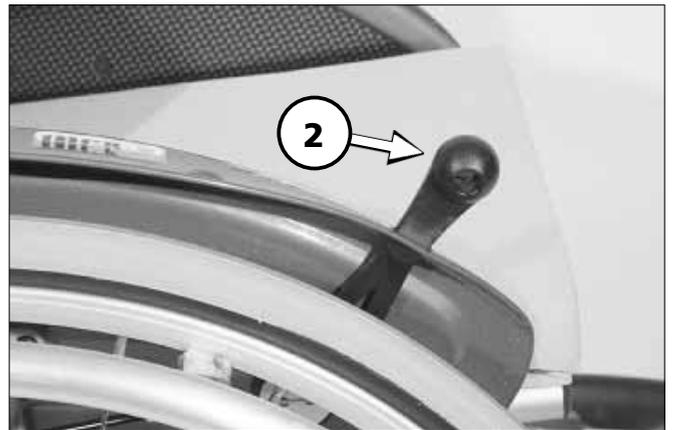
 **Note:**

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



Releasing the pressure brakes

Pull both brake levers back all the way (2).



Drum brake for attendant

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

The wheelchair is also to be secured against unintentionally rolling away (parking brake) by engaging these brakes.

Locking the drum brakes

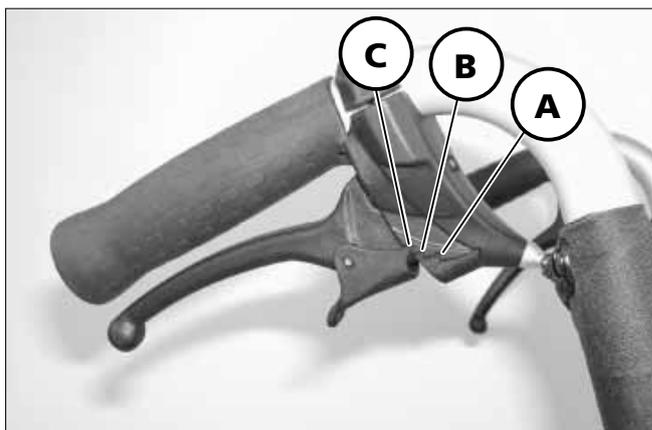
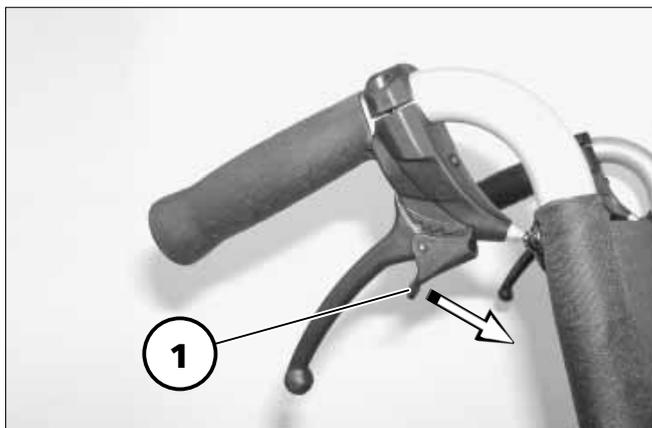
Pull both brake levers evenly to secure the wheelchair against unintentional rolling away.

Press the latch (1) forward.

Release the brake lever. – Depending on the adjustment the latch engages in the first (A) or second (B) locking position and activates the brake.

Note:

-  The wheelchair loaded with the user may not let itself be pushed in with the brakes engaged.
-  If the third locking position (C) is required to activate the brake, it must be readjusted by a specialist workshop.



Loosen the drum brakes

Pull both brake levers (1) until the latches (2) automatically jump out of the lock.

Release both brake levers. – The parking brakes are released and the wheelchair ready to go.

Attention:

! For driving the front and rear brake levers must be disengaged.

Note:

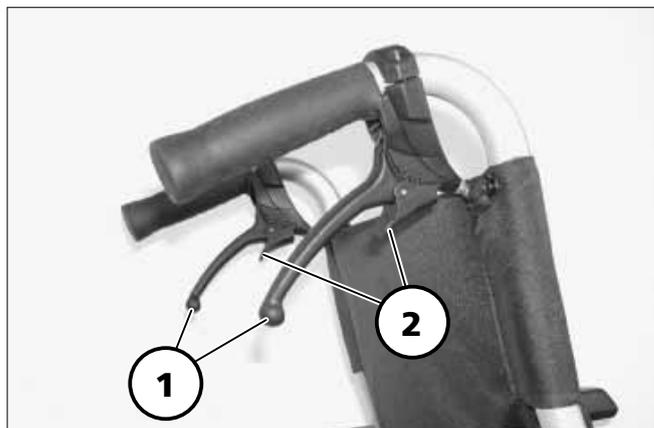
The braking effect depends upon:

- the condition of the tyres,
- the condition and attachment of the brakes,
- the brake lever adjustment,
- the road condition.

Attention:

! The braking effect decreases with:

- – worn brake pads,
- loose brake lever,
- defective drum brakes.
- If the effect of the brake lessens immediately have them readjusted in a specialist workshop.



FOOT BOARD

Footboards (1) are available that can be adjusted in height, angle and depth to the individual requirements.

Folding up the foot board

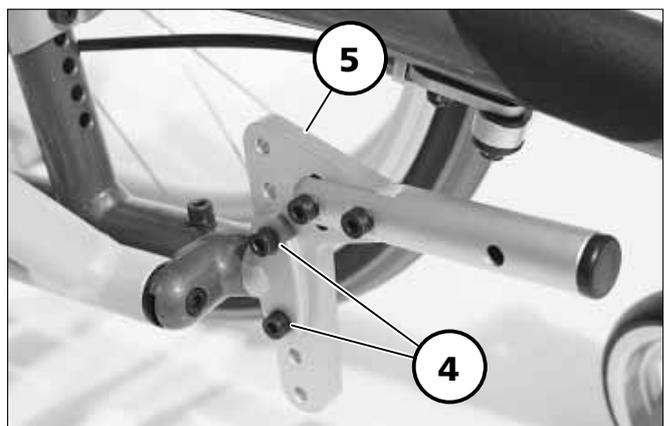
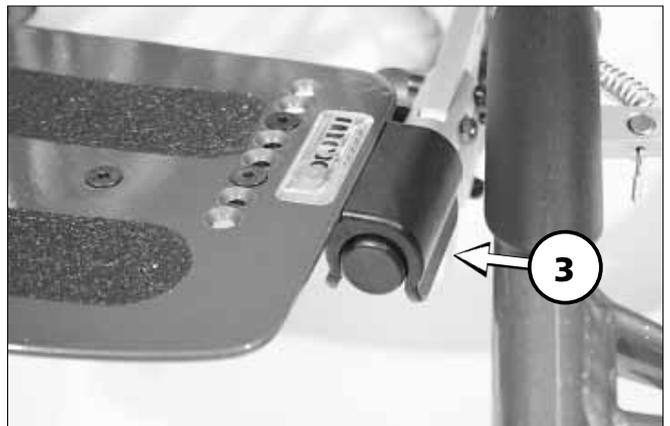
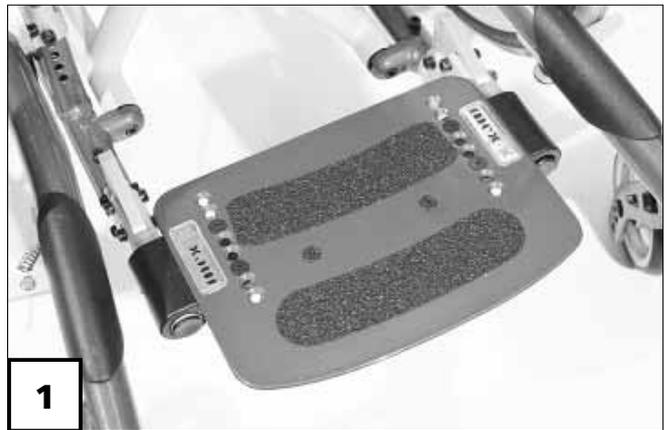
For an unobstructed foot area, fold up the left side of the foot board to the right as far as it will go (2).

Folding down the foot board

Fold down the left side of the foot board holder until it rests on the foot board tube (3).

Adjusting the height of the foot-board

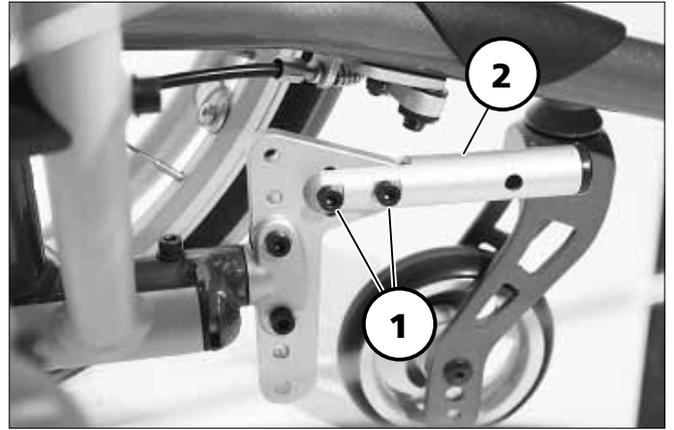
- Screw out the attachment screws (4) on both sides.
- Position the footboard holder (5) parallel, according to the desired height.
- Reassemble the attachment screws (4) on both sides.



Adjusting the angle of the footboard

The footboard can be adjusted by one position in both directions in angle.

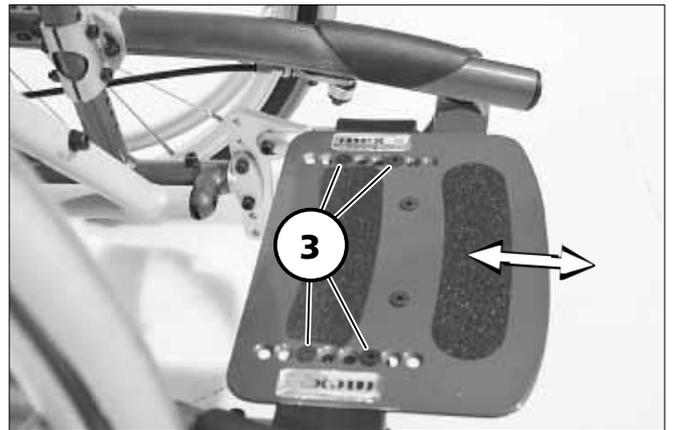
- Screw out the attachment screws (1) on both sides.
- Swivel the footboard tubes (2) parallel into the desired angle.
- Reassemble the attachment screws (1) on both sides.



Adjusting the depth of the footboard

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

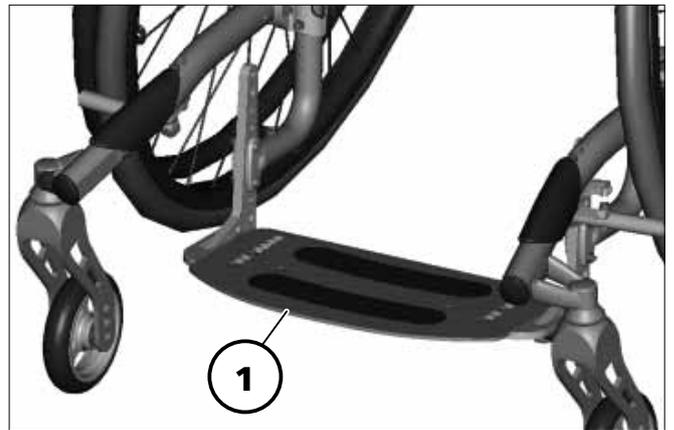
- Dismantle the screwed connections (3).
- Reposition the footboard in depth into the corresponding hole of the footboard bracket.
- Reassemble the screwed connections (3).



Folding footboard

Folding the footboard

The footboard (1) can be folded toward the rear and up (2) to achieve more space for the feet.

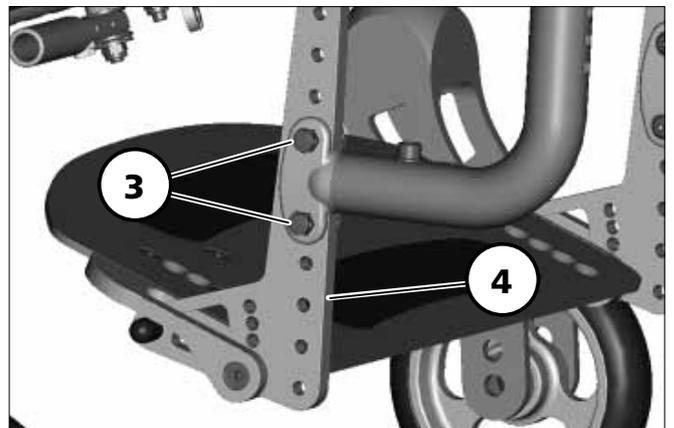
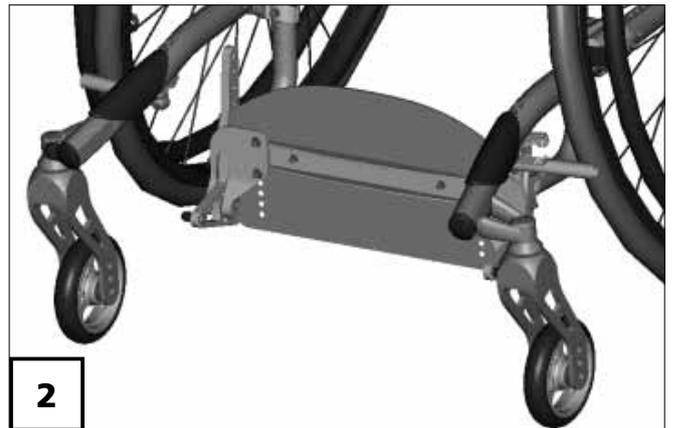


Folding down the foot board

Swivel the footboard down as far as possible (1).

Adjusting the height of the footboard

- Screw out the attachment screws (3) on both sides.
- Position the footboard holder (4) parallel, according to the desired height.
- Reassemble the attachment screws (3) on both sides.



Adjusting the angle of the footboard

The footboard can be adjusted by two positions each in both directions and angle (1)+(2).

- Screw out the attachment screws (3) on both sides.

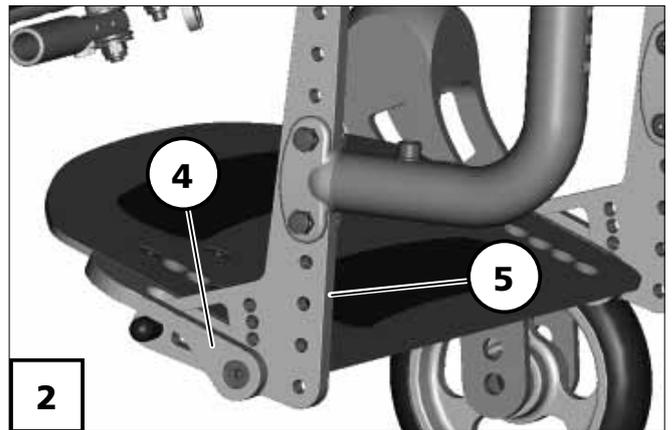
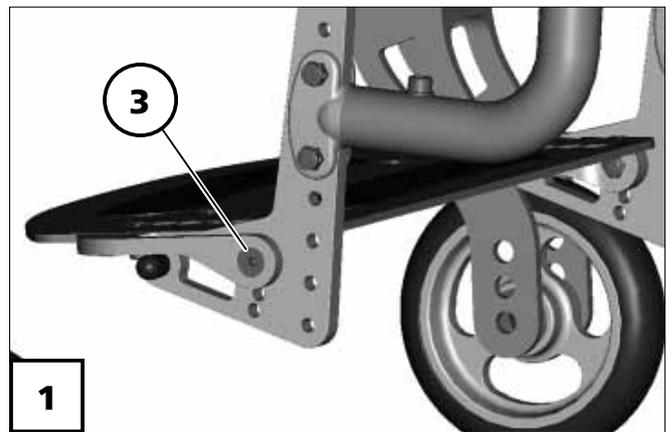
Note:

Watch for loose parts such as nuts and washers!

- Swivel the footboard bracket (4) parallel into the desired angle.
- Reassemble the attachment screws (3) on both sides.

Note:

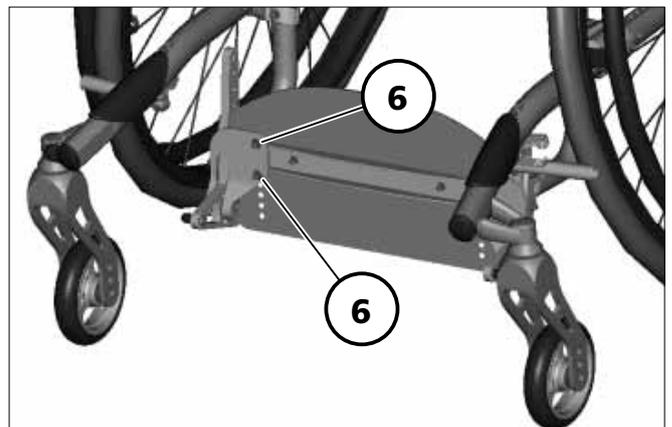
Make sure that one washer is located each on the inside and outside between the footboard holder (5) and footboard bracket (4)!



Adjusting the depth of the footboard

The footboard can be placed differently in depth for further positions.

- Screw out the attachment screws (6) on both sides.
- Reposition the footboard in depth into the corresponding hole of the footboard bracket.
- Reassemble the attachment screws (6) on both sides.



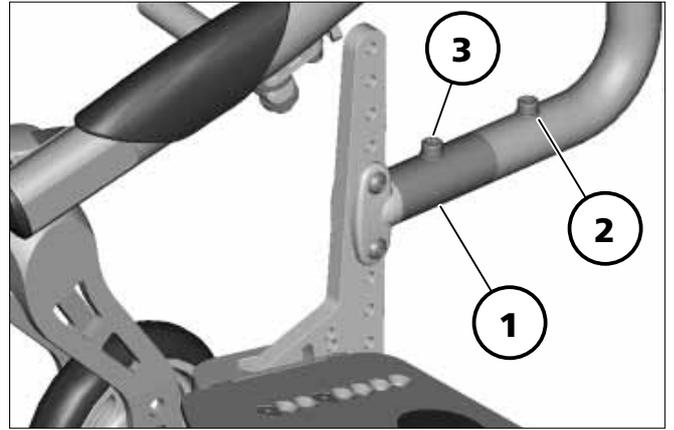
Depth adapter

The footboard is placed further toward the front by inserting the depth adapters (1) on both sides.

- Screw out the attachment screws (2) on both sides.
- Insert the depth adapters and mount them with the screws (2).
- Insert the footboard into the depth adapters and mount them on both sides with the screws (3).

Note:

Watch for loose parts such as nuts and washers!



ARM SUPPORTS

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

Attention:

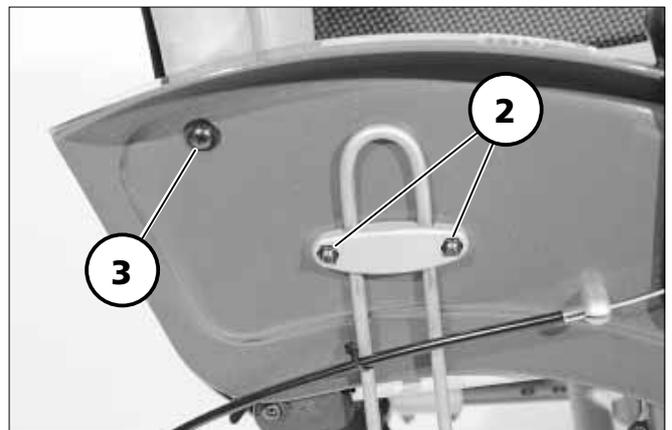
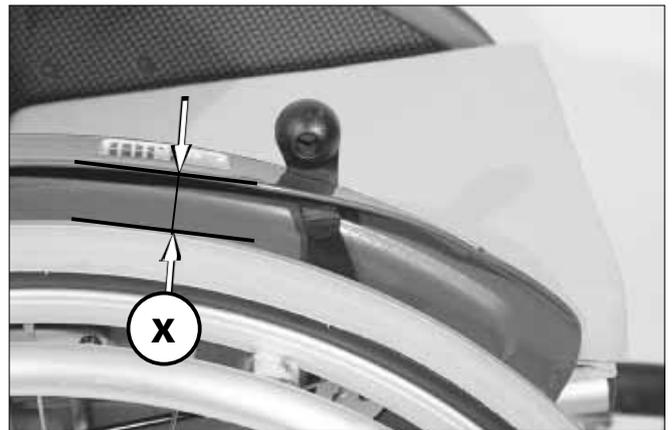
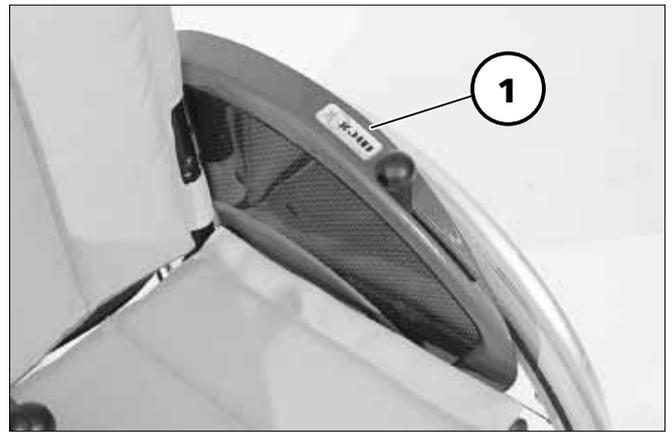
- ! Do not grab between the seat and back tubes and arm supports.
- – Danger of squashing!
- Do not lift the wheelchair using the side elements.
- The wheelchair should only be used with the arm supports assembled!

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. – Danger of crushing!
- Remove drive wheel (see Drive wheels section).
- Loosen clamping screws (2).
- Remove the screwed connections (3), if available.
- Position the arm support (1) to the equalising wheel circumference.
- Tighten the clamping screws (2).



ARM SUPPORT

Swivel up the arm supports

The arm supports (1) can be swivelled upward (2) when necessary.

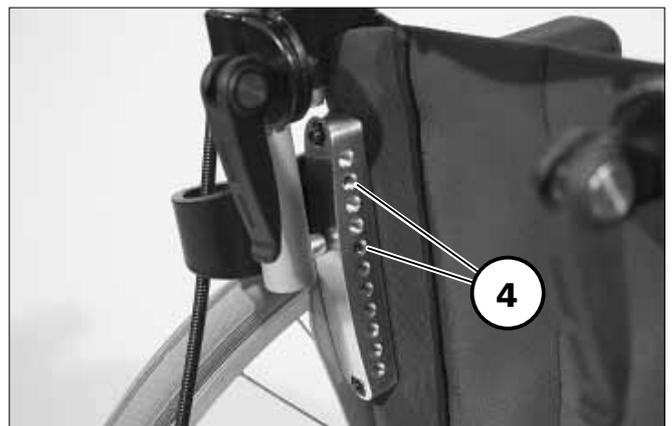
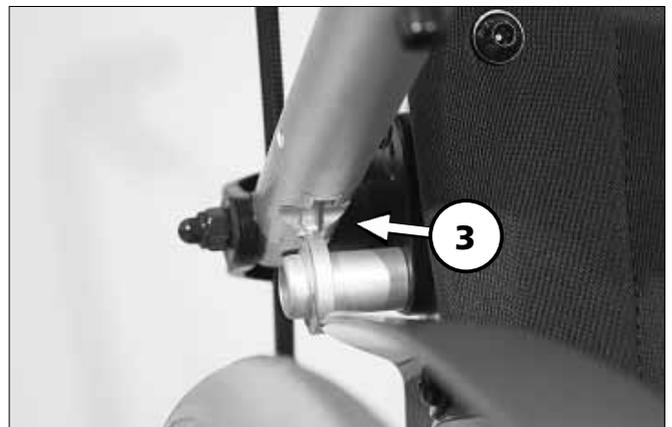
Swivelling down the arm supports

When swivelling down the arm support the collar of the stopper should glide into the groove of the arm support tube (3).

Adjusting the height of the arm supports

By repositioning the arm support the arm support height can be readjusted if required.

- Therefor first remove the attachment screws (5).
- After repositioning the arm support into a new attachment position, reassemble the attachment screws (4).



BACK SUPPORT

Adjustable back

The adjustable back is adjustable through a velcro strap, the so called spanning straps (2).

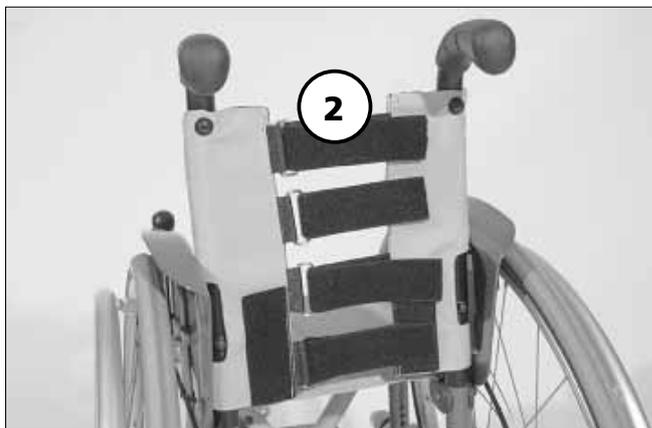
The cushion (1) is placed over it and attached with the velcro strap (3).

Note:

-  Adjustment of the adjustable back strap (2) is best achieved while the user is sitting inside the wheelchair.
-  Adjustment is carried out from the bottom to the top.
-  The lower part of the adjustable back should remain slightly loose so that it adapts to the buttocks when bending forward.

Attention:

-  The overlapping of the Velcro fastener has to be at least 10 cm!



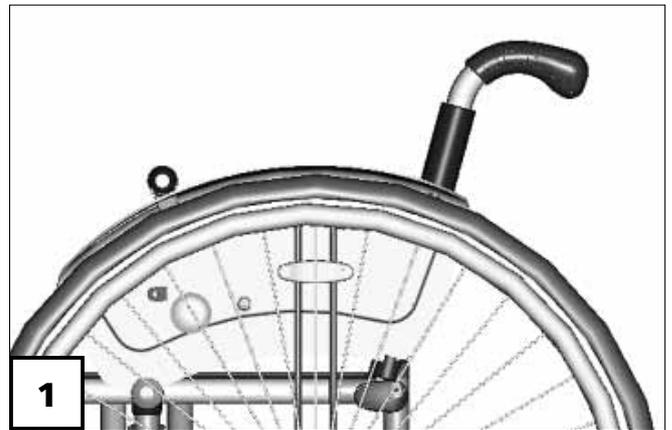
Angle adjustable back support code 29

The back support is adjustable by max. +/- 15° in three steps of 5° each (1)+(2).

- Loosen the attachment screws (3) on both sides.
- ☞ Priorly remove the drive wheel in order to loosen the screw of the left back support tube.
- Position the back support tubes parallel, according to the desired angle.
- After the adjustment retighten the screws (1) on both sides.

Attention:

- ! After each adjustment of the back support the screwed connection is to be checked for secure hold!



Height adjustable push handles code 502

The push handles (1) are steplessly height adjustable and secured against pulling out.

Height adjustment

- Secure the pushing handle with one hand against unintentionally falling down.
- Swivel the locking lever (2) up with one hand (3) until the respective pushing handle can be adjusted.
- Slide the push handle to the desired height.
- Swivel the clamping lever (3) back down (2).

Adjusting the clamping lever:

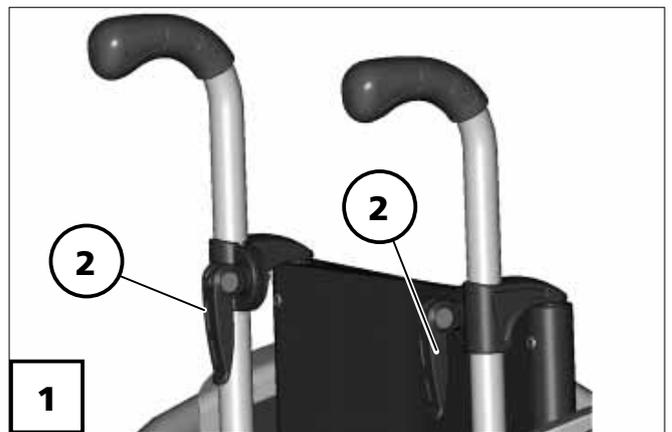
- Adjust the setting screw (4) to adjust the clamping force to the user.
- When the clamping force lessens readjust the setting screw (4).

Attention:

- ! After each adjustment the secure fit of the push handles is to be checked with a pull-/push test!

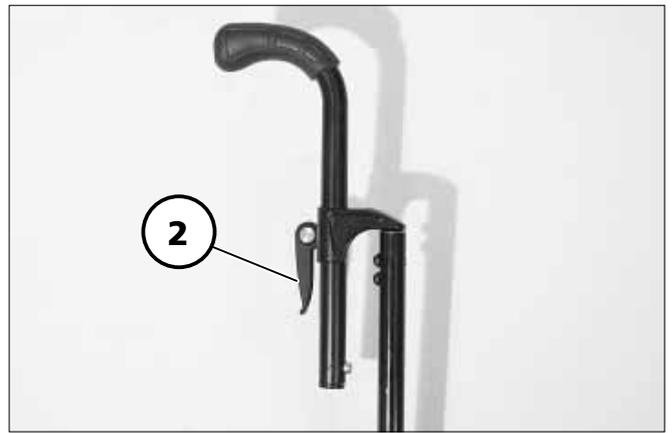
Note:

With the clamping lever swivelled down, the respective push handle may not let itself be moved.



Removing the push handles

- Secure the pushing handle with one hand against unintentionally falling down.
- Swivel the locking lever (2) up with one hand (3) until the respective pushing handle can be adjusted.
- Pull the pushing handle up as far as possible.
- Press the respective spring button (4) inward and pull the push handle out of the clamping device.



Inserting the push handles

- Press down the spring button (4) and insert the push handle from the top into the respective clamping device.
- Slide the pushing handle through the clamping device and swivel the clamping lever back down in the desired position (2).



Attention:

- ! After each adjustment the secure fit of the push handles is to be checked with a pull-/push test!

Note:

With the clamping lever swivelled down, the respective push handle may not let itself be moved.

Stabiliser rod

The stabiliser rod (1) stretches the back strap at the top, serves to attach the head support and is secured against being pulled out.

Note:

Only in combination with height adjustable push handles

The stabiliser rod can be removed in order to fold the wheelchair.

Removing/attaching the stabiliser rod

- Press the locking button (2) of the respective axle on both sides.
- Remove (3) or insert (1) the stabiliser rod.

Note:

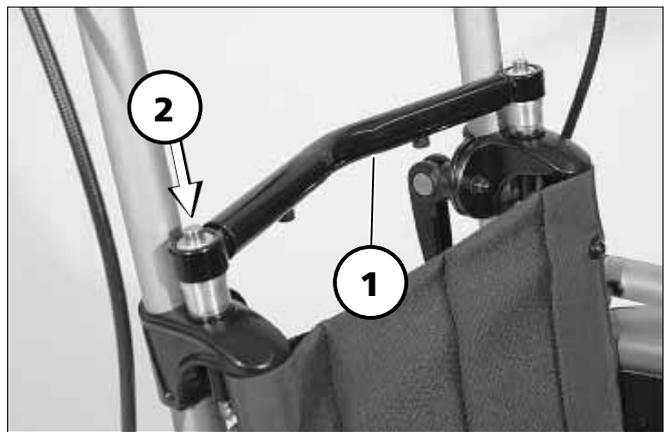
Always carry out a tensile test after inserting the axles!

Attention:

- ! After inserting the stabiliser rod
- the locking button must still protrude some millimetres from the axle.
- The stabiliser rod is secured.

Note:

The locking bolt of the axle is to 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.



HEAD SUPPORT

The headrest (1) is swivel proof, height adjustable and removable.

Adjustment of the head support

Note:

After inserting/adjusting the head support, the respective are to be retightened.

Height adjustment / removal

For height adjustment and removal of the head support loosen the clamping screw (2).

Attention:

! The maximum height adjustment is indicated by the marking!

Note:

The head support can also be taken off if necessary by removing the stabiliser rod (3).

Hereto observe chapter < Stabiliser rod >.

Positioning

Positioning of the head support is achieved after loosening the clamping screws (4).

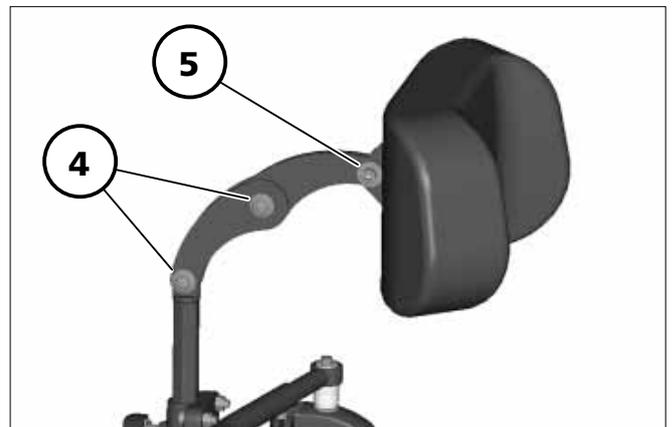
Angle adjustment

Slacken the clamping screw (5) for angle adjustment.

Head support cover

The head support cover can be removed with the zipper for washing.

Therefore observe the label with the washing instruction.

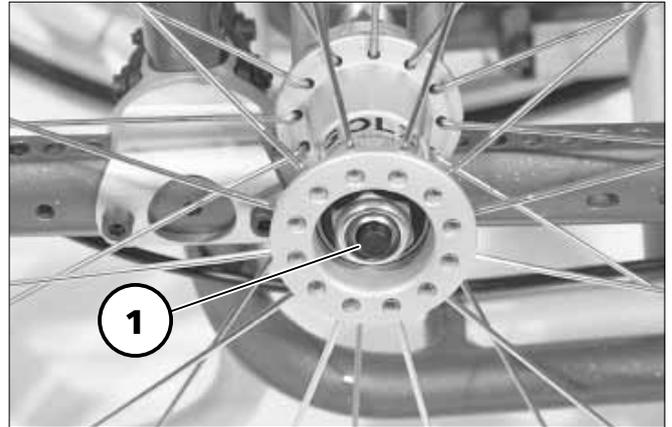


WHEELS

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:

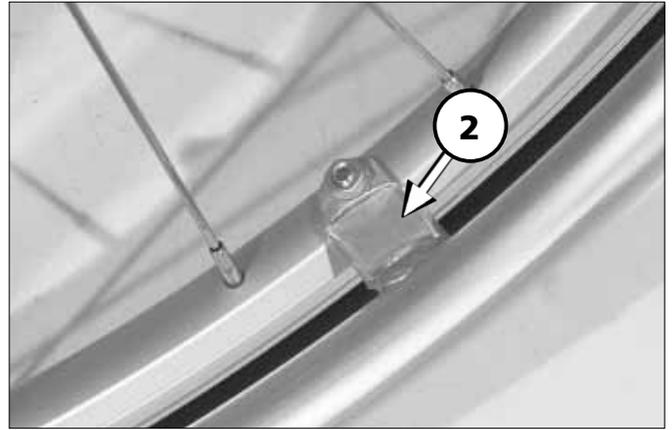
The stop bolt must be kept clean. A functional fault may occur in the case of contamination due to sand or earth or in the event of freezing of moist cold air.

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.



Hand and 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.

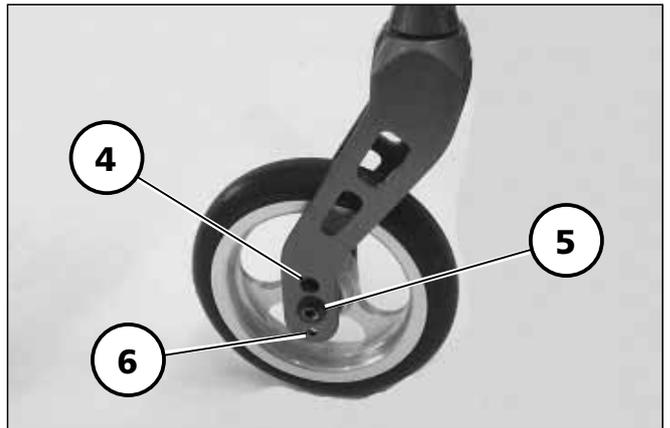
- The spoke guard is attached to the spokes with three clips (3).

Note:

Under < www.blueprince.de > further designs can be selected to exchange the hand and spoke guard.

Attention:

- ! Exchanging or replacing of the
- hand and spoke guard is to be done by the specialist dealer.



Steering wheels

Steering wheel position

The position of the steering wheel and steering fork depends on the diameter of the steering wheel:

- Position (4):
Steering wheel 6" (Ø 150 mm)
- Position (5):
Steering wheel 5" (Ø 125 mm)
- Position (6):
Steering wheel 4" (Ø 100 mm)

SETTINGS

If necessary the following adjustments can be made retrospectively for the user:

- the seat depth,
- the front seat height (1),
- the rear seat height (2),
- the seat angle,
- the axle distance (balance point),
- the lower shank length (3).

Note:

 The adjustment of the respective feature to the user should be carried out by a specialist dealer!

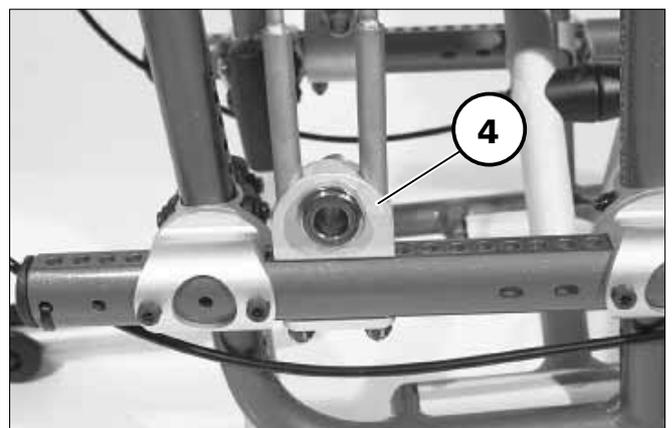
 For a faultless driving behaviour the adjustments should be carried out evenly on both sides.

Balance point

The balance point can be adjusted by repositioning the wheel adapters (4).

Attention:

- ! The overturning risk increases with
- a reduction in the axle distance (forward displacement of the wheel adapter)!



Wheel camber

The wheel camber can be set to 3°, 6° or 9° by way of different axle mount adapters (5).

Note:

Assembly should be carried out in a suitable specialist workshop!

Adjusting the wheel camber

1. Detach the drive wheels.

 Hereto observe chapter < *Wheels* >.

2. Loosen the clamping screws (6) of the clamp.

3. Unscrew the centring screws (7) rather far and pull the axle receptacle adapters (2) out.

4. Insert the quick-release axle adapter (5) with the desired wheel camber into the receptacle tube.

 In doing so the centring hole faces upward, vertically to the lower frame tube.

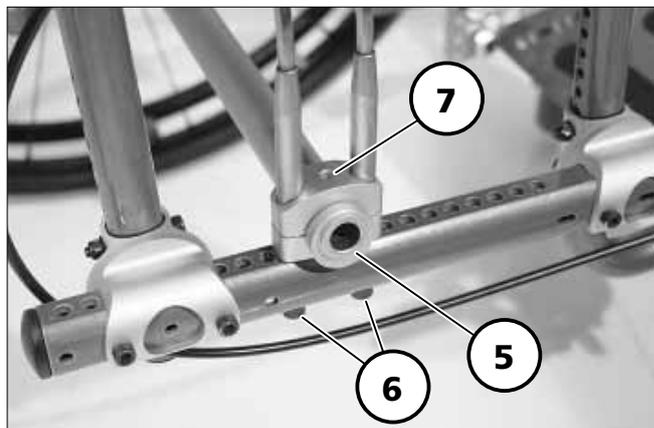
5. Turn the centring screws (7) into the respective centring hole.

 This makes an adjustment of the toe-in unnecessary.

6. Retighten the clamping screws (6) of the clamp.

7. Replace the drive wheels.

 Hereto observe chapter < *Wheels* >.



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 threaded into the respective back support tube. The position of the seatbelt loops are previously defined by a freeing in the back strap.

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.

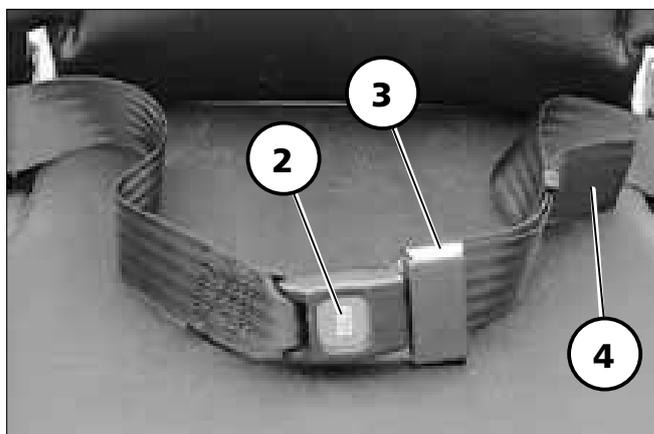
Fastening the seatbelt with buckle

- 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 WHEELS

The support castors serve to increase the tilting stability.

Attention:

- ! In certain situation the support castors do not provide sufficient protection against falling over.

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:

- 👉 Observe the safety and general handling instructions < *Mechanical wheelchairs* >!

Swivel-away support castors

The swivelling support castors (1) can be swung inward under the seat (2).

- 👉 Swivelling of the support castors can be done by an attendant or aid.

Swinging the support castors

First press the support castors down out of the lock then swivel them under the seat (2), or toward the back (1) until the respective lock engages automatically.

👉 Note:

This function can be performed with the foot.



Stick-in support wheels

Removing/attaching the support castor

Press the respective spring button (4) in order to remove (1) / insert (2)+(3) the support castors.

When replacing the support castors (2)+(3) slide them in until the spring button automatically snaps into place.

Note:

The spring button must engage visibly and audibly. – Check the function!

Adjusting the support castor

Press the spring button to adjust the support castor (2), the reposition the support castor accordingly until the spring button automatically locks into the next position.

Note:

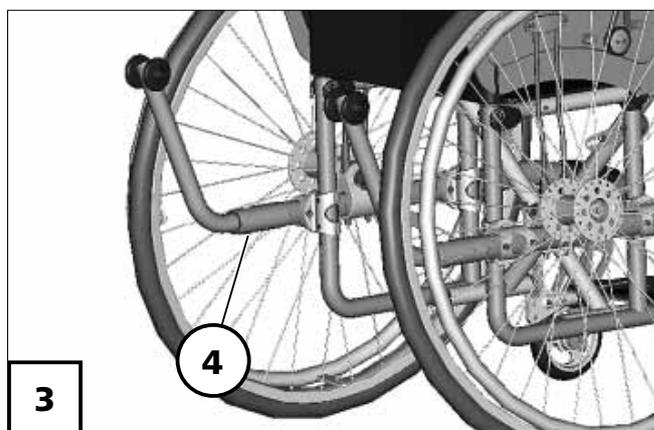
The spring button must engage visibly and audibly. – Check the function!

Correct support castors length

The support castors must reach further out than the drive wheels in order to achieve a sufficient support function.

Attention:

-  For sufficient tilting stability both support castors are to be positioned evenly.
- Have the function checked by the specialist dealer after each change to the seat height and wheel size!



Note:

Therefore observe the safety instructions < *Mechanical wheelchairs* > chapter < *Inclinations, overcoming obstacles* > as well as < *Driving on elevators, lifts and escalators* >!

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

Clean the upholstery and covers with warm water and hand wash lotion. Spots can be removed with a sponge or a soft brush.

Note:

- Wash off persistent dirt with commercial fine detergent.
-  Do not soak! Do not machine wash!

Follow-up with clean water and allow to dry.

Plastic parts

The arm supports and parts are made of high-quality plastic.

-  Only clean the plastic parts with warm water and neutral detergent or soft soap.

Attention:

-  The arm supports are made of polystyrene and are affected by non-ionic tensides as well as through solvents and especially alcohol.
-  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

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>Before starting out</p>	<p>Test brakes for faultless operation</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>Check brake for wear Move brake lever to the side</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"> – Danger of accidents!
	<p>Check all screwed on parts for secure fit</p>	<p>The following is to be checked with great care:</p> <ul style="list-style-type: none"> – Attachment of the back- and seat profiles at the side frame, – attachment of the footplate to the side frame, – attachment of the stabiliser rod underneath the seat surface.

Maintenance schedule

WHEN	WHAT	Remark
<p>Before starting out</p>	<p>Check air pressure of the tyres</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>Use a tyre pressure tester or, if not available, the 'thumb press' method or similar (view Safety instructions < <i>Mechanical wheelchairs</i> > chapter < Brakes >).</p>
	<p>Check tyre profile</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>Check the back tubes and frame tubes for damages.</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
<p>Every 8 weeks (depending on distance covered)</p>	<p>Lubricate the following components with a few drops of oil</p> <ul style="list-style-type: none"> – Moving parts of the locking mechanism. – Brake lever bearings. <p>Check all screw connections for secure fit</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>
<p>Every 6 months (depending on frequency of use)</p>	<p>Check:</p> <ul style="list-style-type: none"> – Cleanness. – General condition. 	<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:

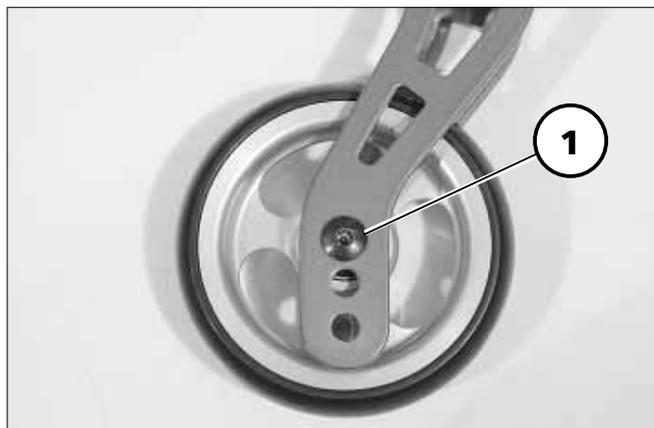
Always change tyres in pairs. – Differently worn tyres can impair the straight-on travel of the wheelchair.

! 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!

Replacement of the steering wheels

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

Note:

- Note: Always replace the steering wheels in pairs.
- Note: Take note of the arrangement of all sleeves and washers used.

Adjusting the brakes

The brakes are to be checked for function according to the < *Maintenance schedule* > as well as after each repositioning of the drive wheels and readjusted if necessary.

Pressure brake:

1. Loosen the counter nut (2).
2. Then screw out the adjustment screw (1) for tuning.

☞ At the same time counter the nut (3) in order to prevent it from also turning.

3. Afterwards retighten the counter nut (2).

☞ **Note:**

Inspect function and accurate fit of the pressure brake.

4. Adjust the opposite pressure brake as described.

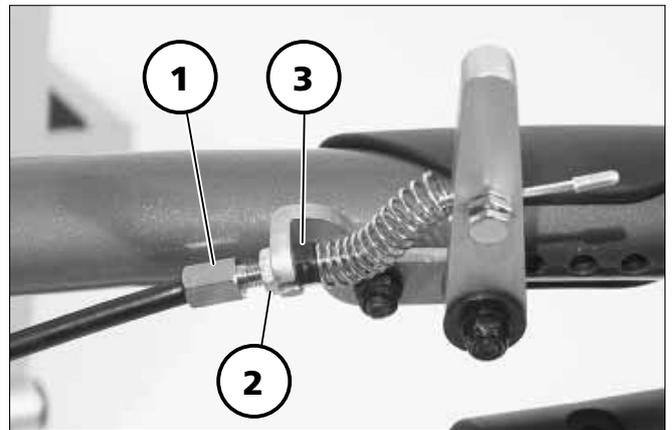
☞ **Note:**

☞ The pressure brakes are to be adjusted evenly with regard to

- tread of the drive wheels,
- air pressure of the tyres and
- user weight.
- Danger of accidents caused by one sided braking effect!

☞ The wheelchair may not let itself be pushed with activated brakes.

- If necessary have the pressure brakes repaired in a workshop.



Repositioning the brakes

After each repositioning of the drive wheels (wheel base extension) both brakes are to be checked for function and repositioned if necessary.

Note:

Repositioning of the brakes as well as the required adjustment should be carried out by the specialist dealer!

1. Remove the cover cap (1) of one pressure brake (2).
2. Remove the screws (3) of the pressure brake.
3. Preadjust the respective pressure brake by repositioning.

Preadjustment of the pressure brake:

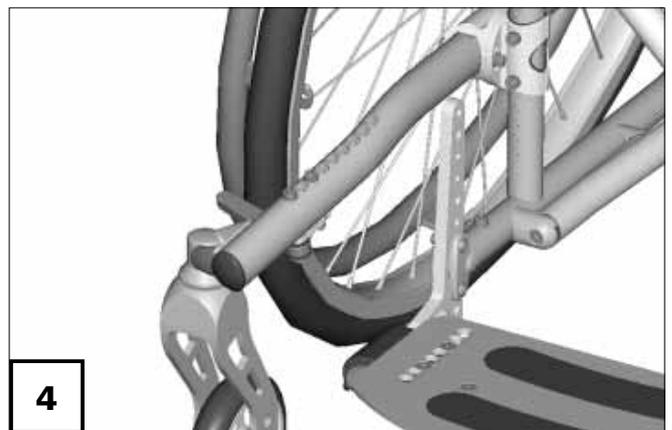
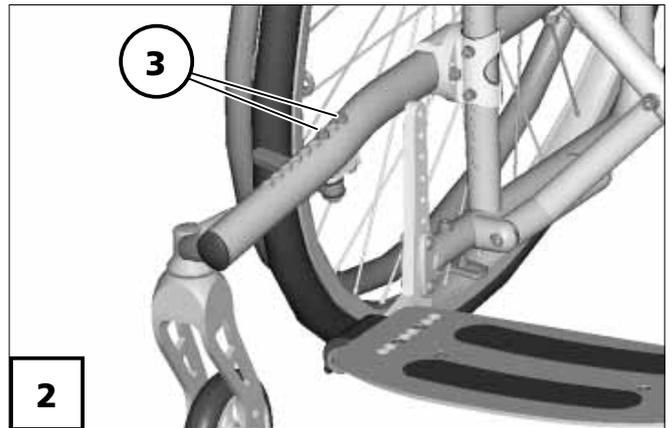
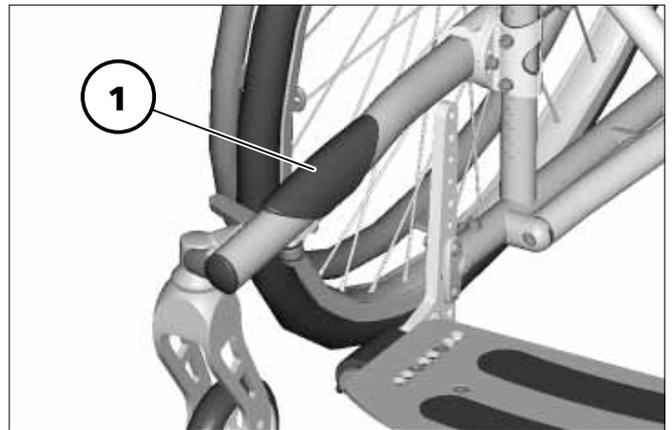
– For this slide the brake bolt of the activated pressure brake directly in front of the drive wheel and align it at a right angle to the drive wheel. Afterwards loosen the brake and push it back 5 mm towards the drive wheel.

4. Remount the screws (3) of the pressure brake in the corresponding position (4).

 Adjust the pressure brake as described in chapter < *Adjusting the brakes* >.

5. Remount the cover cap (1) of the pressure brake.

Reposition the opposite pressure brake as described.



Adjusting the drum brake

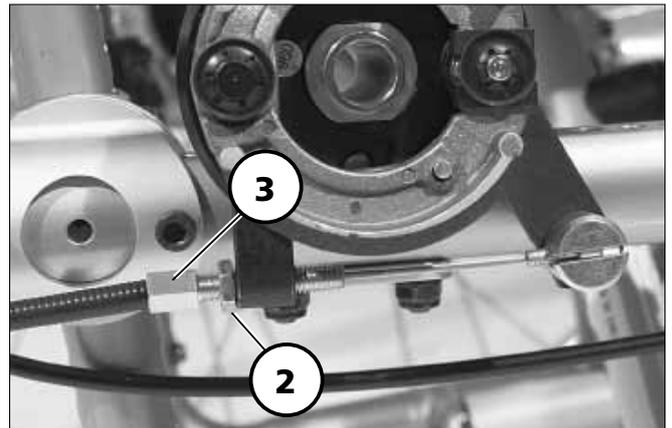
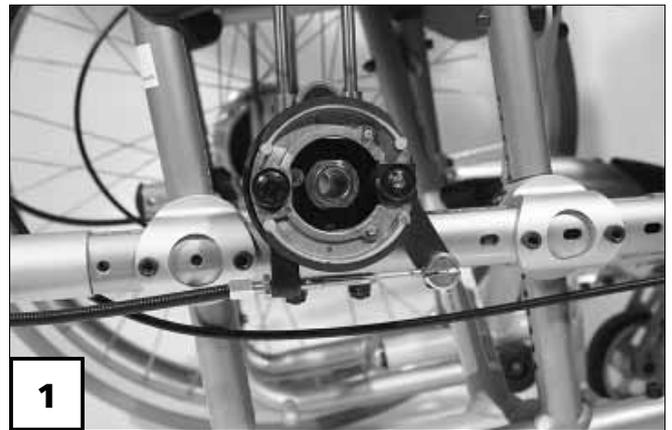
1. First loosen the conternut (2) in order to adjust the or readjust the drum brake (1).
2. Then screw out the adjustment screw (3) for tuning.
3. Afterwards retighten the counter nut.

 **Note:**

The wheelchair loaded with a person may no longer let itself be pushed with activated brakes (second engage position, view chapter < *Locking the drum brakes* >).

Attention:

- ! Adjust the drum brakes evenly. – Danger of accidents caused by one sided braking effect!
- The adjustment must be carried out by educated personnel.



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 (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 cushion and back cushion. If necessary, clean the vehicle or the modules before the visual check.

Visual check

- Check the frame, add-on components and accessories for damage, corrosion and damaged paintwork.

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 and adjustment straps 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.:

Vehicle identification No.

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

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Recommended safety inspection (at least every 12 months)

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Place, date: _____

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(at least every 12 months)**

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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:.....**MEX-X 1.130, MEX-S 1.134**

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

Two frames are available:

- MIDI (only with 20" and 22")
- MAXI (only with 24")

Dimensions

Length (depending on the position of the drive wheel)

Frame MIDI (min. / max.):.....60.5 / 66.5 cm

Manufacturer setting MIDI:66.5 cm

Frame MAXI (min. / max.):67 / 73 cm

Manufacturer setting MAXI:.....73 cm

Width

with 3° wheel camber:(SW) + 24.5 cm

with 6° wheel camber:(SW) + 31 cm

with 9° wheel camber:(SW) + 37 cm

Height

min. / max.:..... (RSH) + (BH) + 6 cm

Back support belt height

each adjustable by +30 mm (in 20 mm steps): 240 to 400 mm

Seat width (in 20 mm steps): 240 to 400 mm

Seat depth MIDI (in 20 mm steps): 240 to 340 mm

Seat depth MAXI (in 20 mm steps):..... 280 to 380 mm

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

MIDI (variable): 340 to 450 mm

MAXI (variable):..... 370 to 480 mm

Seat cushion thickness:..... 3 / 6 cm

Seat inclination

adjustable:..... 0° / 3° / 6° / 9°

Thigh length

without seat cushion: 14 to 38 cm

Height of push-handles:

Code 502 (steplessly adjustable):..... 20 cm

Wheels

Steering wheel

4", resp. Ø 100 mm:..... solid rubber

5", resp. Ø 125 mm:..... solid rubber

6", resp. Ø 150 mm (only on MAXI):..... puncture proof

Driving wheel

24": puncture safe

20" / 22" / 24" high-pressure tyres: 8 bar = 116 psi

20" / 22" / 24" PU-tyres: puncture proof

Transport dimensions:

Length (without drive wheels)

Frame (MIDI): 55 cm

Frame (MAXI): 59 cm

Temperatures

Ambient temperature: -20° C to +40° C

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

Permitted inclination/slopes

Permitted inclination:..... 8 %

Permitted slopes: 8 %

Stability against tipping over: 8 %

Weights

Permissible total weight*:	max. 85 kg
Max. permissible user weight (including additional load):	75 kg
maximum additional load:	10 kg
Empty weight: (with drive wheels)	min. 10 kg
Seat cushion:	0.7 kg
Transport weight: (without drive wheels)	min. 7.5 kg

*

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

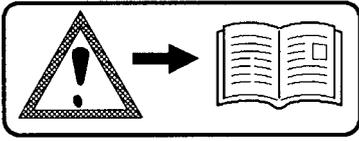
Thread diameter M 6..... 10 Nm

Thread diameter M 8..... 25 Nm

Thread diameter M 10 50 Nm

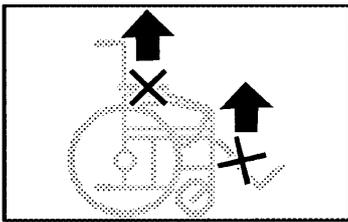
Thread diameter M 12 85 Nm

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.

NOTES

NOTES

GUARANTEE

We accept a guaranty for this product according to the legal regulations. Apart from this we warrant:

- **2 years** for frame.

We reserve the right to make technical improvements.

In case you find fault in this product or parts thereof, send in the following guarantee-segment with your description of the fault.

Do not forget to include the requested information regarding model description, delivery note number with date of delivery, vehicle identification number (Fz-I-Nr.) and your retailer.

The vehicle identification number (Fz-I-Nr.) is indicated on the type plate.

Pre-condition 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, damages to the product caused by improper cleaning using steam cleaning equipment or the deliberate or accidental flooding of the components are also excluded.

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.



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

GUARANTEE COUPON

Fill in the details! If necessary, copy and return.

Guarantee

Model designation:

Delivery note no.:

Vehicle ID No. (Fz-I-Nr.) (view type plate):

Date of delivery:

Stamp of the dealer:



┌ Your specialist dealer: ┐

└

┘

MEYRA[®]
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