

# ***Electric wheelchair***

*Model 1.623*

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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.
-  Reference to a jamming area 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.

The present operating manual should help you as well as the controlling person (accompanying person), to get accustomed to the handling of your electric 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 individual electric wheelchair. A list of the available options and accessories can be viewed in the order form of your electric wheelchair.

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.

Alternatively users with visual impairments can have the documentation read out by a helper.

Inform yourself regularly about product safety and possible recalls of our products in the < *Information center* > on our website: < [www.meyra.com](http://www.meyra.com) >.

We have developed an electric wheelchair that complies with the technical and governmental regulations of medical devices. For information about a severe accident that can still not be ruled out completely, please use our E-mail address < [info@meyra.de](mailto:info@meyra.de) > and inform the responsible governmental agency of your country.

## LIST OF MODELS

This operating manual applies to the following models:

Model 1.623

## INDICATIONS / CONTRAINDICATIONS

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

In order to prevent contact allergies, we recommend to use the electric wheelchair only when wearing clothes.

The functional diversity of the electric wheelchair permits application in cases where extreme spasms and contractions of the skeletal muscles lead to contortions, uncontrolled movements, slipping away and functional losses as well as substantially to completely pronounced impairment of the mobility/walking in cases of structural and/

or functional damages to the lower extremities, such as amputations, results of injury, musculoskeletal/neuromuskuloskeletally caused motion disabilities e. g. through:

- paralysis,
- loss of limbs (leg amputation),
- defective/deformed limbs,
- joint contractures/-damages,
- other diseases.
- spasms.

Also to be observed for individual provision are the physical and psychological state, age of the user as well as the personal living condition and private environment.

This is meant for the user of the electric wheelchair as well as the accompanying person controlling the electric wheelchair.

Every provision, case by case should be checked, tested and aligned to the individual ability limitations caused by the defined disability through an educated person (medical device consultant, rehabilitation consultant u.o.). This also includes that people that show a counter indications to the named problems in some cases need to give proof of the cognitive, mental and moral ability to operate the electric wheelchair.

The electric wheelchair may not be used in cases of:

- Influence of impairing medications to the accompanying person (ask your doctor or pharmacist).
- Extreme balance and/or perceptual disorders of the accompanying person (ask your doctor or pharmacist).
- Inability to sit.
- Accompanying persons that are physically or psychologically not able to steer an electric wheelchair.

☞ To these and other possible risk concerning your electric wheelchair ask your doctor, therapist or specialist dealer.

## **ACCEPTANCE**

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

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

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

## **INTENDED PURPOSE**

The electric wheelchair serves to improve independent mobility in- and outdoors.

## **TARGET GROUP**

The target group of the electric wheelchair includes those groups of people that do not have sufficient independent mobility at their disposal, to move around independently in- and outdoors.



## USE

Never use the electric wheelchair without the leg supports and arm support units mounted!



The electric wheelchair serves solely for transporting **one** sitting person. – Other pulling or transporting uses do not comply with its intended purpose.

The electric 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).
- Never expose the electric 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.

The electric wheelchair offers manifold adjustment possibilities to individual vital statistics.

National regulations might prevent the use on busses, trains or in aircraft.

-  Inform yourself at the transportation companies concerning limitations.
-  Before going on a flight clarify the specific transport conditions with your flight agency and also the legal regulations concerning transport in a plane in your country of residence as well as at your destination.

Only apply the electric wheelchair within the scope of the specifications and limitation described in chapter *Technical data* on page 53.

## ADJUSTMENT

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

The electric wheelchair offers manifold adjustment possibilities to individual vital statistics. Before first use an adaptation of the electric wheelchair and a practical instruction in the functionalities of your electric wheelchair should be carried out by your specialist dealer. The adaptation will take into account the driving experience, the physical limits of the user and the main place of use of the electric wheelchair. Before first use, check the functionality of your electric wheelchair.

Should your specialist dealer carry out a revision/reconditioning or make fundamental changes to your electric wheelchair, without the use of original spare parts, this under certain conditions may result in a remarketing of your electric wheelchair. This will further entail that your specialist dealer might need to conduct new conformity assessments and tests.

-  We recommend a regular inspection of the electric wheelchair adjustment in order to ensure a long-term optimal provision even with changing illness/handicap patterns of the user. Especially for juveniles an adjustment every 6 months is recommendable.
-  We recommend regular medical examinations for independent determination of the user ability.

## **COMBINATION WITH MANUFACTURER FOREIGN PRODUCTS**

Any combination of your electric wheelchair with components not supplied by us generally results in an amendment to your electric wheelchair. Please inquire with us if there is a valid combination clearance/release.

## **REINSTALLMENT**

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

The service manual, intended for the specialist dealer provides information to the reinstallation and reinstallation frequency of your electric wheelchair.

## **LIFE SPAN**

We expect an average life span of about 5 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.

## **BASE POSITION**

Only drive on slopes, inclines and obstacles in the basic position of the seat height adjustment and the seat inclination. – Danger of overturning!

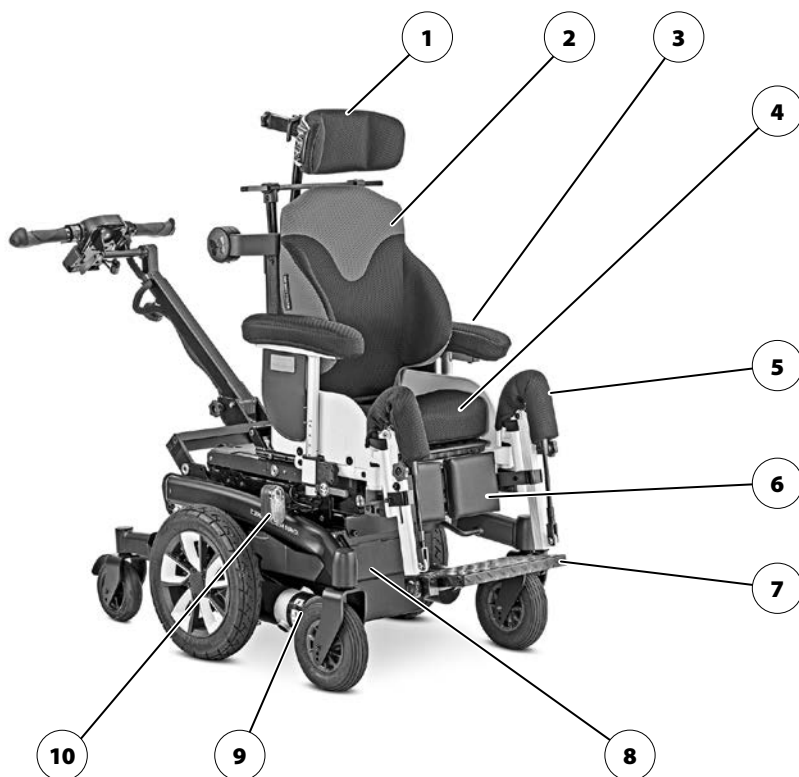
Basic position is to be understood as:

- Seat height adjustment in the lowest position.
- Seat inclination in horizontal position (but max 10°).

# OVERVIEW

## Model 1.623

The overview shows the most important components and operating devices of the electric wheelchair.



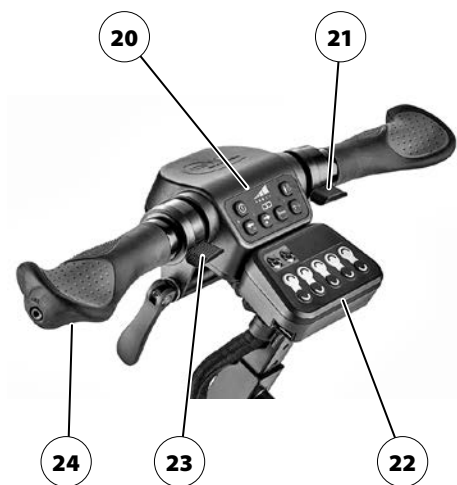
Pos. Description

- |                  |                                      |
|------------------|--------------------------------------|
| (1) Head support | (6) Calf pads                        |
| (2) Back support | (7) Footboard                        |
| (3) Arm support  | (8) Type plate                       |
| (4) Seat pad     | (9) Selection lever drive-/push mode |
| (5) Leg support  | (10) Front lighting                  |



Pos. Description

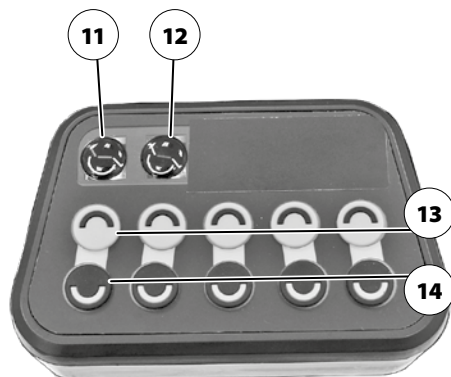
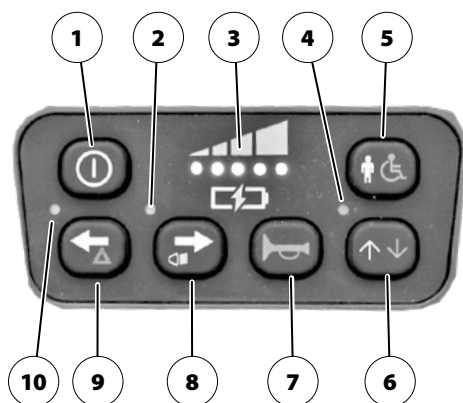
- (11) Steering wheel
- (12) Driving wheel
- (13) Rear lighting
- (14) Battery charging socket
- (15) Support castor
- (16) Angle adjustment of the push bar
- (17) Push bar
- (18) Height adjustment of the push bar
- (19) Steering unit



## Driving module

Pos. Description

- (1) Key On/Off
  - Switches the electric wheelchair on/off.
- (2) LED-display right turn signal / lighting / warning signal
  - Prolonged pressing of the key (8) switches the lighting on/off.
- (3) Control display of the battery charging condition / the speed setting
- (4) LED-display direction reverse
  - Pressing of the key (4) switches the direction reverse on/off.
- (5) Key speed setting
  - First short key activation (< 1 s) shows the speed setting (3).
  - Each further short pressing of the key switches the setting to the next higher setting.
- (6) Key direction reverse
- (7) Signal tone (horn)
  - When pressing this key a horn signal sounds.
- (8) Right indicator
- (9) Left indicator
- (10) LED-display left turn signal / lighting / warning signal
  - Prolonged pressing of the key (9) switches the warning signal on/off.



- Adjustment drives into the basic position on activation of the key.
- (14) Key adjustment positive
    - Adjustment drives from the basic position on activation of the key.

## Adjustment module

Pos. Description

- (11) Adjustment seat inclination
- (12) Adjustment seat height
- (13) Key adjustment negative

# HANDLING THE ELECTRIC WHEELCHAIR

## Securing the electric wheelchair

The electric wheelchair is to be secured as follows to prevent it from rolling off unintentionally:

1. Switch the selection lever for drive-/push mode up to drive mode on both sides.
2. Switch off the operating module.

## Functional checks

The functions and safety of the electric wheelchair must be checked before the start of each journey.

- 🔊 Therefore observe chapter *Pre-operation checks* on page 24.

## Driving

Speed and driving direction is determined by the movement of the driving lever and handle bar as well as the selected speed setting of your electric wheelchair.

# BRAKES

Brake the vehicle down carefully and in time. This is especially the case when driving in front of people and while driving downhill!

## Service brake

The motors work electrically as operating brake and carefully brake the electric wheelchair down without jerks to stillstand.

## Braking down the wheelchair

For allotted braking of the electric wheelchair slowly guide the driving lever back to the centre position (zero-setting).

## Emergency braking

- 🔊 The electric wheelchair stops in shortest distance after releasing the driving lever.

## Parking brake

The parking brakes are only effective when the selection lever drive-/push mode is set to drive mode on both drives.

- 🔊 The parking brake disengages automatically when you start to drive.

The parking brakes are manually disengaged by switching the selection lever drive-/push mode on both drives to push mode.

## Locking the brakes

It should not be possible to push the electric wheelchair forward when the brakes are engaged.

To engage the brakes swivel the selection lever drive-/push mode on both sides as far as possible into drive mode [1].

- ☞ Activation of the selection levers are intended for an accompanying person.



## Releasing the brakes

Only transfer into or out of the electric wheelchair when the electric wheelchair is switched off and the selection lever drive-/push mode on both sides is in drive mode!

Inadvertently knocking the driving lever will set the electric wheelchair in motion without control! – Danger of accidents!

To loosen the brakes swivel the selection lever drive-/push mode on both sides down as far as possible into push mode [2].

- ☞ Activation of the selection levers are intended for an accompanying person.



## Drive-/push mode

Only switch the electric wheelchair to push mode when it is standing still for positioning or in case of emergencies, but not on slopes/hills.

After push mode do not forget to switch the drive back to drive mode. Danger of uncontrolled electric wheelchair movement if you do not do this.

- ☞ For shunting the electric wheelchair, grab the push bar.

### Selecting the push mode

1. Switch off the operating module because the pushing will otherwise be made difficult by the electric system.
  - ☞ Therefore observe chapter *Driving module* on page 17.
2. Disengage the brakes [1].
  - ☞ Therefore observe chapter *Releasing the brakes* on page 15.
  - ☞ The electric wheelchair can now be pushed.

### Selecting the motor mode

1. Activate the brakes [2].
  - ☞ Therefore observe chapter *Releasing the brakes* on page 15.
2. Switch the driving module on.
  - ☞ Therefore observe chapter *Switching on the driving module* on page 17.

The electric wheelchair is now ready for use again.





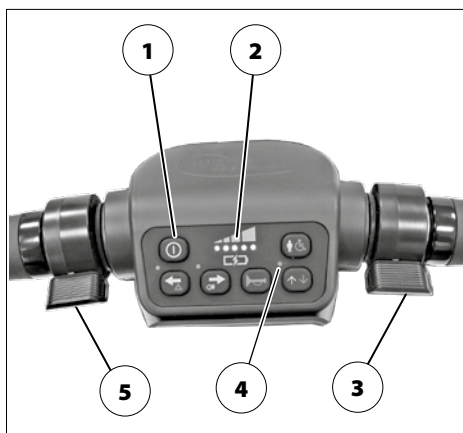
# DRIVING MODULE

## Switching on the driving module

Do not move the driving lever (3)+(5) or handlebar during the system test.

Press the ON/OFF key (1) to switch on the driving module. The electronic system now performs a system test.

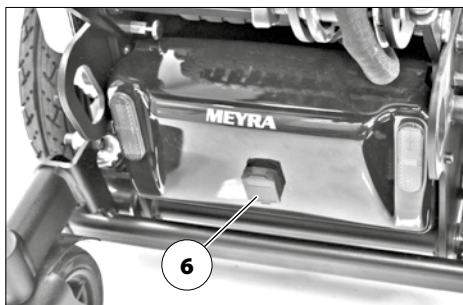
- 🔊 The electronic system is ready when the battery gauge (2) is permanently lit.
- 🔊 After about 20 seconds stillstand, the system switches into stand-by-mode and the LED for reversing the driving direction (4) blinks.
  - To exit the stand-by-mode, press and release one of the driving levers (3) or (5).



## Battery charging socket

Do not insert other objects into the battery charging socket. – Danger of short circuit!

To charge the batteries first switch off the driving module. Then insert the plug of the battery charger into the charging socket (6).




# Battery voltage



The battery indicator [1] displays the battery voltage after the system test when the driving module has been switched on.  
Less LED segments of the battery gauge are lit as the battery voltage reduces.

## Battery gauge

The battery gauge [1] displays the existing battery voltage as follows:

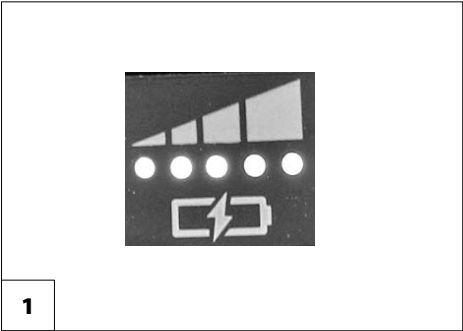
The colours mean:

<b>Green</b>	Batteries charged  The charging status corresponds to the number of green lit LEDs.
<b>Yellow</b>	Recharging recommended.
<b>Red</b>	Recharge batteries immediately.

-  An accurate battery indication is only given during travel on a level surface.
  -  Uphill/downhill driving can causes an inaccurate indication.

## Evaluation

The exactness of the battery gauge depends for example on the temperature, age and strain on the batteries is therefore subject to certain restrictions.  
The kilometric performance (range) of the electric wheelchair resp. the batteries should be tested at least once.



## Preselectable maximum speed

Danger of accident due to unsuitable setting of the preselected speed!

After switching on the driving module, the maximum speed setting will be the same as that selected before switching off.

### Preselect the maximum speed

By pressing the key [1] you switch between the preselectable speed settings, **1** for slow to **5** for fast.

The number of lit LEDs in the control gauge [2] shows the selected speed setting.

Select a slow maximum speed (step 1) for driving situations in which you do not feel confident/safe (e.g. driving in confined spaces, or similar).

- 🔊 The final speed is to be preselected in dependence on the personal impression of the respective driving situation!
- 🔊 When driving on ramps, hills or slopes the speed is to be adjusted to the inclination appropriately. Never exceed the permitted max speed. – Danger of accidents!

### Diving speed stages

On the setting fast, the max. final speed of the electric wheelchair is 5.5 km/h.

In speed limitation (slow) the maximum speed of the electric wheelchair is 1.5 km/h.



1



2

## Drive and steering movement

Only move the driving lever (2) or (3) when the battery gauge [1] shows continuous light.

With the driving lever (2) the electric wheelchair can be propelled forward and slowed down to a stop.

With the driving lever (3) the electric wheelchair can be propelled backwards and slowed down to a stop.

The further you move the driving lever away from the centre position, the faster the electric wheelchair will travel (up to the preselected maximum speed).

The horizontal movements of the handlebar [4] effect curves. The wheelchair will turn almost on the spot if the handlebar is only deflected sideways.

- ⓘ The speed is reduced automatically during reverse or curve driving.

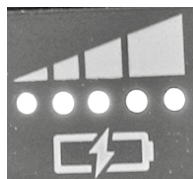
## Braking the electric wheelchair

The electric wheelchair stops when you release the depressed driving lever (2) or (3). For allotted braking, slowly let the driving lever return to zero-position.

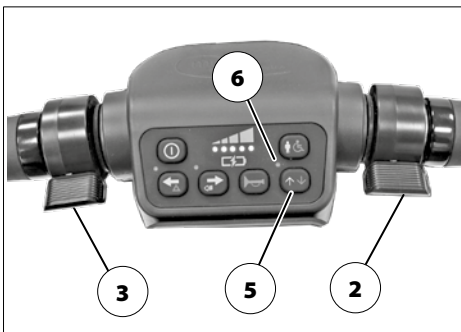
## One-hand operation

The driving direction is reversed by pressing the key (5).

- ⓘ With active reversed driving direction, the LED-display (6) lights up in orange.
- Right driving lever for backwards, left driving lever for forward.
- ⓘ In normal operation mode the LED-display (6) lights up in green. Right driving lever for forward, left driving lever for backwards.








1








4





## Keys and symbols - driving module

	<b>ON / OFF</b>	Switches the driving module on or off when pressing the key.
		<ul style="list-style-type: none"> <li>🔊 The electronic will conduct a system test when switched on.</li> <li>🔊 During this period do not move the driving lever or handlebar.</li> </ul>
	<b>Left indicator</b>	Switches the left indicator lights on or off when pressing the key. 🔊 The LED blinks green.
	<b>Hazard warning signal</b>	After long pressing of the key (about 2 sec.), switches the warning signal on resp. off. 🔊 The LED turn signals left and right blink in red.
	<b>Right indicator</b>	Switches the right indicator lights on or off when pressing the key. 🔊 The LED blinks green.
	<b>Lighting</b>	After long pressing of the key (about 2 sec.), switches the lighting on resp. off. 🔊 The LED turn signals left and right light up in orange.
	<b>Horn</b>	A signal tone sounds when pressing the key.
	<b>Reverse driving direction for one-hand operation</b>	<p>When pressing the key, the driving direction of the driving levers is switched.</p> <p><b>The LED is lit in green:</b> Right driving lever forward – left driving lever backwards.</p> <p><b>The LED is lit in orange:</b> Right driving lever backward – left driving lever forwards.</p> <p><b>The LED blinks:</b> Stand-by-mode active.</p>

## Keys and symbols - driving module

	<b>Speed pre-selection &lt; fast / slow &gt;.</b>	On key activation, switches the preselected speed from slow (step 1) to fast (step 5).  For safety reasons we recommend to only press the < speed-key > when the electric wheelchair is standing still.
		<b>Step 1:</b> One LED is lit – slow step (1.5 km/h) <b>Step 5:</b> Five LED's are lit – fastest step (5.5 km/h)
	<b>Display of the battery charging condition</b>	With decreasing battery charging condition less segments light up in the battery gauge.
	 Blinking symbol indicates an error. Therefore observe chapter <i>Fault correction</i> on page 46.	

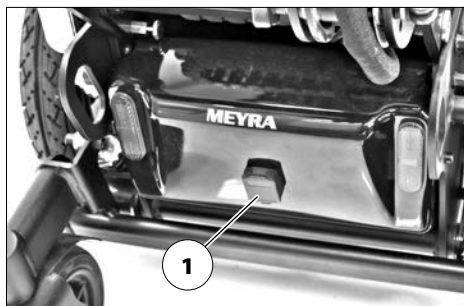
## Keys and symbols - adjustment module

	<b>Seat inclination (camber)</b>	Adjustment function seat inclination (camber)
	<b>Seat height</b>	Adjustment function seat height
	<b>Adjustment function negative</b>	Adjustment drives into the basic position on activation of the key.
	<b>Adjustment function positive</b>	Drives the adjustment on activation of the key.

## SELECTING THE OPERATION

In order to obtain operational readiness of the electric wheelchair the following directions are to be carried out in the indicated order.

- ☞ Before first use the drive batteries should be charged through the charging socket of the rear revetment (1).



1. Selecting the motor mode.

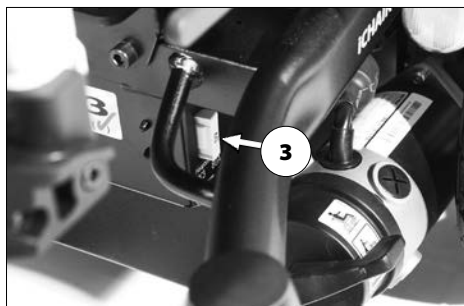
Switch the drive motors to the drive mode [2]. – For this engage the brakes.

- ☞ Observe chapter *Locking the brakes* on page 15.



2. Check the correct fit of the battery/ mains fuse.

- ☞ The blade fuse for the battery/main current has to sit tightly in the fuse holder (3).



### 3. Check the position of the handlebar.

The position of the handlebar is to be adjusted so that the electric wheelchair can be steered safely.

- ✎ The angle of the handlebar can be adjusted after loosening the spanning lever (3).
  - ✎ The angle of the steering unit (6) can be adjusted after loosening the spanning lever (5).
  - ✎ After removing the handwheel (4) the steering rod can be slid into the desired height.
4. After the adjustment press the spanning levers on tight and again and screw the handwheel back in tightly.
- ✎ Therefore observe chapter *Positioning the steering unit* on page 26.
5. Switch the driving module on.
- ✎ Press the On/Off-key (7) on the control panel of the driving module.
  - ✎ Therefore observe chapter *Switching on the driving module* on page 17

## PRE-OPERATION CHECKS

Before starting to drive, the following should be checked:

- ✎ the battery charging condition,
  - ✎ the setting of the preselected final speed.
- Therefore observe chapter *Driving module* on page 17.





## Battery charging procedure

Do not insert any objects other than the battery charger plug into the battery charging socket. – Danger of short circuit!

Only charge the batteries in well aired, dry rooms.

Protect the charger from heat, dampness, drop and spray water and jamming since it contains voltage. – Short circuit- and mortal danger!

Ensure a good ventilation of the charger during the charging (do not cover) in order to dissipate the heat generated by the charger. – Danger of fire!

Place the battery on a firm surface for charging.

Do not put the charger on the seat of the electric vehicle for charging.

Do not smoke and avoid open flame or sparking when handling cables and electric devices. The charging gases that can be produced by the charging are always explosive.

Avoid spark build up through electrical static (for example caused by synthetic floor covers).

☞ For the battery charging procedure also observe the operating manual of the battery charger.

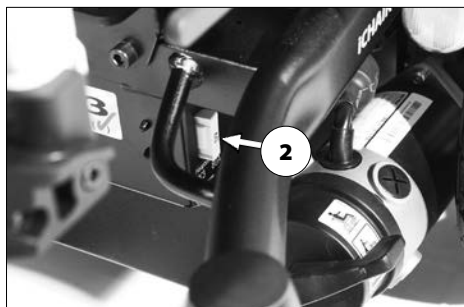
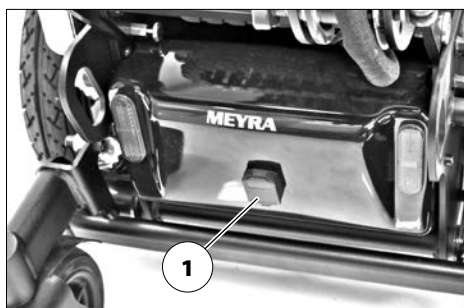
1. Lock the electric wheelchair.

☞ Therefore observe chapter *Securing the electric wheelchair* on page 14.

2. Insert the charger plug into the battery charging socket (1) of the charger.

3. Switch the battery charger on, resp. insert the main plug of the battery charger into the corresponding power socket.

☞ The charging procedure is initiated.



☞ The charging procedure only runs with an intact mains/battery fuse (2)!

4. After a completed charging procedure disconnect the battery charger from the socket and remove the battery charging plug from the battery charging socket.

## Positioning the steering unit

Switch the driving module off before adjustments.


The steering unit should be positioned in such a way that you can comfortably and safely steer the electric wheelchair.

### Function description

A detailed description of the pressure keys and symbols can be found in chapter *Keys and symbols - driving module* on page 21.


The position of the steering unit can be adjusted to suit the individual size of the accompanying person. The steering rod can be swivelled to the back support for transport or storage [1].

### Adjusting the height of the steering unit

1. To adjust the steering height, screw the handwheel (4) far out. Afterwards slide the steering rod to the desired height.  
 Carefully route the cable when doing this.
2. Afterwards insert and tighten the handwheel (4) in the next possible position.

### Adjusting the angle of the steering rod

The angle of the handlebar can be adjusted after loosening the spanning lever (3).

-  Press the spanning lever (3) back on tightly after the adjustment.



## Adjusting the angle of the steering unit

For angle adjustment of the steering unit (6) loosen the clamping lever (5). Afterwards swivel the steering unit into the desired position and press the clamping lever (5) back on tightly.

## Setting the step length of the accompanying person

With increasing step length, the required turning radius also increases.

Loosen the clamping lever (3) to adjustment of the step length. Afterwards swivel the steering unit into the desired position and press the clamping lever (3) back on tightly.

- After adjustment of the step length, check the height and angle of the steering unit. If required readjust.
- Therefore observe chapter *Positioning the steering unit* on page 26.




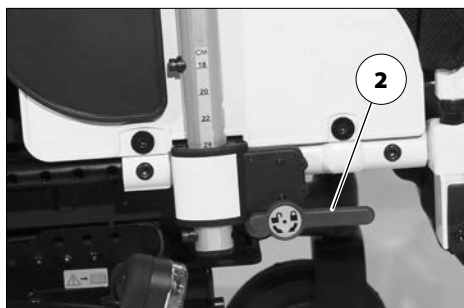
# ARM SUPPORTS

Do not use the arm supports [1] to lift or carry the electric wheelchair.

The standard arm supports can be adjusted in height to suit the needs of the user.

## Adjusting the height of the arm supports

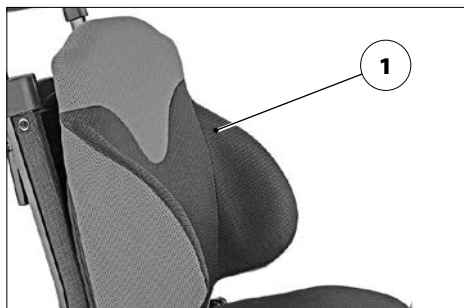
1. To adjust the height of the arm support, pull the locking lever (2) up with one hand and with the other hand slide the arm support into the desired arm support pad position.
2. Afterwards slide the padded arm support again until it audibly locks into place.
3. Press the clamping lever (2) downward.  
 Check the locking device by trying to lift or lower the padded arm support.



## BACK SUPPORT

Only adjust the back support when the electric wheelchair is standing on a level surface. A danger of tipping over exists on gradients!

The back support (1) is returned to the initial position by the pneumatic spring after each unintended adjustment.



### Locking the back support

The inclination of the back support (1) is lockable [2].

- ⚠ Observe the jamming area between the upholstered handgrip and release lever (3)!

For adjustment of the back support, first pull the release lever (3), then activate the tilting lever (4) and slowly let the release lever swivel back into place. In doing so let the tilting lever engage into the lowest locking position [5].

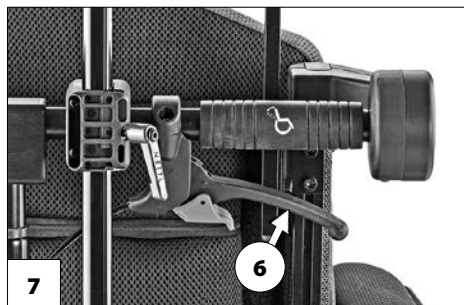
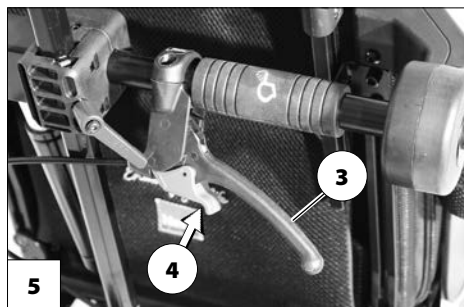
- ⚠ The back support is locked into place.



### Releasing the back support

To release the back support (1) tighten the release lever (6) handtight, until the tilting lever visibly and audibly locks into place [7].

- ⚠ Afterwards let go of the release lever (6) and check the function of the released back support.



## Back support upholstery

The back support upholstery (1) is attached to the adjustable back with a velcro fastener.

### Removing the back support upholstery

To remove the back support upholstery, first open the velcro fasteners on the back of the back support and then fold the back flap over to the front [2].

Afterwards pull the back support upholstery off toward the front [3].

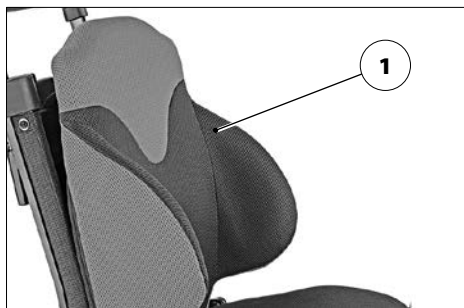
### Adjusting the adjustable back

Contact the specialist dealer for adjustment of the adjustable back!

Adjustment of the adjustable back is achieved with help of the spanning belts [4].

### Placing the back support upholstery

To place the back support upholstery, first press it onto the center of the adjustable back [2], then fold the back flap over toward the rear and press it onto the adjustable back.



# HEAD SUPPORT

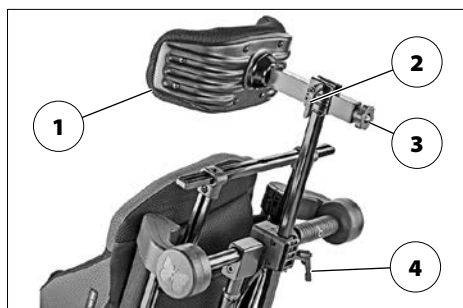
Always adjust the upper edge of the head support close to the back of the head and at about eye level.

Do not position the head support at neck height.

Pull the head support out of the bracket maximally up to the marking.

The head support serves to support the head posture.

When adjusting the head support watch for possible danger of jamming in the area of the adjustment devices.



## Adjusting the head support during handicapped transport inside a motor vehicle

The dynamic back support adjustment is to be locked into place for person transport within a motor vehicle.

A correctly adjusted head support reduces the risk of whiplash injury during a rear-end collision.

Check and ensure a firm seat of the head support bracket.

For a correctly adjusted head support, the following settings need to be observed:

- The head support must be adjusted in such a fashion that the space between the back of the head and support surface is only enough to fit maximum one flat hand.
- The upper edge of the head support should be adjusted slightly above or at least level with the top of the head.

## Adjustment of the head support

After loosening the clamping levers (2)+(4) the head support can be adjusted to the desired position.

Afterwards retighten the clamping levers (2)+(4).

## Adjusting the head support to the head posture

After loosening the clamping screw (3) the head support can be adjusted to the desired head posture.

Afterwards retighten the clamping screw (3).

## Removing and height adjusting the head support

Loosen the clamping screw (4) to remove or to adjust the height of the head support. Either remove the head support or slide it to the desired position. Afterwards retighten the clamping lever (4).

## LEG SUPPORT

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

☞ Therefore observe chapter *Securing the electric wheelchair* on page 14.

### Height adjustment of the leg support

Before loosening the star screws (3) secure the position of the leg support with one hand against unintentionally swivelling down!

The inclination of the leg support [1] is manually adjustable.

For height adjustment, loosen the star screw (3) on each side and lift/lower the leg support into the desired position [2]. Afterwards retighten the star screws.

### Footboard

To decrease the overall length, e.g. for transport or to ease entry or exiting of the user, the footboard [1] can be folded upward [4].

- ☞ Observe the jamming area between footboard and telescopic rod!
- Remove both feet from the foot plate.
- ☞ Before starting to drive the footboard is to be lowered again [1].



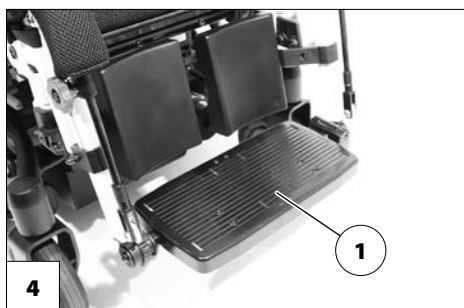


## Folding the footboard up

To fold the footboard (1) up, first turn the locking ring upward (2).

Afterwards fold the footboard up towards the side [3].

- 🔍 Observe the jamming area between footboard and telescopic rod!
- 🔍 Check the locking function after placing them and letting go of locking lever.

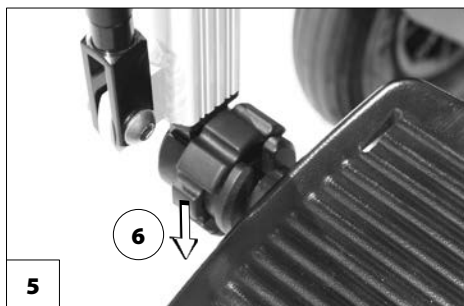
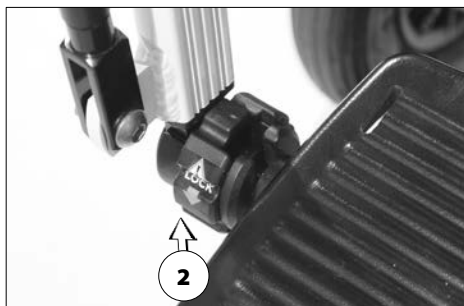


## Folding the footboard down

For down folding, first fold the footboard down to the side [4] and press as far as possible into the footboard bracket [5].

Afterwards turn the locking ring down (6).

- 🔍 Observe the jamming area between footboard and footboard bracket!
- 🔍 After lowering and locking, check the locking device for correct fit.



## Removing the leg support

For transport the leg supports can be removed if required [1].

To remove the leg supports, for the footboard up first.

☞ Therefore observe chapter *Folding the footboard up* on page 33!

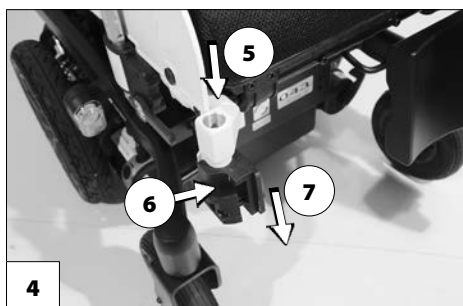
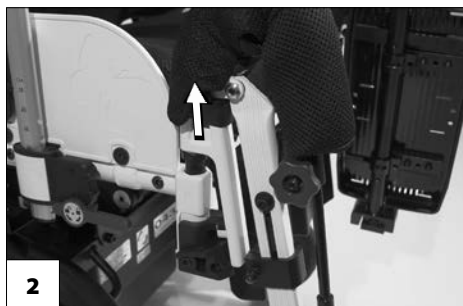
Afterwards lift the leg support [2], swivel it outward [3] and remove to the top [4].



## Attaching the leg supports

For attachment, hang the leg support, swivelled to side, into the frame tube (5).

Afterwards swivel the leg support inward (6) and press down for locking into place (7).



## Special safety information

Only drive on slopes, inclines and obstacles in the basic position of the seat height adjustment and the standing resp. lying function. – Danger of overturning!

## Seat pad

The seat pad [1] is attached to the seat plate with velcro straps and can be removed for cleaning and maintenance.

Replace and attach the seat pad again after cleaning or maintenance [1]. – Velcro fastener.

## Seat inclination

Any change to the seat inclination will lead to different driving behaviour!

Only adjust the seat angle [2] when the electric wheelchair is standing on a horizontal, level surface. A danger of tipping over exists on gradients.

The seat-angle adjustment is linked with an automatic speed reduction function.

An increased danger of tipping over exists with a reclined back support.

Before driving make sure that you have not adjusted a negative seat inclination, resp. that the seat inclination ensures a safe sitting position even while driving on hills/slopes.



## Electrically adjusting the seat angle

The seat inclination [2] is conducted through the adjustment module.

- ☞ Therefore observe chapter *Adjustment module* on page 13.
- ☞ Observe jamming area in the cross-brace sector of the seat frame!

## Seat height adjustment

Only operate the seat height adjustment on straight, level surfaces.

- Higher danger of tilting with increasing seat height!

Before seat height adjustment, check whether the adjustment area is free of obstacles.

- Danger of injury!

The seat height [1] can be adjusted through the adjustment module.

- ☞ Through this the seat height can be continuously increased or lowered.
  - ☞ For this observe chapter *Technical data* on page 53.
- ☞ Therefore observe chapter *Keys and symbols - adjustment module* on page 22.
- ☞ Observe jamming area in the shearing sector of the crossbrace!
- ☞ When the seat is guided upward from the initial position, the speed is limited to 3 km/h and the back lighting of the adjustment module switches from green to yellow.
  - ☞ For this observe chapter *Technical data* on page 53.

The limitations to speed are automatically reset as soon as the seat reaches the initial position..



## SHOULDER STRAP

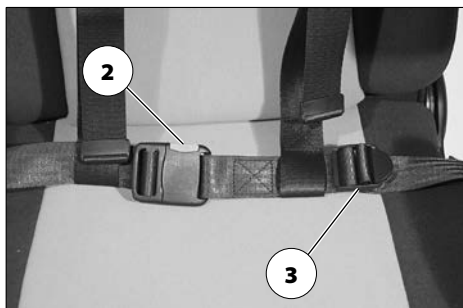
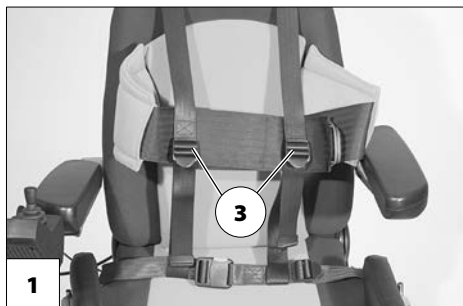
The shoulder strap is not part of the retaining system for the electric wheelchair and/or user during transport in a motor vehicle.

The shoulder strap should not be pulled too tight.

The shoulder strap (1) serves for additional stabilisation of a person sitting the electric wheelchair.

- Additional stabilisation of the sitting position.
- Prevents falling forward.
- Continuous adjustment to suit the user's needs.

The shoulder strap is screwed on, from the outer side, at the respective back support holder.



### Fastening the shoulder strap

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

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 shoulder strap the red locking button (2) is pressed down.

### Adjustment of belt length

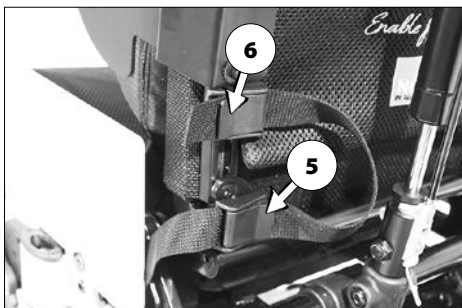
To adjust the length hold the respective strap buckle (3) at a right angle to the strap and position it accordingly.

## Adjusting the shoulder strap to the body

- ✎ The strap should not be pulled too tight.

To adjust the strap length, open the respective buckle (4) resp. (5). Readjust the strap and close the respective buckle again.

- ✎ Protruding ends of the strap can be fastened with the buckle (6) near the pelvis.



## LIGHTING

For driving outdoors and on public roads the electric wheelchair can be fit with LED-lighting equipment (1).

The lighting is activated through the driving module.

- ✎ Therefore observe chapter *Keys and symbols - driving module* on page 21.
- ✎ Always switch on the lighting system in poor visibility conditions and especially during darkness in order to see better and be better seen by others.
- ✎ Ensure that headlights, turn signals and taillights as well as reflectors are not covered by clothes or other objects attached to the electric wheelchair.



# LOADING AND TRANSPORTATION

Do not use the back support, leg supports, arm supports or restraints to lift the electric wheelchair!

The electric wheelchair must be switched off before lifting!

The parts detached for loading 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 the leg supports.
- Swivel up the push bar.
- Slide the length adjustment completely inward.

## Loading

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

### Ramps and lifting platforms

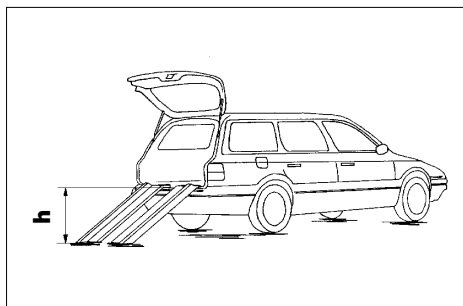
Observe the operating manual for the ramp or lifting platform.

Observe the manufacturer's information for the ramp or lifting platform.

The maximum bearing height specified for the ramp must be greater than the height 'h' from the ground to the loading surface, e.g. of the car.

The load capacity of the ramp or lifting platform must be higher than the overall permitted weight of the electric wheelchair.

There is a danger of tilting when driving backwards on ramps!



## Transport of people inside a motor vehicle


To determine if your electric wheelchair is approved as a seat for person transport inside a motor vehicle, please look at the type plate of your wheelchair.

- ☞ Therefore view chapter *Meaning of the labels on the electric wheelchair* on page 58.
- ☞ Electric wheelchairs that are not suited for use as a seat for transport in a motor vehicle are marked with an additional label. – For this observe chapter *Meaning of the labels on the electric wheelchair* on page 58.
- ☞ Observe the guideline < *Motor Vehicle transport - Safety with Meyra-wheelchairs, also during transport in motor vehicles* >! – This document and further information can be accessed on our website < [www.meyra.com](http://www.meyra.com) > in the < *Infozentrum* >.
- ☞ The dynamic back support adjustment is to be locked into place for person transport within a motor vehicle.
  - ☞ Transport of people with a released back support can lead to severe injuries.


## Transport security


All regulations and directions of the respective transport company are to be observed. – Ask for these before the transport.

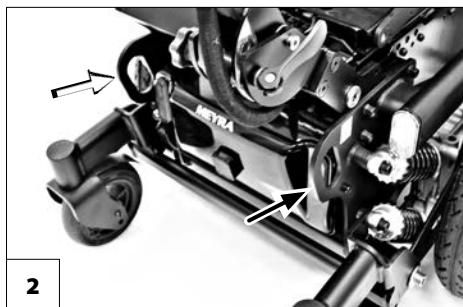
The steering unit is to be set as short and with as little protrusion as possible.

 All adjustments must be firmly locked.

The electric wheelchair is only to be secured through the securing points [1] and [2].

 For this also observe chapter *Meaning of the labels on the electric wheelchair* on page 58.

 The procedure for securing the electric wheelchair can be read in the document < *Safety and general handling instructions electric vehicles* > chapter < *Transport in motor vehicles or with conveyors* >. – This document and further information are available in the < *Information center* > on our website < [www.meyra.com](http://www.meyra.com) >.





## **TYRES**

Tyres are made of a rubber mixture and can leave permanent or difficult-to-remove marks on some surfaces (e.g. plastic, wooden or parquet flooring, carpets, mats). We cannot accept liability for damages on surfaces caused by wear or chemical processes of the tyres.


## **MAINTENANCE**

An incorrect or neglected cleaning and maintenance of the electric 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 electric wheelchair.

Maintenance schedule		
WHEN	WHAT	REMARK
<b>Before starting out</b>	<b>General</b> Test for faultless operation.	Carry out test yourself or with a helper.
	<b>Checking the magnetic brake</b>  Move the selection lever for the drive/push mode into the drive mode position on both sides.	Carry out test yourself or with a helper.  If the electric wheelchair can be pushed, have the brakes repaired immediately by the specialist workshop. – Danger of accident!
Especially before driving in the dark	<b>Lighting</b> Check the lighting equipment and reflectors for flawless functioning.	Carry out test yourself or with a helper.
<b>Every 2 weeks</b> (depending on distance covered)	<b>Check air pressure of the tyres</b> Tyre filling pressure:  View <i>Technical data</i> on page 53.	Carry out test yourself or with a helper. Use a tyre gauge.
	<b>Adjustment screws</b> Screws and nuts are to be checked for tight fit.	Carry out test yourself or with a helper.  Retighten the loosened adjustment screws.  Contact specialist workshop upon demand.

Maintenance schedule		
WHEN	WHAT	REMARK
<b>Every 6 -8 months</b> (depending on distance covered)	<b>Wheel attachments</b> Wheel nuts or screws are to be checked for tight fit.	Do it yourself or with the aid of a helper. Securely tighten any loosened wheel nuts or screws and retighten again after 10 operating hours or resp. 50 km. Contact specialist workshop upon demand.
<b>Every 2 months</b> (depending on distance covered)	<b>Check tyre profile</b> Minimum tread = 1 mm	Carry out a visual check yourself or with a helper. If the tyre profile is worn down or if the tyre is damaged, consult a specialist workshop for repairs.
<b>Every 6 months</b> (depending on frequency of use)	<b>Check</b> <ul style="list-style-type: none"> <li>– Cleanness.</li> <li>– General condition.</li> </ul>	View chapter <i>Cleaning</i> on page 50. Do it yourself or with the aid of a helper.
Manufacturer recommendation: <b>Every 12 months</b> (depending on frequency of use)	<b>Maintenance jobs</b> <ul style="list-style-type: none"> <li>– Electric wheelchair.</li> <li>– Battery charger.</li> </ul>	To be carried out by the specialist dealer.

## Fuses

### Replacing the fuses

Only replace the safety fuse with a safety fuse of the same type.

🔧 Therefore observe chapter *Technical data* on page 53.

Before replacing fuses, park the electric wheelchair on a level surface and secure it from rolling away.

🔧 Therefore observe chapter *Securing the electric wheelchair* on page 14.

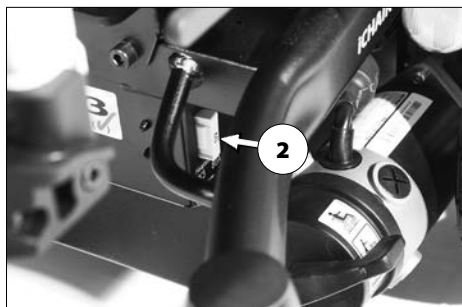
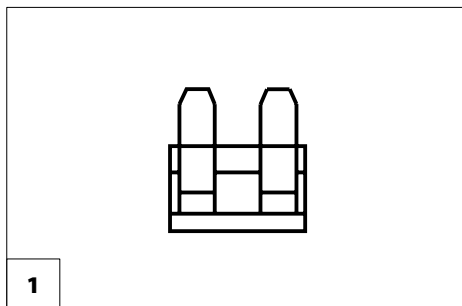
New fuses can be obtained for example at petrol stations.

🔧 If the safety fuse blows again, take the battery to a specialist dealer for repair.

### Fuse

Mains-/battery fuse [1]

The blade fuse for the battery current is plugged inside the fuse holder (2) of the battery case.



## Lighting

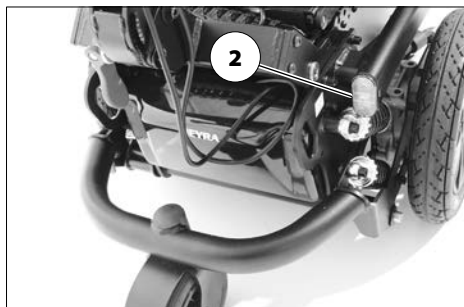
Have a defective lamp repaired immediately.

The lighting (1)+(2) is equipped with longlife LED-technology.

### Headlights

The housing of the light (1) must be adjusted so that the light cone is visible on the driving surface. – The lower edge of the light cone should be set at distance of 3 meters to the front of the electric wheelchair.

- ✎ The lighting case might need to be re-adjusted after adjustment of the seat inclination.
- ✎ If needed go to a specialist workshop for adjustment.



## ***FAULT CORRECTION***

<b>Fault</b>	<b>Cause</b>	<b>Remedy</b>
Battery indicator on the operating module does not light up after the switch-on.	Battery fuse is defective or not correctly inserted.	Replace defective fuse or clean contacts and insert correctly.
	Plug connection of the power supply without contact.	Check the plug connections.
The battery gauge blinks after the switch-on.	Malfunction in the electronics.	Have it repaired by the specialist workshop.
Lighting not active.	LED-lamp defective.	Let it be repaired or replaced by a specialist workshop.
	Lighting fuse or drive electronics defective.	Let it be repaired or replaced by a specialist workshop.

# BASIC SAFETY INFORMATION

This safety information is an extract of the *Safety and general handling instructions*, that can be found on our website: < [www.meyra.com](http://www.meyra.com) >.

Never reach into the swivel area of the components when operating adjustment devices, e.g. back support or leg supports. There is a danger of injury through squashing.

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

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

Adjust the seat inclination only when the electric wheelchair is standing on a horizontal, level surface. A danger of tipping over exists on gradients!

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

You should not smoke while using the electric wheelchair.

Exposure to direct sunlight can cause seat covers/upholstery, arm support pads, leg supports and handles to heat up to over 41 °C. – Contact with exposed skin can result in injury! Prevent such heating by parking the electric wheelchair in a shaded area.

Only transfer into or out of the seat when the electric wheelchair is switched off and the selection lever drive-/push mode on both sides is in drive mode!

An unintended pushing or steering motion when the driving lever is pressed can put the electric wheelchair into uncontrolled motion! – Danger of accidents!

## 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 electric wheelchair that are held onto by the accompanying person are to be checked for tight fit.

## Special driving situations

Depending on the setting of the seat, the forward view can be limited for the controlling person.

- ☞ This requires special care in order to prevent injuries to the occupant or third parties.

Special care is needed when manoeuvring in tight spaces.

- ☞ There is a danger of injuries through driving over your own feet or jamming parts of the body between the electric wheelchair and e. g. walls or furniture.
- ☞ Sufficient space and an adapted pre-selected speed are to be observed.

## Transfer out of the electric wheelchair

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

- ☞ Herefore additionally observe chapters *Securing the electric wheelchair* on page 14 and *Footboard* on page 32.
- ☞ We recommend when necessary to conduct the transfer from the electric wheelchair together with an additional aid.

## Reaching for objects

Only grab for objects during the stillstand of the electric wheelchair.

Avoid an extreme forward or backward inclination of the upper body when picking up or placing heavy objects. – Danger of electric wheelchair tipping over, especially in the case of narrow seat widths and high seat heights (for example 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 53.

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 high delay values).

Always drive with a low speed on rising/falling gradients.

Extreme inclinations or slopes are to be driven on with adequate final speed.

Never switch to push mode on gradients. The automatic brakes are inoperative in the push mode.

Do not push the vehicle on gradients.

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

Avoid driving on inclinations or slopes with insufficient surface condition. Even with only on sided existence of ice, water, moss or similar on the ground, there is a danger that the electric wheelchair will loose traction and begin to slide out of control. If necessary conduct an emergency braking immediately.

Never drive faster than walking speed.

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

At the end of the downward slope, take care that the footplate does 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 electric wheelchair in the downhill direction. You or an accompanying person must compensate for this drift by a counter-steering.



## Crossing obstacles

The obstacle crossing capability depends on the driving surface gradients, the adjustment of the footplate and other factors.

Each crossing of obstacles involves a risk!  
– tilting danger of the electric wheelchair.

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.

Keep well clear of obstacles like ruts, rails and gully covers or similar sources of danger.

Always drive slowly and at a right (90°) angle towards small obstacles, e.g. curbs/edges. Cross the obstacle forwards with about 0.5 m approach and simultaneously with both front- resp. rear wheels. Otherwise your electric wheelchair could tilt diagonally and you could fall out of the electric 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 electric wheelchair and carry you to the destination point.

You can easily fall out of the electric wheelchair when driving down a step (e.g. pavement curb) if the footplate lands on the driving surface. The crossing of rails or ruts requires increased attention. – Unwanted course deviation!

Safe travelling on stairs is not possible.

## Electrical system

An incorrect and/or inappropriate modification of the driving behaviour can impair the safety of the electric wheelchair and the electric wheelchair user. – Danger of accidents!

The electronic control system of the electric wheelchair must not be modified.

Should the electric wheelchair react in an unaccustomed manner or fulfil uncontrollable manoeuvres, the emergency braking is to be conducted immediately and/or the electric wheelchair to be switched off at once.

## Transport in public methods of transportation

Your electric 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 electric 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 electric wheelchair.
- Park your electric wheelchair opposite to the driving direction in the reserved space.
- The electric 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 electric wheelchair must also lie against the border of the parking space, so that the electric

wheelchair cannot slide away in case of an accident or sudden braking manoeuvre.

- Additionally activate the parking brakes.

## Driving on public highways

Observe the valid regulations for public traffic of your country and if necessary ask your specialist dealer for required accessories.

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

- Headlights,
- Rear reflectors.

With limited visibility and especially in the dark we recommend to mount active lighting equipment and to turn it on in order to see better and be seen.

- 🔧 Before participating in public traffic, the controlling person must check and ensure the functional and operational condition of the electric wheelchair.
- 🔧 The valid traffic regulations must be observed and abided when participating in public traffic.
- 🔧 Wear light-coloured and conspicuous clothing when driving in darkness.
- 🔧 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 electric wheelchair.
- 🔧 In case of physical limitation, such as blindness or deafness, a driving ability certifications for driving of the electric wheelchair is required.

## CLEANING

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

Do not clean the electric wheelchair with a high-pressure cleaner! – Danger of short circuit!

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 59.

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 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.
- 🔧 When using commercial plastic cleansers the manufacturers application instructions are to be observed.

Keep the lighting components clean at all times and check for correct functioning before each journey.

- 🔧 Keep water and moisture away from electrical components and cabling!

- Danger of damage to the electric and the operating keyboard through water jets.

Silicone free water based cleaning agents and care products should be used for the care of the vehicle.

-  In doing so the manufacturers instructions are to be observed.


Do not use aggressive cleaning agents e.g. solvents, or hard brushes etc.

Further information to cleaning can be found in the < *Information center* > 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.

You can get information on tested and permitted disinfectants and procedures at your national facility for health protection.

-  During the use of disinfectants it can happen that surfaces might be affect-

ed 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 electric wheelchair! You will find this on the type plate.

Whenever repair work on the electric wheelchair is carried out by the specialist dealer, the supplementary information, e.g. assembly/operating instructions must be attached to the operating manual of the electric wheelchair, the date of the modifi-

cation must be recorded and stated when ordering spare parts.

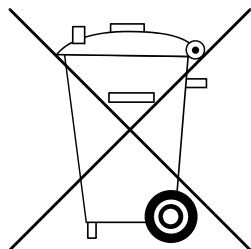
This should prevent wrong order details on future spare parts orders.

## Information for extended pauses of use

In case of longer periods without use, the following measures are required:

- ☞ Charge the batteries at least once a month for a period of more than 16 hours.
- ☞ The storage temperature is to be observed.
  - ☞ For this observe chapter *Technical data* on page 53.

## DISPOSAL



The disposal must comply with the respective national law.

Please enquire about local disposal arrangements at your municipal authority.

## TECHNICAL DATA

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

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

### Calculation of the max. user weight:

The maximum total load is calculated on the basis of the unloaded weight of the electric 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

## **Maximum range**

The nominal values indicated by are reasonable in compliance with ISO 7176-4:

The maximum range depends to a large extent on the following factors:

- battery condition,
- weight of the driver,
- driving speed,
- driving style,
- road surface condition,
- driving conditions,
- ambient temperature.

The maximum range is greatly reduced by:

- frequent uphill driving,
- insufficient charging condition of the drive batteries,
- low ambient temperature,
- frequent starts and stops (e. g. in shopping malls),
- aged, sulphated drive batteries,
- frequently necessary steering manoeuvres,
- reduced driving speed (especially at walking speed).

In practical use, the maximum range under 'normal conditions' is then reduced to approx. 80 – 40 % of the nominal value.

## Hill climbing ability

Gradients in excess of the permitted values (e.g. ramps) should for safety reasons only be driven when the wheelchair is empty!

## Applied norms

The electric wheelchair complies with the norm:

- EN 12184: 2014
- ISO 7176-8: 2014
- ISO 7176 -19: 2008
  - Assessment of the Crashtest, in which the electric wheelchair is attached to the retaining system of the vehicle, has been carried out according to the testing methods of annex D.

The model has been assigned the 'Use Class B' as per the EN 12184 standard.

The applied parts and components we use are in compliance to EN 1021-2 for resistance against inflammation.

## Values acc. to ISO 7176-15 for model 1.623 iCHAIR Dynamic

	min.	max.
Overall length with footboard	1060 mm	1810 mm
Overall width	600 mm	600 mm
Overall dimensions	– kg	260 kg
User weight (incl. additional load)	– kg	75 kg
Weight of the heaviest part	– kg	4.5 kg
Actual seat depth	250 mm	350 mm
Actual seat width	300 mm	400 mm
Folding length	– mm	– mm
Folding width	– mm	– mm
Folding height	– mm	– mm
Seat surface height at front edge (without cushion)	460 mm	560 mm
Seat height adjustment electric (without cushion)	460 mm	860 mm
Electric seat angle (electric)	0°	30°
Back support angle	90°	125°
Back support belt height	400 mm	500 mm
Footplate to seat (lower shank length) without cushion	180 mm	290 mm
<u>Nominal inclination</u>		
Static stability downhill	–°	9° (16 %)
Static stability uphill	–°	9° (16 %)
Static stability lateral	–°	9° (16 %)
Dynamic stability uphill	–°	6° (11 %)
Angle leg support - seat surface	100°	180°
Arm support height from seat surface (without cushion)	180 mm	260 mm
Back support to front edge of arm support	230 mm	330 mm
Obstacle height	– mm	60 mm
Minimal turning radius (normative recommendation according to ISO 1000 mm)	650 mm	– mm

## Values acc. to ISO 7176-15 for model 1.623 iCHAIR Dynamic

	min.	max.
Forward top speed (depending on equipment)	6 km/h	6 km/h
Minimum breaking distance from top speed	1000 mm	1000 mm
Maximum range	30 km	40 km
Axle horizontal position	– mm	– mm

## Further technical data for model 1.623 iCHAIR Dynamic

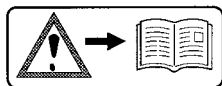
	min.	max.
Sound level		70 dB(A)
Protection class	IP X4	
Turning area	1400 mm	– mm
Drive controller	24 V / 70 A	
Engine output (6 km/h)		180 W
Main fuse	80 A	
Lighting (option)	LED-technology 24 V	
Additional load	– kg	10 kg
Permitted axle load front	– kg	110 kg
Axle load, drive wheel	– kg	150 kg
Ground clearance drive	70 mm	
Ground clearance battery tub	70 mm	
Empty weight (with drive batteries)	138 kg	156.8 kg
Empty weight (without drive batteries)	109.6 kg	– kg
Overall height	– mm	– mm
Seat cushion thickness	– mm	– mm



## Further technical data for model 1.623 iCHAIR Dynamic

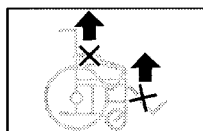
	min.	max.
<u>Transport dimensions</u>		
Length (without leg supports)	860 mm	– mm
Width	– mm	600 mm
Height without arm supports, cushion removed, back support folded onto the seat	640 mm	960 mm
<u>Climatic data</u>		
Ambient temperature	-25 °C to +50 °C	
Storage temperature with drive batteries	-25 °C to +50 °C	
Storage temperature without drive batteries	-40 °C to +65 °C	
<u>Steering wheel</u>		
ø 200 x 50 mm (8")	pneumatic tyres, max. 2.5 bar (36 psi) puncture proof puncture safe Solid rubber	
<u>Driving wheel</u>		
ø 320 x 60 mm (12,5")	pneumatic tyres, max. 2.5 bar (36 psi) puncture proof puncture safe Solid rubber	
<u>Drive batteries</u>		
2 x 12 V 42.5 Ah (5 h) / 50 Ah (20 h)	sealed, maintenance free	
2 x 12 V 63 Ah (5 h) / 73 Ah (20 h)	sealed, maintenance free	
Max. battery dimensions (LxWxH)	259 x 173 x 209 mm	
Charging current	– A	12 A

## Meaning of the labels on the electric wheelchair



### Attention!

Read the operating manuals and other provided documentation.



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

Removable parts are not suitable for carrying.



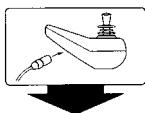
Drive mode



Push mode



Push only on level surfaces.



Indication for charging socket.



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



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



Indication for danger of jamming.

The upper part is attached flexibly or swivelling and thus forms a jamming area in the lower section.

– Do not grab into the jamming area.



Max. permitted user weight if the product is approved as a seat within a motor vehicle.



Arm support locking device

## Meaning of the labels on the electric wheelchair



Reference to the angle adjustment of the back support  
(symbol printed on grip)

## 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.



Hand wash only



Do not bleach.



Not suited for the dryer.



Do not iron.



Do not dry-clean.

## Meaning of the symbols on the type plate



Manufacturer



Order number



Serial number



Production date



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.



Max. permitted user weight if the product is approved as a seat within a motor vehicle.



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



Medical device

# INSPECTION CERTIFICATE

## Electric wheelchair 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

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.

We accept legal liability for this product within the scope of our 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.

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

For evaluation of our products you can use our < *Information center* > sector < *PMS* > on our website < [www.meyra.com](http://www.meyra.com) >.

We reserve the right to make technical improvements.



This product fulfils the requirements of the directive (EC) 2017/745 for medical devices.

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  
Electric wheelchair 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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