

# ***Adaptive wheelchair***

*Model 1.155*

**en**

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## ***Operating manual***

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# MEANING OF THE APPLIED MARKERS

Safety instructions with a coloured background are mandatory and need to be observed under any circumstance!


-  This symbol indicates tips and recommendations
- [ ] Reference to a picture number
- ( ) Reference to a function element within a picture.

## INTRODUCTION

Read and observe this manual before first operation.

Children and juveniles should read this documentation together with their parents respectively a supervisor or accompanying person before first use.


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

-  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.

Users with visual impairments can find the PDF-files together with further information on our website:

< [www.meyra.com](http://www.meyra.com) >.

-  Contact your specialist dealer when required.

Inform yourself regularly about product safety and possible recalls of our products in the < *Infozentrum* > on our website:

< [www.meyra.com](http://www.meyra.com) >.

Our implemented assembly groups and components fulfil the demands of the

norms of correspondence acc. to EN 1021-2 for durability against inflaming. Furthermore the wheelchair complies with the EN 12183 with all associated relevant international norms (thus also ISO 7176-8).

## LIST OF MODELS



This operating manual applies to the following model:

Model 1.155

## INDICATIONS

In case of allergic reactions, skin rashes and/or pressure sores during the use of the wheelchair sores contact a doctor immediately.

If the following indications occur we recommend the application of this mobility product:

-  Walking disability resp. extremely limited walking ability as part of the basic need to move around in your own home.
-  The need to be able to leave home for a short walk in fresh air or in order to reach the places, commonly in the perimeter of the home, required to fulfil basic needs.

## ACCEPTANCE

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

- ✎ However, we request that you check the vehicle for possible transport damage immediately on receipt – preferably in the presence of the carrier.
- ✎ The packaging of the wheelchair should be stored for a further transport that might become necessary.

## SPECIFICATIONS

The wheelchair was developed for adults and adolescents. The wheelchair solely serves to transport one person in the seat and not as a hauling aid, transporter or similar.

## USE

Do not reach into the spokes or grip the tyres of the rotating wheels. – Danger of injury!

Do not reach into the space between the pressure brake and the tyre when propelling the wheelchair. – Danger of injury!

Avoid a jerky propulsion of your wheelchair. – Danger of tipping over or tilting!

Do not use the wheelchair without attached leg supports and arm support units!

In certain configurations your wheelchair might exceed the maximum dimensions of emergency routes. Always make sure whether possible escape routes are wide enough for your wheelchair.

The wheelchair is applicable on level, firm surfaces and can be used as follows:

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

✎ In specific dimensions (overall height, overall width, overall length, turning radius) your wheelchair is not suited for transport within a train.

✎ Get information on possible limitations before the transport.

- transport within an airplane should only be done with PU-tyres.
- ✎ Ask the airline for possible limitations before transport in an airplane.
- Never expose the wheelchair to extreme temperatures and damaging environmental conditions, such as sunlight, extreme cold or salty water.
- Sand and other dirt particles can seize on moving parts and render them without function.
- Use only the handrims on the drive wheels to propel your wheelchair.

You must not let yourself be carried in your wheelchair by having the wheelchair lifted from the floor. Parts that are not securely fixed, e.g. side elements or leg supports, can come away and thus cause an accident.

✎ The wheelchair is a vehicle and not a carrying device.

Only apply the wheelchair within the scope of the specifications and limitation described in chapter *Technical data* on page 29.

## ADJUSTMENT

Always have adaptation, adjustment or repair work carried out by a specialist dealer.

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.

- ✎ 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.

## REINSTALLMENT

The wheelchair is suited for reinstallation. With the building block system the wheelchair can be fit to accommodate different handicaps body sizes. Before reimplementation the wheelchair is to undergo a complete inspection.

- ✎ Hygienical measures required for reinstallation are to be carried out according to a validated hygienic plan and must include disinfection.

## LIFE SPAN

We expect an average life span of about 4 years for this product, as far as the product is applied for its designated purpose and all maintenance and service guidelines. The life span of your product depends upon the frequency of use, the application environment and care. The implementation of spare parts can prolong the life span of the product. As a rule spare parts are available up to 5 years after production is discontinued.

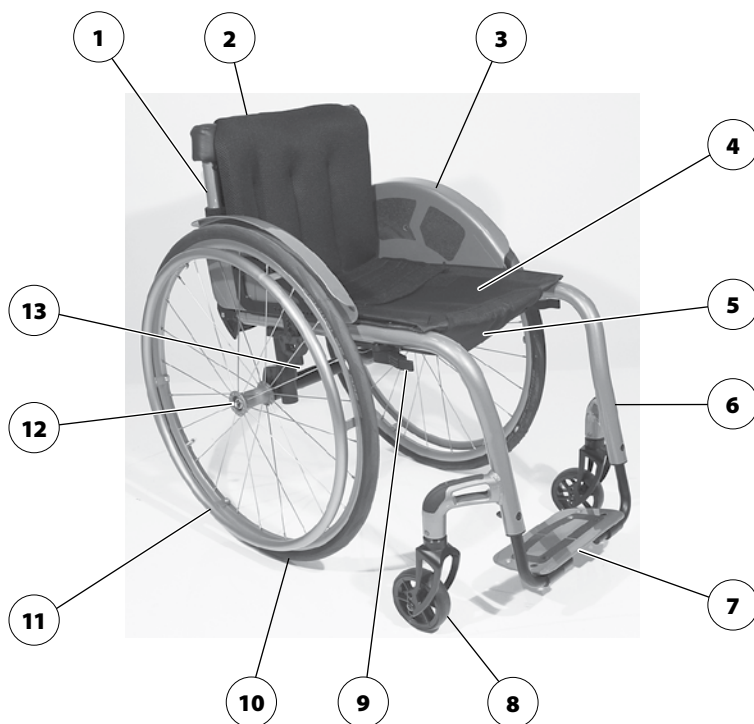
- ✎ The indicated lifespan does not constitute additional guarantee.



# OVERVIEW

## Model 1.155

The overview shows, representative for all models, the most important components of the wheelchair.



Pos. Description

- |  |  |
|--|--|
| (1) Back support                                 | (7) Footboard                          |
| (2) Back support strap / Back support upholstery | (8) Steering wheel                     |
| (3) Clothes guard                                | (9) Pressure brake / Swing brakes      |
| (4) Seat belt/seat cushion                       | (10) Driving wheel                     |
| (5) Utensils bag                                 | (11) Handrims                          |
| (6) Slanted front section                        | (12) Locking knob – Quick release axle |
|  | (13) Type plate – axle tube            |

# BRAKE

Arrange an immediate repair of the brakes by your specialist workshop if the braking performance reduces.

Wheelchairs with PU-tyres should be stored safely without activated pressure brakes in case of longer standing periods.

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

## Pressure brake - user

### Locking the brakes

To secure the wheelchair against any unintentional rolling, press both brake levers forward all the way [3].

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

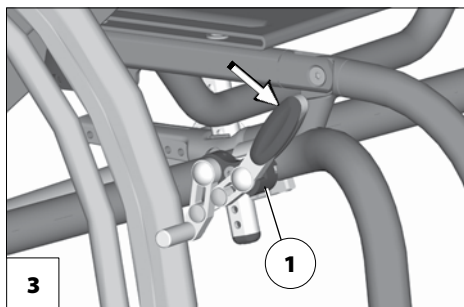
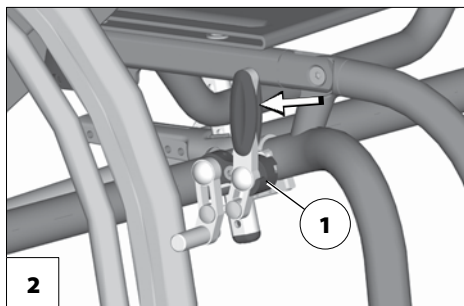
### Releasing the brakes

Pull both brake levers back all the way [2].

### Service brake

The wheelchair is braked down with help of the handrims.

- If needed use suitable gloves in order to brake down the wheelchair.

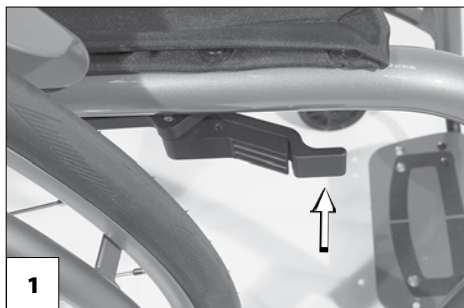


## Swing brake- user

### Locking the brakes

To secure the wheelchair against any unintentional rolling, swivel both brake levers outward all the way [2].

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



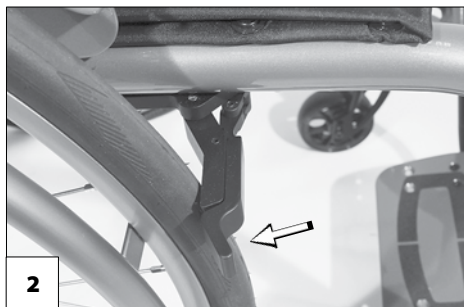
### Releasing the brakes

Swivel both brake levers inward all the way [1].

### Service brake

The wheelchair is braked down with help of the handrims.

- If needed use suitable gloves in order to brake down the wheelchair.



# LEG SUPPORTS

Before any actions on the leg supports the wheelchair is to be secured against unintentional rolling motions.

Therefore observe chapter *Brake* on page 10.

## Calf belt

Do not drive without the calf belt. – Danger of accidents.

The removable calf belt (1) prevents the feet from sliding off the back of the footboard.

### Removing the calf belt

To remove the calf belt, open the velcro fastener (2).

### Attaching the calf belt

For attachment, guide the calf belt through the attachment jig [3] and close the velcro fastener (2).

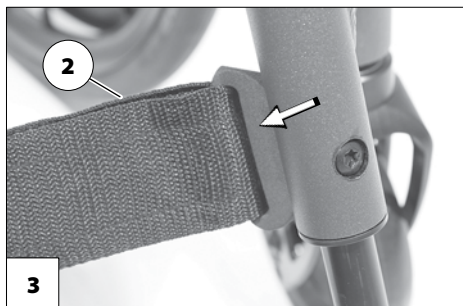
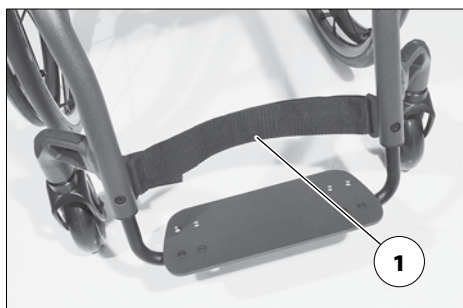
### Length adjustment of the calf belt

For length adjustment, the calf belt is guided around the special attachment pins [3] and adjusted in length with a velcro fastener (2).

## Footboard

Have the adjustments carried out in your specialist workshop.

The footboard [4] can be adjusted height, angle and depth to accommodate your individual requirements.



# CLOTHES GUARD

Do not use the clothes guard to lift or carry the wheelchair.

Do not drive without the clothes guard.

No not grab between the frame and clothes guard. – Danger of squashing!

When being pushed in the wheelchair by the accompanying person the user has to keep his hands on the arm supports or in his lap and not at the sides between body and arm support. – Danger of squashing the fingers!

During the sideward transfer without clothes guard there is a danger of unintentionally activating the brakes and soiling of the clothes through the drive wheel.



The clothes guard [1] (depending on model and version) is firmly attached or removable and simultaneously serves as a clothes and wind guard.

## Removable clothes guard

### Removal of clothing guards

To remove the clothes guard, pull it upward [2].

### Inserting the clothes guard

To insert the clothes guard, press it from the top into the receptacle [1].

# BACK SUPPORT

## Adjustment of the back support angle

First pull or press the rope (3) in the middle in order to adjust the angle of the back support. Then swivel the back support into the next possible latching position [1]. – The pressure bolt must audibly lock into place.

- ☞ Check the engagement of the back support with a quick jerk.
- ☞ The greasing of the thrust bolts is recommended for an easier latching of the backrest.

## Folding over the back support

The back support [1] can be folded down for storage or transport [2].

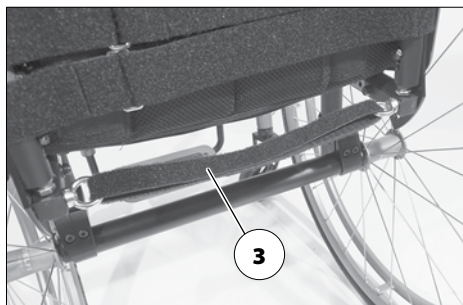
Then unlock the back support by pulling or pressing the rope (3) and fold it onto the seat [2] until the pressure bolt of the rope audibly locks into place.

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

## Folding up the back support

First pull or press the rope (3) 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.
- ☞ The greasing of the thrust bolts is recommended for an easier latching of the backrest.



## Back support belt

### Fitting the back belt

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

The tension of the back support is adjustable.

1. Pull off the flap of the back support and fold it to the front [4].
2. Open the Velcro fastener of the belt that you wish to adjust and close it again after adjustment.
3. Pull the back belt to the back again and attach the velcro strap [5].



## Removing the back support upholstery

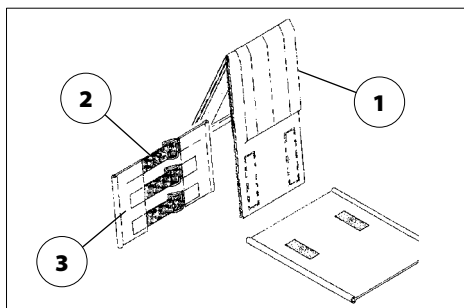
For removal, first pull off the rear part of the back support upholstery (1), then fold it over to the front and pull it off of the adjustable back strap (2).

## Placing the back support upholstery

For placing the back support upholstery (1), lay it centred around the upper velcro straps (2) and attach it to the adjustable back strap with the velcro fasteners (3).

- ✎ For a soft upper edge you should leave a little space between the upper spanning belt (2) and the folded back support upholstery (1).
- ✎ When the user leans against the back support upholstery (1) again, pay attention that:
- ✎ The pressure of the back must be spread evenly throughout the back support upholstery.
- ✎ A complete hand should fit in between the cushion and back at the upper edge of the back support upholstery.
- ✎ The head of the user must be held in balance through the adjustment of the spanning straps.

The extended parts of the back support are fastened to the top or bottom seat surface depending on the adjusted back support height [4].





# PUSH HANDLES

The height adjustable push handles are about 150 mm continuously height adjustable and secured against being pulled out [1].

## Push handles with clamping device

- ✎ In doing so, hold onto the push handle that is to be adjusted with one hand.
- ✎ After each adjustment the clamping lever is to be tightened sufficiently, so that the push handle cannot be turned anymore.

### Height adjustment:

Loosen the clamping screw with the clamping levers (2) so far that the respective push handle can be adjusted into the desired position.

### Angle adjustment:

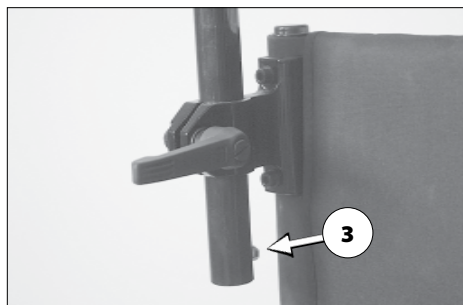
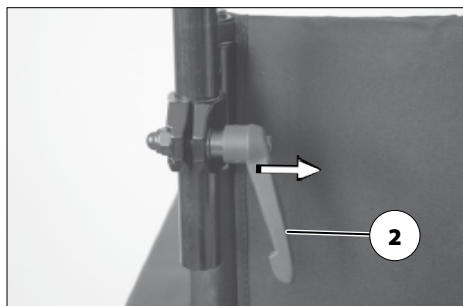
To change the position of the push handles, loosen the clamping screw through the clamping lever (2) and turn the push handles into the desired position.

### Extracting/inserting:

1. Press down the respective spring button (3) in order to extract or insert the push handles.
2. Afterwards retighten the clamping screw with the clamping levers (2).

## Special features of the clamping lever

The clamping lever (2) can be turned into an operation position that is comfortable for you.



For this pull the clamping lever (2) outward (direction of the arrow), until the teething is released.

After turning the clamping lever (2) let the teething snap back into place.

# WHEELS

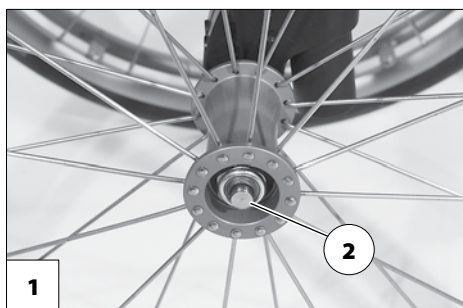
## Drive wheels

After inserting the drive wheel the locking button (2) must stick a couple of millimetres out of the wheel nut.

The drive wheels are supported on a quick release axle [1] and can be removed resp. attached without tools.

First press the locking button (2) of the quick release axle in the center of the hub.

Afterwards remove or attach the drive wheel.



- ✎ The air pressure value for the tyres of the wheelchair can be read in the *Technical data* on page 29 or details on both sides of the tyre cover.
- ✎ If the drive wheels has too much side-ward lag or the quick release axle does not engage, contact your specialist dealer immediately for repair.
- ✎ No person may be seated in the wheelchair during assembly or removal. The wheelchair should 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.

## SUPPORT CASTORS

Support castors do not provide sufficient protection against tipping over in certain situations.

Definitely refrain from the following:

- Leaning the upper body far back.
- Jerky acceleration, especially when driving uphill.

In order to raise the tilting stability never drive without the support castor swivelled to the back.

A bent tube on each side serves to increase the tilting stability.

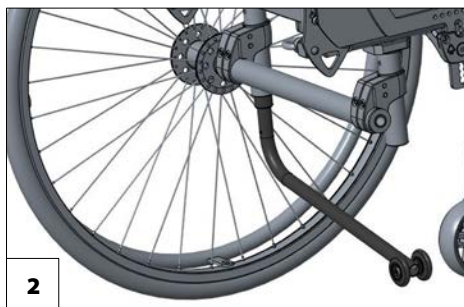
### Swivelaway support castors

The support castors [1] can be swivelled inward underneath the seat [2].

- ☞ Swivelling of the support castors can be done by an accompanying person or aid.

### Swinging the support castors

Press the support castors with your foot down and out of the lock, then swivel them inward underneath the seat [2] or toward the back [1], until the lock engages automatically.




## RETAINING STRAP

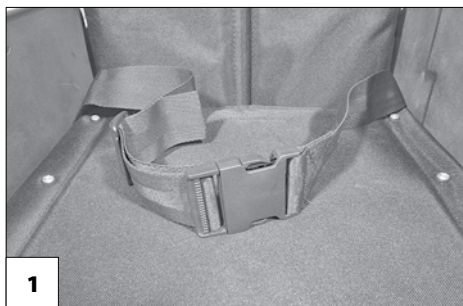
Make sure that no objects are trapped between belt and the body!

The retaining strap is not part of the retaining system for the wheelchair and/or the driver during transport in motor vehicles.


The retaining strap [1] is screwed from the back onto the respective back support tube. The retaining strap serves to stabilise the sitting position and prevents falling forward out of the wheelchair.

To fasten the retaining strap, pull both ends forward and audibly let the buckle click into place. To open the retaining strap press in both clips and pull the ends of the straps apart.

-  The retaining straps can be adjusted in length and should not be pulled too tight.



## BRACKETS

-  The wheelchair does not feature separate brackets for bags or rucksacks.

## **BASIC SAFETY INFORMATION**

This safety information is an extract of the *Sicherheits- und allgemeinen Handhabungshinweisen*, that can be found on our website: < [www.meyra.com](http://www.meyra.com) >.

Do not insert fingers into open frame tubes (for example after removing the arm supports, leg supports or support castors). – Danger of injury!

Scuttling (rolling motion of the wheelchair with help of the feet) is only permitted with creeping rolling speed on horizontal, level surfaces indoors.

When scuttling watch for the possibility of jamming the feet.

In doing so the sitting position may not be slid onto the front third of the seat.

A stable sitting position is to keep while using the wheelchair, even when not in motion and especially on hills and slopes. – Danger of accident!

In a safe sitting position the back of the user lies directly on the back support upholstery and the hip of the user is at the back end of the seat.

Transit out of the wheelchair on hills/slopes may only be carried out in emergencies and with the aid of an accompanying person and/or helper! – Danger of accident!

Increased danger of tipping over when using the angle adjustable back support.



Before starting to drive make sure that no negative seat inclination has been adjusted, respectively that a safe seating position is ensured.

## **Accompanying person**

The accompanying person must be made aware of all possible danger situation before the start of his/her supportive involvement. The parts of your wheelchair that are held onto by the accompanying person are to be checked for tight fit.

## **Transfer out of the wheelchair**

Drive with the wheelchair as closely as possible to the spot where you want to switch out of the wheelchair.

-  Herefore additionally observe chapters *Clothes guard* on page 13.
-  We recommend to conduct the transfer from the wheelchair together with an aid.

## **Reaching for objects**

Avoid an extreme forward or backward inclination of the upper body when picking up or placing heavy objects. – Danger of wheelchair tipping over, especially in the case of narrow seat widths and high seat heights (seat cushion)!

## Driving on falling, rising or transverse gradients

For safety reasons, the maximum permitted gradient is limited because the tip-over stability and the braking and steering behaviour are impaired by a reduced floor/road.

🚶 Observe chapter *Technical data* on page 29.

For your own safety, we recommend that you use the assistance of an accompanying person for driving slopes of more than 1% tilt.

🚶 This low gradient value is valid for persons that are not able to effect even the smallest centre of gravity change by changing the position of their upper body.

The accompanying person should be aware that the control of the wheelchair requires more strength on a downward slope/ hills than on a level driving surface and that there is an increased danger of slipping.

Never lean towards the downhill direction when driving on rising, falling or transverse gradients.

Avoid jerky changes of the driving condition (especially with critically adjusted driving parameters as for example an active wheel position).

Never drive faster than walking speed.

There is an increased danger of tilting while driving backwards.

While driving in curves and when turning on inclinations and slopes there is a danger of tilting.

The braking force transferred to the driving surface is much less on a downward slope than on a level driving surface and is further reduced by poor road conditions (e.g. rain, snow, grit, dirt). A dangerous slipping of the wheels due to excessive braking and an as-

sociated unwanted course deviation must be avoided by way of a careful dosed braking.

At the end of the downward slope, take care that the foot plates do not make contact with the ground and endanger you through a sudden braking effect.

Transverse surfaces to the driving direction (e.g. transversely sloped pavements) effect a turning of your wheelchair in the downhill direction. You or an accompanying person must compensate for this drift by a counter-steering.

## Crossing obstacles

After having overcome stairs, support castors that were previously removed need to be mounted again resp. support castors that were swivelled to the side, swivelled back into place.

Each crossing of obstacles involves a risk! Even flat obstacles (e.g. sills, carpet edges, small steps or similar) represent a danger of tipping.

The crossing of obstacles is a special danger situation in which a combination of the safety advice in the sections headed uphill driving, downhill driving and driving transverse to a slope must be observed in addition to other safety advice.

For your own safety all obstacles should only be driven over with an accompanying person.

The unassisted, safe, crossing of small obstacles (< 4 cm) is only possible with a sufficiently safe control of the wheelchair.

Always approach small obstacles, e.g. steps or curbs, slowly and at a right angle (90°) until the steering wheels almost touch the obstacle. Briefly stop the wheelchair and then drive over the obstacle.

Always drive over an obstacle forwards (not backwards) and simultaneously with both front/rear wheels in order to prevent a sideways tipping of the wheelchair.

Always maintain a safety distance between the wheelchair and drops, stairs and similar obstacles sufficient for reaction, braking and turning.

If possible, let one or more helpers lift you out of the wheelchair and carry you to the destination point.

The crossing of stairs is only possible with the assistance of two helpers who are familiar with the danger situation and firmly guide the wheelchair.

☞ The helpers may only hold (without lifting) the wheelchair with the push handles and the side frame.

Existing support castors are to be removed, since they might pose a danger to the aid under certain circumstances.

## Loading the wheelchair

Do not use the leg supports, arm supports or accessory parts in order to lift the wheelchair!

Before lifting, the wheelchair is to be secured against unintentional rolling motions!

☞ Therefore observe chapter *brake* on page 23.

The parts detached for loading must be carefully stowed and carefully attached again before the next journey.

The weight of the wheelchair is reduced when you remove detachable components.

The wheelchair can be also loaded with the aid of ramps or lifting platforms.

☞ Therefore observe the respective user manual and the load capacity of the ramp resp. lifting platform.

## Transport in vehicles

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

No special carrying points are allocated for carrying detachable components.

The following procedures may be necessary due to lack of space for the transport in vehicles:

- Remove clothing guards.
- Remove or fold over the back support.
- Detach the drive wheels.

## Transport safety of the empty wheelchair

Changes on the wheelchair and especially the anchor points may not be made.

All regulations and directions of the respective transport company are to be observed.

☞ Ask for these before the transport.

Only attach the fastening straps to designated parts of the car and wheelchair.

☞ View chapter *Meaning of the labels on the wheelchair* on page 33.

## Transport of people inside a motor vehicle

Whether your wheelchair is approved as a seat in a car, can be determined in chapter *Meaning of the labels on the wheelchair* on page 33.

☞ Observe the guideline < *Safety with Meyra-wheelchairs, also during transport in motor vehicles* >! – This document and further information are available in the < *Information center* > on our website < [www.meyra.com](http://www.meyra.com) >.

## Transport in public methods of transportation

Your wheelchair is not designed for user transport in public transportation vehicles. Limitations may occur. We recommend use of one of the firmly built in seats of the public vehicle.

Should it nevertheless become necessary to carry out the transport while sitting in the wheelchair, the following needs to be observed:

- Use the space designated by the public transportation services for parking.
- Observe the regulations of the transport company before parking the wheelchair.
- Park your wheelchair opposite to the driving direction in the reserved space.
- The wheelchair is to be placed so that the back support it will be supported by the border of the parking space.
- One side of the wheelchair must also lie against the border of the parking space, so that the wheelchair cannot slide away in case of an accident or sudden braking manoeuvre.
- Additionally activate the parking brakes.

## Driving on public highways

In Germany you are subject to the German laws for traffic regulation (Strassenverkehrsordnung (StVO)) as a pedestrian.

Your wheelchair can optionally be fit with lighting equipment. The lighting equipment consists of:

- Reflectors on the back support
- Reflectors on the drive wheels.

With limited sight and especially in the dark we recommend to mount and switch on active lighting equipment, e. g. from the bicycle sector, in order to see and be seen better.

- ☞ When participating in public traffic the user is responsible for the functional- and operationally safe condition of the wheelchair.
- ☞ When driving in the dark avoid using the road or bicycle lanes.
- ☞ Observe that the lighting equipment is not covered by clothes or any other objects attached to the wheelchair.

## Cleaning

The plastic panelling is attacked through non-ionic tensides as well as solvents and especially alcohol.

The cushions and covers are normally fit with care instructions (instruction for care).

- ☞ For this observe chapter *Meaning of the symbols on the washing instruction* on page 32.

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.
- ☞ Do not soak! Do not machine wash!

Follow-up with clean water and allow to dry.

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

- ☞ Check the chassis for corrosion damages as well as other damages.
- ☞ Only clean the plastic parts with warm water and neutral detergent or soft soap.

Further information to cleaning can be found in the < Infozentrum > on our website: < [www.meyra.com](http://www.meyra.com) >.



## Finish

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

- ☞ Should the coating be damaged with scratches or similar, these areas can be touched up with our paint pen available at the specialist dealer.

Slight lubrication of moving parts will ensure for their long functioning.

## 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.

- ☞ Before disinfection the upholstery and handles are to be cleaned.
- ☞ A spray- or wiping disinfection is permitted with tested and accredited disinfectants.

A list of the disinfectants and disinfection means tested and approved by the Robert Koch Institute can be found under:

< <http://www.rki.de> >.

- ☞ During the use of disinfectants it can happen that surfaces might be affected in such a fashion that the long term functionality of parts can be limited.
- ☞ In doing so the manufacturers instructions are to be observed.

## Repairs

Repairs are generally to be carried out by a specialist dealer.

## Repairs

Trustingly contact your specialist dealer for maintenance work. He has been introduced to the maintenance.

## Customer Service

In case you have any questions or need help please contact your specialist dealer who can assume counselling, customer service 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!

- ☞ Spare parts from other manufacturers can cause malfunctions.

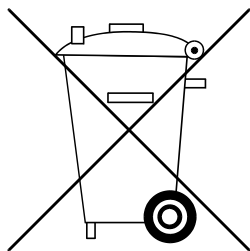
The spare parts list with the respective part numbers and drawings is available at the specialist dealer.

In order to ensure the correct delivery of a spare part, always quote the corresponding serial number (SN) of the wheelchair! 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 disposal must comply with the respective national law.

Please enquire about local disposal arrangements at your municipal authority.

## **MAINTENANCE**


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

### **Maintenance**

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

- ✎ The maintenance plan does not give information about the actual extent of work determined on the wheelchair.

## Maintenance schedule

WHEN	WHAT	REMARK
<b>Before starting out</b>	<b>Test brakes for fault-less operation</b>  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 an authorised specialist workshop.	Carry out test yourself or with a helper.
<b>Before starting out</b>	<b>Check pressure brake for wear</b>  Move brake lever to the side	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. – Danger of accident!
<b>Before starting out</b> (when applicable)	<b>Check air pressure of the tyres</b>  Tyre filling pressure:  View <i>Tyre pressure of pneumatic tyres</i> on page 29.	Carry out test yourself or with a helper. Use a tyre gauge.
<b>Before starting out</b>	<b>Check tyre profile</b>	Carry out visual check yourself. If the tyre profile is worn down or if the tyre is damaged, consult a specialist workshop for repairs.

WHEN	WHAT	REMARK
<b>Before starting out</b>	<b>Check the back tubes and frame tubes for damages</b>	Carry out the test yourself or by a helper. If deformations or cracks occur in the welding seams, contact a specialist workshop immediately for repairs. – Danger of accident!
Especially before driving in the dark (when applicable)	<b>Check the lighting</b> Check the light- and indicator signal equipment as well as reflectors for immaculate performance.	Carry out test yourself or with a helper.
<b>Every 8 weeks</b> (depending on frequency of use)	<b>Lubricate the following components with a few drops of oil</b> <ul style="list-style-type: none"> <li>– Moving parts of the locking mechanism.</li> <li>– Brake lever bearings.</li> </ul>	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).
<b>Every 8 weeks</b> (depending on frequency of use)	<b>Check all screw connections for secure fit</b>	Carry out test yourself or with a helper.
<b>Every 6 months</b> (depending on frequency of use)	<b>Check</b> <ul style="list-style-type: none"> <li>– Cleanliness.</li> <li>– General condition.</li> </ul>	See Care. See Repairs.
<b>Manufacturer recommendation:</b> Every 12 months (depending on frequency of use)	Safety inspection <ul style="list-style-type: none"> <li>– Vehicle</li> </ul>	To be carried out by the specialist dealer.

## TECHNICAL DATA

All data given in the < *Technical data* > refers to the standard version.

The overall length depends on the position and size of the drive wheels.

If not noted otherwise the dimensions are determined with drive wheels of  $\varnothing$  610 mm (24").

The widths were determined with a hand-rim distance of 15 mm.

Dimensional tolerance  $\pm 15$  mm,  $\pm 2^\circ$ .

### Short form of wheelchair dimensions:

SH = Seat height

SW = Seat width

SD = Seat depth

BH = Back support height

### Calculation of the max. user weight:

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 user weight is reduced by 5 kg.

## Tyre pressure of pneumatic tyres

Maximum tyre pressure is printed on the tyres on each side.

### Full tyre pressure – steering wheel

Standard:

2.5 - 3.5 bar = 36 - 50 psi

### Full tyre pressure – drive wheel

Standard:

3.0 - 4.0 bar = 44 - 58 psi

Ultra-light running tyres:

6 bar = 87 psi

High pressure:

8 bar = 116 psi

## Values acc. to ISO 7176-15 for model 1.155

	min	max
Overall length with leg support	750 mm	980 mm
Overall width	465 mm	690 mm
Overall dimensions	–	140 kg
User weight (incl. additional load)	–	130 kg
Weight of the heaviest part	6.5 kg	9.5 kg
Actual seat depth	380 mm	500 mm
Actual seat width	300 mm	500 mm
Folding length	–	–
Folding width	–	–
Folding height (back support lowered onto seat)	600 mm	660 mm
Seat surface height at front edge (without cushion)	450 mm	530 mm
Seat angle	0°	15°
Back support angle	-5°	15°
Back support belt height	250 mm	450 mm
Foot support to seat (lower shank length)	360 mm	480 mm
Static stability downhill	–	6°
Static stability uphill	–	6°
Static stability lateral	–	6°
Dynamic stability uphill	–	6°
Angle leg support - seat surface	92°	100°
Arm support height from seat surface	–	–
Back support to front edge of arm support	–	–
Handrim diameter	540 mm	590 mm
Axle horizontal position	40 mm	115 mm
Obstacle height	0 mm	30 mm
Minimal turning radius (normative recommendation according to ISO 1000 mm)	950 mm	1.200 mm
Weight of the dummy (ISO 7176-8)	–	130 kg

## Further technical data for model 1.155

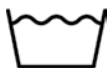
	min	max
Length without leg support	–	–
Overall height	600 mm	970 mm
Seat cushion thickness	30 mm	60 mm
Length without drive wheels (Support castors are removed or swivelled under- neath the seat)	640 mm	760 mm
Additional load:	– kg	10 kg
Transport weight (without clothes guard, seat cush- ion, drive wheels)	6.5 kg	9.5 kg
Weight clothes guard	<u>580 g/per side</u>	
Weight drive wheel	<u>approx. 2 kg/ wheel</u>	
<u>Steering wheel:</u>		
ø 100 mm (4")	Solid rubber	
ø 125 mm (5")	Solid rubber	
ø 142 mm (5½")	Solid rubber	
<u>Height of push-handles</u>		
Code 502 (steplessly adjustable)	–	150 mm
<u>Drive wheel:</u>		
ø 610 mm (24")	Pneumatic tyres	
ø 635 mm (25")	Pneumatic tyres	
ø 660 mm (26")	Pneumatic tyres	
<u>Handrims:</u>		
ø with 24"	540 mm	
ø with 25"	565 mm	
ø with 26"	590 mm	
<u>Climatic data</u>		
Ambient temperature	-25 °C to +50 °C	
Storage temperature	-40 °C to +65 °C	

## Meaning of the symbols on the washing instruction

(the symbols correspond to European standard)



Wash as delicates with the indicated maximum temperature in °C



Wash as regular laundry with the indicated maximum temperature in °C



Do not bleach



Not suited for the dryer



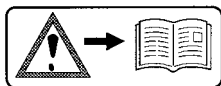
Do not iron



Do not dry-clean

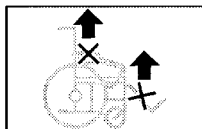


## Meaning of the labels on the wheelchair



### Attention!

Read the operating manuals and other provided documentation.



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

Removable parts are not suitable for carrying.

### Achtung

Bremse nachstellen.

Ident.-Nr. 8390658

### Attention

Readjust the brakes.

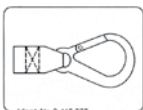
### Achtung

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

Ident.-Nr. 205674400

### Attention

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



Ident.-Nr. 8 460 338

Attachment possibility of the transport securing system.



The product is **not** approved as a seat within a motor vehicle.



Indication for danger of jamming. – Do not reach in here

## Meaning of the symbols on the type plate



Manufacturer



Order number



Serial number



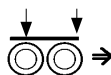
Production date (Year – Calendar week)



Permitted user weight



max. permissible total weight



Permitted axle weights



Max. permissible rising gradient



Max. permissible falling gradient

max. ... km/h Permitted maximum speed



The product is approved as a seat within a motor vehicle



The product is **not** approved as a seat within a motor vehicle.

# INSPECTION CERTIFICATE

## Vehicle data:

Model:

Delivery note no.:

Serial-no.(SN):

## Recommended safety inspection 1st year (at least every 12 months)

Stamp of specialist dealer:

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

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

\_\_\_\_\_

Next safety inspection in 12 months

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

## Recommended safety inspection 2nd year (at least every 12 months)

Stamp of specialist dealer:

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

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

\_\_\_\_\_

Next safety inspection in 12 months

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

## Recommended safety inspection 3rd year (at least every 12 months)

Stamp of specialist dealer:

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

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

\_\_\_\_\_

Next safety inspection in 12 months

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

## Recommended safety inspection 4th year (at least every 12 months)

Stamp of specialist dealer:

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

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

\_\_\_\_\_

Next safety inspection in 12 months

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

## Recommended safety inspection 5th year (at least every 12 months)

Stamp of specialist dealer:

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

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

\_\_\_\_\_

Next safety inspection in 12 months

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

## WARRANTY / GUARANTEE

We accept legal liability for this product within the scope of or general terms and conditions and warranty and in certain cases other verbal resp. agreed upon guarantees. 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).

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

Precondition 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.

Warranty / 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:

Inspection certificate for transfer

Vehicle data:

Serial-no.(SN):

Model:

Delivery note no.:

Stamp of specialist dealer:

Signature:

Place, date:

Next safety inspection in 12 months

Date:





Your specialist dealer

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