



(GB)

# **OPERATING MANUAL**

SMART, Model 9.906



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## INTRODUCTION

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

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

Like any other vehicle, an electric wheelchair is a technical aid. It is subject to explanations, requires regular care and can cause danger when used improperly. The correct handling must therefore be learned. This operating manual is to help you get accustomed to the handling of the electric wheelchair as well as to prevent accidents.

#### ™ Note:

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

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

#### **Attention:**

- Read and observe the following
   documentation belonging to the electric wheelchair before first use:
- this operating manual,
- the operating manual < Operating module >,
- the safety and general handling instructions < Electronic vehicles >.

#### ™ Note:

Children and juveniles should read the documentation belonging to the electric wheelchair together with their parents respectively a supervisor or accompanying person before first use.

Users with visual impairments can find the PDF-files of above mentioned documents on our website under:

< www.meyra-ortopedia.com >.

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

Additional information about our products can be found on our website:

< www.meyra-ortopedia.com >.

Contact your specialist dealer when required.

## **INDICATIONS**

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.

# **SPECIFICATIONS**

The electric wheelchair is an environment-friendly electronic vehicle. It was developed to extend the mobility of persons with health-related or agerelated restrictions.

The model has been assigned the 'Use Class B' as per the EN12184 standard.

## **ACCEPTANCE**

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

#### ™ Note:

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

#### ™ Note:

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

#### USE

The electric wheelchair, with attached leg supports and arm supports, serves exclusively for the conveyance of one sitting person. Other pulling or transporting uses do not comply with its intended purpose.

This model is an electric wheelchair especially for indoor and outdoor use on firm, level surfaces.

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

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

#### **Attention:**

- ↑ Always have adaptation and ad-
- justment work carried out by a specialist dealer.

### **ADJUSTMENT**

The specialist workshop will hand out the electric wheelchair to you under consideration of all relevant safety instructions, ready for operation and adjusted to your needs.

#### ™ Note:

- We recommend a regular control if the wheelchair adjustment in order to ensure a long-term optimal provision even with changing illness/handicap patterns of the user. Especially for children and juveniles an adjustment every 6 months is recommendable.
- We recommend regular medical exams in order to ensure safety for active participation in traffic.
- Retrospective adjustments should be carried out solely by the specialist dealer!

# **LIFE SPAN**

We expect an average lifespan 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 life span does not constitute additional guarantee.

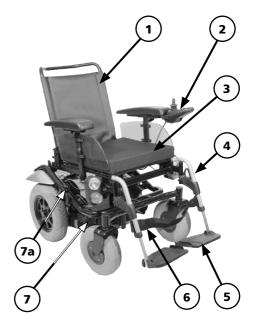
## **OVERVIEW**

### Model: 9.906

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

# Pos. Description

- 1 Back support
- 2 Operating module
- 3 Seat cushion
- 4 Leg support
- 5 Footplate
- 6 Calf strap
- 7 Selection lever drive-/push mode (VR2 electronic)
- 7a Selection lever drive-/push mode (CAN-Bus electronic)
  - 8 Arm support
  - 9 Steering wheel
- 10 Drive wheel
- 11 Support castor
- 12 Baggage rack
- 13 Push bar

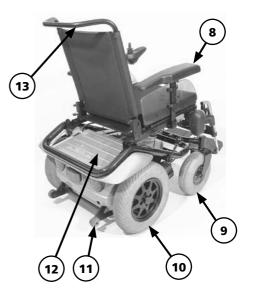




Drive mode



Push mode



# HANDLING THE ELEC-TRIC WHEELCHAIR

# Securing the electric wheelchair

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

- Switch the selection levers for drive-/push mode (7) up to drive mode on both sides.
- 1a. Swivel the selection lever drive-/ push mode (7a) forward as far as possible.
- 2. Switch the operating module off.

### **Functional checks**

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

For this observe chapter < *Inspections before starting to drive* > in the accompanying documentation.

# **Driving behaviour**

You define the speed and direction yourself with the joystick movements (driving and steering lever) while driving as well as the preadjusted maximum final speed of your electric wheelchair.

#### **BRAKES**

# **Operating brake**

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

#### **Braking the wheelchair**

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

The electric wheelchair stops in shortest distance after releasing the joysticks.

# **Parking brake**

The parking brakes are only effective when the selection lever(s) drive-/push mode is/are set to drive mode. They disengage automatically when the wheelchair starts off.

The parking brakes are manually disengaged by switching the selection lever(s) drive-/push to push mode.

# Specific features of the central selection lever drive-/push mode

Activation of the selection lever can only be achieved when simultaneously pulling up the locking sleeve (2) [1].

# **Locking the brakes**

#### **Attention:**

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

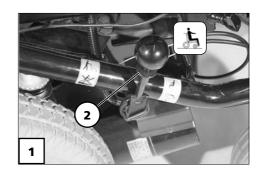
#### **Version 1:**

To engage the brakes swivel the selection lever drive-/push mode on both sides as far as possible into drive mode [3].

Activation of the selection lever is intended for an accompanying person.

#### **Version 2:**

To engage the brakes swivel the selection lever drive-/push mode as far as possible forward into drive mode [3a].







### Releasing the brakes

#### **Attention:**

- 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!
- An unintentional movement of the joysticks (driving and steering lever) can otherwise lead to an uncontrolled start of the electric wheelchair! – Danger of accidents!

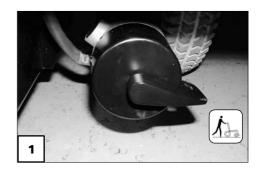


To loosen the brakes swivel the selection lever drive-/push mode on both sides down as far as possible into push mode [1].

Activation of the selection lever is intended for an accompanying person.

#### **Version 2:**

To loosen the brakes engage the locking sleeve on the selection lever and swivel the selection lever as far as possible towards the back [1a].





# **Drive-/push mode**

#### **Attention:**

- 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.
- The electric magnetic brakes are switched off in the push mode.
  - A braking of the electric wheelchair is then only possible by switching to the drive mode.
- Grab hold of the push handle and back support in order to shunt the electric wheelchair.

# Selecting the push mode

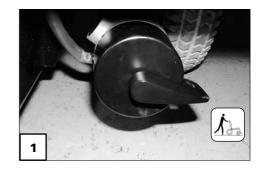
- Switch off the operating module because the pushing will otherwise be made difficult by the electric system.
  - Observe the operating manual < Operating module >.
- 2. Disengage the brakes [1] resp. [1a].

  Therefore observe chapter

  < Releasing the brakes >.
- The electric wheelchair can now be pushed.

## Selecting the motor mode

- 1. Activate the brakes [2] resp. [2a].
  - Therefore observe chapter < Locking the *brakes* >.
- 2. Switch the operating module on.
  - Observe the operating manual < Operating module >.
- The electric wheelchair is now ready for use again.









# SELECTING THE OPERA-TION

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

#### ™ Note:

Charge the drive batteries via the operating module before the first journey.

### 1. Establish drive mode

Switch the drive motors to drive mode [1] resp. [1a]. – For this engage the brakes.

Observe chapter < Releasing the brakes >.

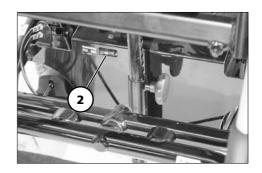
# 2. Check the correct fit of the battery/mains fuse

Blade-type fuse:

The blade fuse for the battery/main current has to sit tightly in the fuse holder (2).







# 3. Checking the position of the operating module

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

### **Horizontal adjustment:**

After loosening the clamping screw (3) the operating module can be adjusted horizontally.

#### Attention:

Tighten the adjusting screws again.

# Vertical adjustment:

Therefore observe chapter < Positioning the operating module >.

### 4. Switching the operating module on

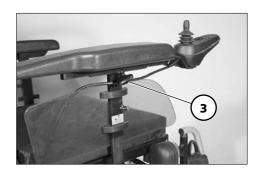
Press the ON/OFF-key on the control panel of the operating module.

#### ™ Note:

Only actuate the joystick (4) after the self-test of the electronics has been completed!

# **™** Key-lock function:

- The key-lock function enables you to secure the electric wheelchair against unauthorised use.
- Observe user manual < Operating module >, chapter < Key function >.





# **Pre-operation checks**

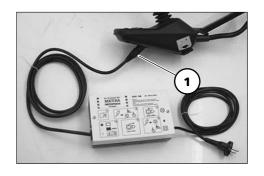
Before starting to drive, the following should be checked:

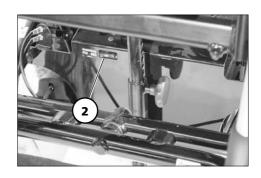
- reference the battery charging condition,
- the setting of the preselected final speed.
- For this observe the operating manual < Operating module >.

# **Battery charging procedure**

- 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 >.
- 2. Insert the battery charger plug into the operating module (1).

- Do not insert any objects other
   than the battery charger plug into the battery charging socket.
  - Danger of short circuit!
- 3. Switch the battery charger on, resp. insert the main plug of the battery charger into the corresponding power socket.
  - The battery charging procedure is initiated.
- The charging procedure only runs with an intact mains/battery fuse (2)!
- 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 operating module

### **Function description**

You will find a detailed description of the keys and symbols in the operating manual for < Operating module >.

The position of the operating module can be adjusted to suit the individual size of the user. The operating module can also be removed for transportation or storage and can be laid on the seat or stored separately.

#### **Attention:**

Switch off the operating modulebefore adjusting/removing it.

# Adjusting the distance to the padded arm support

Slacken the clamping screw distance adjustment (1). Afterwards slide the operating module into the desired position. In doing so carefully guide the cable and retighten the clamping screw (1) securely.

## Removing the operating module

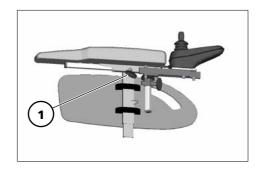
To remove the control unit, slacken the clamping screw (1).

Carefully route the cable when doing this.

Afterwards pull out the operating module toward the front out of the arm support tube.

# Inserting the operating module

For drive mode insert the operating module from the front into the arm support tube and adjust the distance to the padded arm support.



- Therefore observe chapter < Adjusting the distance to the padded arm support >.
- Check the function of the operating module.

# Swivelling the operating module

With the optional swivel away operating module adapter [1] the operating module can be swivelled back to the side (2) so that it is located parallel to the arm support. This makes it possible, for example:

- to drive closer to a table,
- remove the operating module more easily.

For regular drive mode the operating module can be swivelled back toward the front until it engages back into the magnetic lock [1].

#### ™ Note:

- The power of the magnets (3) can be reduced, for example with tape on top of the magnets, for easier swivelling of the operating module.
- Should the operating module be positioned too close to the arm support, move it forward before swivelling.

#### **Attention:**

Do not grab into the area of thecross brace. – Danger of jamming!

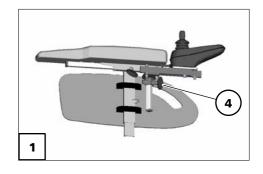
# Height adjustment of the operating module

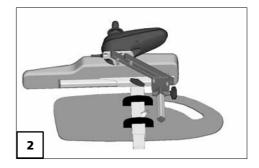
Loosen the clamping screw (4) to adjust the height of the operating module.

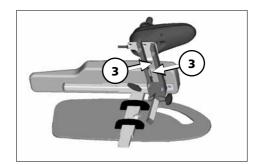
#### Attention:

After the adjustment retighten the

• clamping screw.







# **ARM SUPPORTS**

#### Attention:

- Do not use the arm supports [1] to
- lift or carry the electric wheelchair.
- Do not drive without the arm supports!

# Removing the arm support

To remove the arm support, loosen the clamping screw (2) first and then pull out the arm support toward the top.

### ™ Note:

The operating module (4) must be removed first if the arm support on the control side is to be removed.

Therefore observe chapter < Removing the operating module >.

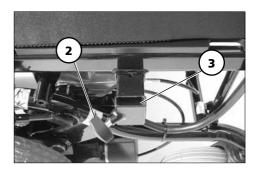
# Inserting the arm support

For inserting the arm support, first slide the arm support as far as possible into the bracket (3) and then tighten the clamping screw (2).

#### ™ Note:

To insert the operating module (4) observe chapter < Inserting the operating module >.







## **BACK SUPPORT**

The back support can be folded down for storage or transport.

#### ™ Note:

For better demonstration of the wire cable (1) the back support is shown without cushion.

# Folding down the back support

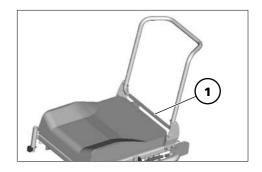
- If required remove the seat pad (velcro fastener).
- Disengage the back support by pulling or pressing the wire cable (1) at its centre and fold it onto the seat [2].

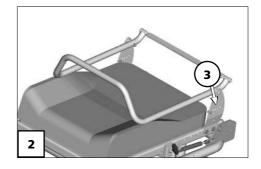
# **Unfolding the back support**

- For this raise the back support and pull the pressure bolts inward by pulling or pressing on the wire cable (1).
- Release the wire cable in order to lock the back support in the desired position (3). – Slide the back support until the pressure bolts audibly click into place.
- If required replace the seat pad.

#### ™ Note:

- The greasing of the thrust bolts is recommended for an easier latching of the back support.
- Check the lock of the back support.





## Adjusting the back support angle

- Unlock the back support by pulling or pressing the centre of the wire cable (1).
- Release the wire cable in order to lock the back support in the desired position (3). – Slide the back support until the pressure bolts audibly click into place.
- Check the lock of the back support.

# **Adjustable back**

The adjustable back is adjustable through a velcro strap on the spanning straps (2).

# 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 (3).

# 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).

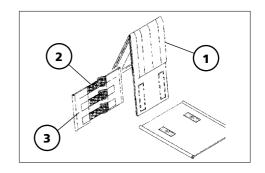
For a soft upper edge you should leave a little space between the upper spanning belt (2) and the folded back support upholstery (1).

#### ™ Note:

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 bot-





tom seat surface depending on the adjusted back support height (4).

# Electrically adjustable back support

The back support [1] is electrically adjustable.

#### ™ Note:

Herefore view the operating manual < Operating module >.

#### Attention:

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

# Folding down the electrically adjustable back support

To fold the electrically adjustable back support [2] down, first press the release button (3), then remove the pin (4).

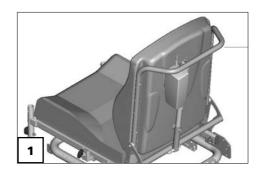
Keep the back support in position with one hand at the push bar.

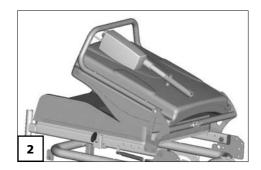
Afterwards fold the back support down [2].

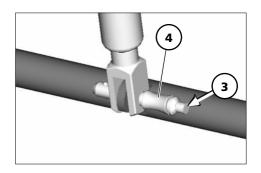
Reinsert the pin (4) in order to prevent loss.

# **Unfolding the back support**

Check the locking device after folding the back support up and reinserting the pin.







# **Back support upholstery**

The back support upholstery is secured to the back support shell with Velcro fasteners and can be pulled off [1].

## **SEAT**

# **Seat pad**

The seat pad [2] is attached to the seat plate with velcro straps and can be removed for cleaning and maintenance.

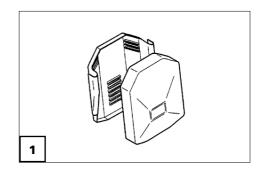
Replace and attach the seat pad again after cleaning or maintenance [2]. – Velcro fastener.

## **Seat inclination**

The seat angle [3] can be adjusted for a safe sitting position as well as for cleaning.

Therefore observe chapter < Adjusting the headlights > and < Technical data >.

- Adjust the seat angle only when the electric wheelchair is standing on a nearly level surface. – A danger of tipping over exists on gradients!
- The seat-angle adjustment is not linked with an automatic speed reduction function.
- An increased danger of tipping over exists with a reclined back support.
- Before starting to drive make sure that no negative seat angle has been adjusted, respectively that a safe seating position is ensured.





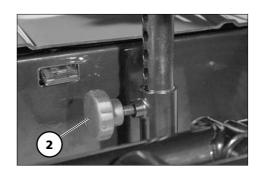


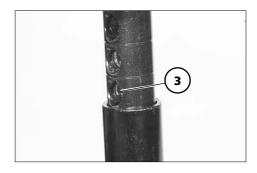
# Mechanically adjusting the seat angle

The seat angle (1) can be adjusted through the telescope rod.

- Before adjusting the seat angle mechanically, lift the seat slightly and turn the clamping screw (2) far out.
- Lift or lower the seat into the desired angle.
- Screw the clamping screw (2) into the next possible hole (3) and tighten them.

- In doing so make sure that the
   point of the clamping screw turn itself into the respective hole.
- Do not lift the seat further than up to ninth visible hole (3).





# Electrically adjusting the seat angle

The seat inclination [1] is administrated through the operating module or a separate adjustment module.

#### ™ Note:

Therefore observe operating manual < Operating module >.

# **Rising aid**

The seat is angled forward for the stand-up aid [2] (negative seat angle).

- The negative seat angle setting serves as support for getting up when the vehicle is standing.
- When tilting the seat surface forward (rising aid) the steering wheels must face toward the back or one side, because otherwise the footplates will hit against the steering wheels.

- Before using the rising aid, secure
   the electric wheelchair and fold up the footplates.
- Therefore observe chapter < Securing the electric wheelchair >.



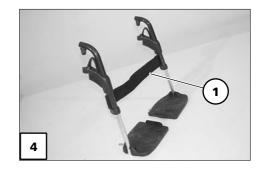


## **LEG SUPPORTS**

#### Attention:

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

Therefore observe chapter < Securing the electric wheelchair >.



### Calf belt

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

#### **Attention:**

Do not drive without the calf belt.

– Danger of accidents!

#### ™ Note:

The calf belt must be removed in order to swivel away the leg supports [2].

The calf belt is omitted for height adjustable leg supports and is replaced by a calf pad.

# Removing the calf belt

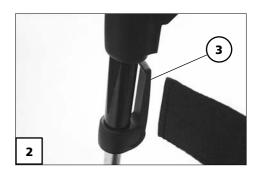
For removal the calf belt is to be pulled from the attachment pins (3).

# Attaching the calf belt

For attachment both loops of the calf belt are slid over the attachment pins [4].

## 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.



# Leg support lower part

The footplates, resp. footboard needs to be folded up before entry or exit [1].

Check the locking points!

- Remove both feet from the footplates.
- Remove the calf belt (2), if present.
   Hereto observe chapter < Calf belt >.



Before starting to drive the footplates resp. footboard need to be folded back down [3] and the calf belt attached.

# **Footplates**

The footplates can be folded outward and up [1] resp. inward and down [3].

#### **Footboard**

Fold the footboard up before swivelling away and removing the upper leg support.

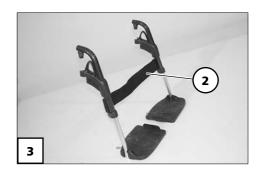
# Folding up the footboard

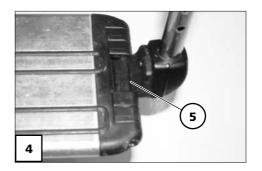
In order to fold up the footboard lift the loose end of the footboard [4] as far as possible.

# Folding the footboard down

In order to fold down the footboard, lower the loose end of the footboard as far as possible down onto the footboard bracket (5).







# Leg support upper part

The upper leg support with an inserted lower leg support is termed leg support.

# Turning the leg supports to the side

For easy transfer out of/into the electric wheelchair as well as driving closer to a closet, bed or bathtub the leg supports can be swivelled away toward the in-/outside [1] and [2].

#### ™ Note:

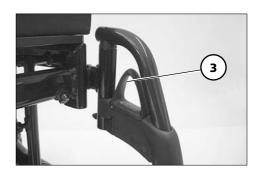
Remove the calf belt before swivelling away the leg supports.

Hereto observe chapter < Calf belt >.

- Leg supports turned to the side
   are released automatically and can easily come off. Note this when handling (e.g. transport).
- Fold up the footplates resp. footboard in order to swivel away the leg supports.
  - Hereto observe chapter < Leg support lower part >.
- Afterwards pull or press the respective locking lever (3) backward and swivel the corresponding leg support outward.









# **Swivelling in the leg supports**

For inward swivelling, let the leg supports swivel forward until the lock audibly engages [1].

### ™ Note:

After audibly swivelling the leg supports inward check the respective locking device.

Afterwards observe chapter < Lower leg support >.



# **Removing the leg supports**

For easy transfer into and out of the electric wheelchair as well as a reduced wheelchair length (important for transport) the leg supports can be removed [1].

#### ™ Note:

Remove the calf belt before swivelling away the leg supports.

- Hereto observe chapter < Calf belt >.
- For removal first swivel the leg support sideways and then remove them toward the top [1].
  - Therefore observe chapter < Swivelling away leg supports >.

Watch for possible danger of jamming!

## **Attaching the leg supports**

For inserting press the leg supports, swivelled to the side, parallel to the front frame tube and lower it into place [2]. – In doing so the holding pin must slide into the frame tube.

#### ™ Note:

After attachment swivel the leg supports inward [3].

Therefore observe chapter < Swivelling in the leg supports >.







# Mechanically height-adjustable leg supports

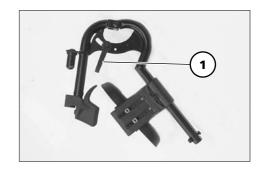
#### Attention:

- Never put the free hand into the adjustment mechanism while adjusting the height adjustable leg support. Danger of crushing!
- Have the leg support that is to be adjusted secured against falling away by an accompanying person.



- 1. Before lifting/lowering relieve the leg support by an accompanying person by slightly lifting it up.
- 2. Afterwards loosen the clamping lever (1) and have the leg support lifted/lowered slowly to the desired level by an accompanying person.

- Do not let the leg support drop onits own weight. Danger of injury!
- 3. After the adjustment retighten the clamping lever (1) securely.



# Electrically height-adjustable leg support

The electrically height adjustable leg support [1]+[2] automatically receives electric contact when hooked on.

#### **Attention:**

Never put the free hand into the adjustment mechanism while adjusting the height adjustable leg support. – Danger of crushing!

# **Height adjustment**

-For height adjustment, raise or lower the leg support to the desired height via the operating module (1)+(2).

Observe the operating manual < Operating module >.

- **♦** Observe the safety and general
- handling instructions < Electronic vehicles >!





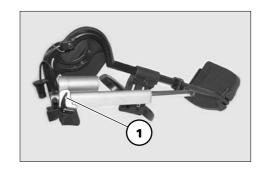
# Removing the electrically height adjustable leg support

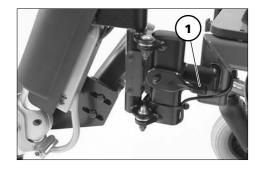
In order to remove the leg support, depending on version, first pull the locking lever (1) back, press it in or fold it up or down.

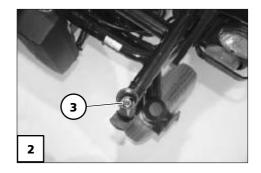
Afterwards swivel the leg support sideways and remove it toward the top [2].

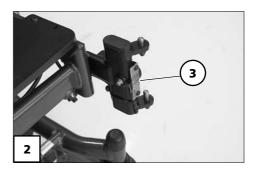
Therefore observe chapter < Swivelling away leg supports >.

- When the electrically height adjustable leg supports are removed the electric contact (3) needs to be protected from dampness, water and dust or dirt (e. g. for longer storage)!
  - Possible function error of the electrical adjustment.
  - For protection you can for example use the optional cover cap.





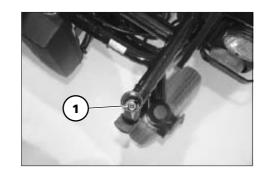




# Hanging the electrically height adjustable leg support into place

#### ™ Note:

- After attachment swivel the leg supports inward.
- Therefore observe chapter < Swivelling in the leg supports >.
- Press the leg supports, swivelled to the side, parallel to the front frame tube and lower it into place.
   In doing so the holding pin must slide into the frame tube (1).
- Conduct a function test on the electrically height adjustable leg support!



# Stump support

#### Removal

First pull back or press the locking lever (1). Then swivel out the leg stump support and pull it off in an upward direction.

### Hanging-in

With the leg stump support in a swivelled-aside position, hang it in and then swivel it to the front until the locking device audibly locks into place.

Check for a correct locking of the locking device!

# **Height adjustment**

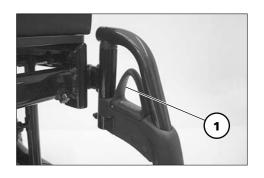
Secure the leg stump support against unintentional lowering.

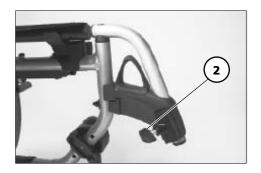
Loosen the clamping screw (2) and adjust the desired height. Afterwards retighten the clamping screw (2).

# **Angle adjustment**

Secure the leg stump support against unintentional lowering.

Loosen the clamping lever (3) and set the desired angle. Afterwards retighten the clamping lever (3).







# **RETAINING STRAP**

The retaining strap serves to strap in a person sitting in the electric wheel-chair.

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

#### **Attention:**

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

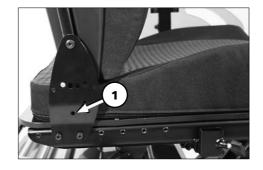
The retaining strap is screwed on, from the outer side, at the respective back support holder (1).

#### ™ Note:

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

#### Attention:

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



## **HEAD SUPPORT**

The head support is swivel/proof, height- and depth adjustable and removable [1].

#### **Attention:**

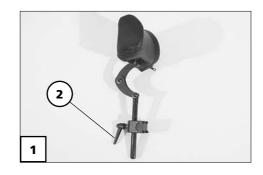
 We recommend the fitting of two
 rear-view mirrors for driving with a head support.

# Adjustment of the head support

The head support can be detached or adjusted in height after the clamping lever (2) has been slackened.

#### **Attention:**

- The maximum height adjustment
- is indicated by the marking!



# ATTENDANT CONTROL WITH PRIORITY SWITCH

The control unit for accompanying person enables the accompanying person an easy control of the electric wheelchair with auxiliary operating module.

## **Positioning the controller**

#### ™ Note:

Switch off the operating module before position adjustment! – This prevents an unwanted movement of the electric wheelchair.

## **Height adjustment**

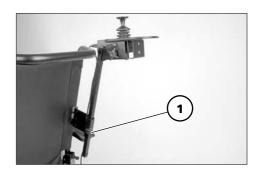
Hold the operating module and then slacken the clamping screw (1).

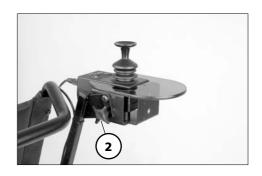
Move the operating module into the desired position and retighten the clamping screw.

# **Angle adjustment**

Hold the operating module and then slacken the clamping screw (2).

Swivel the operating module into the desired position and retighten the clamping screw.





## LIGHTING

For driving outdoors and on public roads the electric wheelchair can be fit with lighting [1].

The lighting is activated over the operating module for the driver.

#### ™ Note:

Observe the operating manual < Operating module > as well as the safety and general handling instructions < Electronic vehicles >!

## **REAR-VIEW MIRROR**

### Removing the rear-view mirror

To remove the rear-view mirror loosen the clamping screw (2) and pull the rear-view mirror forward.

#### ™ Note:

Carefully place the rear-view mirror down and protect the mirror glass from strain or other objects.

The rear-view mirror is to be kept clean at all times.

 Use common glass cleanser to clean the mirror. For this the users instructions of the manufacturer are to be observed.

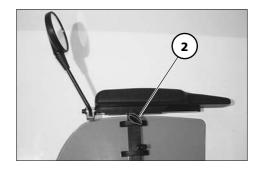
## Attaching the rear-view mirror

Reinsert the rear-view mirror for drive mode. Tighten the clamping screw (2).

# Adjusting the rear-view mirror

- 1. Preadjust the rear-view mirror by turning the clasp.
- 2. Turn the rear-view mirror on the attachment rod and ball joint until you reach the desired angle.





# LOADING AND TRANS-PORTATION

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

#### **Attention:**

The electric wheelchair must be switched off before lifting!

# Loading

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

#### ™ Note:

Observe safety and general handling instructions < Electronic vehicles > chapter < Ramps and lifting platforms >.

# 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.

#### ™ Note:

Observe the guideline < Safety with Meyra-Ortopedia-wheel-chairs, also during transport in motor vehicles >! – This document and further information can be accessed on our website < www. meyra-ortopedia.com > in the < Download Archive >.

# **Transport security**

The electric wheelchair is only to be secured through the four securing points (1) and (2).

- The anchor positions are marked with the symbol [3].
- The procedure for securing the wheelchair can be read in the document < Safety and general handling instructions electronic vehicles > chapter < Transport in motor vehicles or with conveyors >.



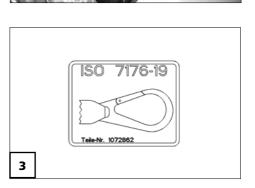
# **MAINTENANCE**

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

#### **Maintenance**

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

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



# **Maintenance schedule**

WHEN	WHAT	REMARK
Before starting out	General Test for faultless operation.	Carry out test yourself or with a helper.
	Checking the mag- netic brake	Carry out test yourself or with a helper.
	Move the selection lever for the drive/push mode into the drive mode position on both sides.	If the electric wheelchair can be pushed, have the brakes repaired immediately by the specialist workshop.  – Danger of accidents!
Especially before driving in the dark	Lighting Check the lighting equipment and reflectors for flawless functioning.	Carry out test yourself or with a helper.
Every 2 weeks (depending on distance covered)	Check air pressure of the tyres Tyre filling pressure: 2.5 bar = 36 psi	Carry out test yourself or with a helper. Use a tyre gauge.
	Adjustment screws  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.

WHEN	WHAT	REMARK
Every 6-8 weeks (depending on distance covered)	Wheel attachments 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.
Every 2 months (depending on distance covered)	Check tyre profile  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.
Every 6 months (depending on fre- quency of use)	Check  - Cleanness.  - General condition.	View < Service > in document < Safety and general handling instructions electronic vehicles >.  Do it yourself or with the aid of a helper.
Manufacturer recommendation:  Every 12 months (depending on frequency of use)	Maintenance jobs  - Vehicle  - Battery charger	To be carried out by the specialist dealer.

#### **Fuses**

# Replacing the fuses

Before replacing fuses, park the electric wheelchair on a level surface and move the selection lever to the drive mode position to prevent the wheelchair from moving. Switch off the operating module.

#### **Attention:**

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

New fuses can be obtained for example at petrol stations.

#### ™ Note:

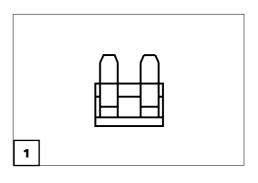
If the safety fuse blows again, take the battery to a specialist dealer for repair.

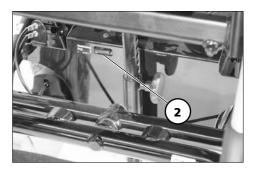
#### **Fuse**

Mains-/battery fuse (1)

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

Please observe the < Technical data >!





# Tyre damage on pneumatic tyres

For repairing tyre damage we recommend the use of a foam cartridge that is available in speciality shops. – Afterwards look up a specialist workshop as soon as possible.

# Lighting

#### ™ Note:

If a turn-signal bulb is defective, the remaining one blinks at double frequency.

# **Headlights**

The headlights should be set in such a way that the light cone is visible on the road. – The lower edge of the light cone should be set at distance of 3 meters to the front of the electric wheelchair.

#### ™ Note:

- The headlights might need to be readjusted after adjustment of the seat angle.
- If needed go to a specialist workshop for adjustment.



## **Headlights**

# Filament bulb:

#### 12 V / 3 W E10



#### ™ Note:

Use a dry cloth to hold the glass body of the new filament bulb.

#### Removal

- Switch off the operating module.
- Pull out the main fuse.
- Undo the securing screw and remove the lens (1).
- Pull the bulb holder (with filament bulb) out of the lens (2).
- Screw the defective filament bulb out of the bulb holder.

- Screw the new filament bulb in the socket (2). – The earth wire lies over the thread of the bulb holder.
- Insert the filament bulb holder (with bulb) into the lens (1).
- Mount the dispersion disc. First insert the top pin, then press in the lens at the bottom and fasten it with the securing screw.







## **Indicator light/front**

Spherical bulb:

### 12 V / P21W BA15s



#### ™ Note:

Use a dry cloth to hold the glass body of the new filament bulb.

#### Removal

- Switch off the operating module.
- Pull out the main fuse.
- Undo the securing screw and remove the lens (1).
- Press the faulty spherical bulb slightly inwards, turn and remove from the socket.

- Insert a new spherical bulb. Push the side pins (bayonet catch) into the frame, exert slight pressure against the spring and turn until the bayonet catch clicks into place (1).
- Mount the dispersion disc. First insert the side pin, then press in the lens and fasten it with the securing screw (2).





### Indicator light/rear

Spherical bulb:

### 12 V / P21W BA15s



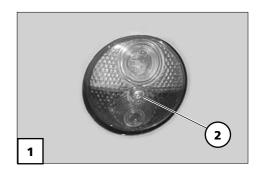
#### ™ Note:

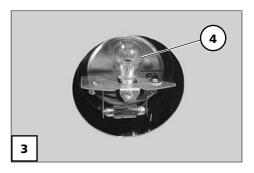
Use a dry cloth to hold the glass body of the new filament bulb.

#### Removal

- Switch off the operating module.
- Pull out the main fuse.
- Undo the securing screw (2) and remove the lens (3).
- Press the defective spherical bulb (4) lightly into the holder against the spring and then turn the bulb and pull it out of the bulb holder.

- Insert a new spherical bulb. Push the side pins (bayonet catch) into the recesses of the bulb holder, press lightly against the spring and then turn the bulb until the bayonet catch clicks into place (4).
- Mount the dispersion disc. Press in the lens and fasten it with the securing screws (1).





## **Back light**

# Festoon bulb:

#### 12 V / C5W S8.5



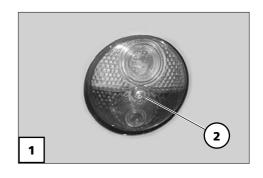
#### ™ Note:

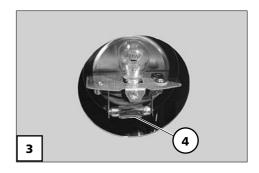
Use a dry cloth to hold the glass body of the new filament bulb.

#### Removal

- Switch off the operating module.
- Pull out the main fuse.
- Undo the securing screw (2) and remove the lens (3).
- Press the defective festoon bulb (4) against the holding pin and then pull it out of the holder.

- Insert the new festoon bulb (4). –
   Press one tip into the hole in the holding pin and then press the other tip into the hole of the other holding pin (4).
- Mount the dispersion disc. Press in the lens and fasten it with the securing screws (1).





# Information for the specialist dealer

A service manual containing a check list for the annual inspection is available on request.

The functional tests necessary for the inspection are listed in the check list.

They are a guide for the performance of the inspection work.

#### ™ Note:

It does not outline the actual scope of the necessary work which can only be ascertained by an inspection of the vehicle.

After the successful completion of an annual inspection the inspection certificate should be recorded in the operating manual.

A template for additional inspection certificates can be copied from the operating manual when needed. It then has to be added to the operating manual.

# Programming the driving behaviour

The driving behaviour of the electric wheelchair can be adjusted through the programming device.

Therefore observe the respective < Service manual >.

The driving features of the electric wheelchair should be adjusted to the individual requirements and the learning process of the respective user at regular intervals.

I'm The programming must be specially tailored to the user. The capacity of reaction, the constitution as well as physical and psychical abilities are to be considered. A talk with the doctor or therapist can be very helpful.

#### **Attention:**

- Any change to the manufacturer set programming may result in an increased danger of accidents.
- Possible danger of tilting in curves.

## **TECHNICAL DATA**

# **Kilometric performance**

Kilometric performance 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 nominal values given by us are realistic under the following conditions:

- Ambient temperature of 20 °C.
- 100 % rated drive battery capacity as per the DIN standard.
- new condition of the drive batteries with more than 5 charging cycles.
- Nominal load of 75 kg.
- Without repeated acceleration.
- Level, firm driving surface.

The kilometric performance is greatly reduced by:

- frequent uphill driving,
- poor drive battery charge condition,
- low ambient temperature (e.g. in winter),
- frequent starting and stopping (e.g. in town traffic),
- aged, sulphated drive batteries,
- frequently necessary steering manoeuvres,
- reduced driving speed (especially at walking speed).

In practical use, the kilometric performance 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!

# **Fuses**

Underneath the seat plate in front of the drive batteries Hereto observe chapter < Fuses >.



Mains-/battery fuse
VR2: 60 A
CAN-Bus: 80 A

# Lighting

4	Headlight: 12 V / 3 W E10
<b>-</b>	Rear light: 12 V / C 5 W S8.5
<u>(1)</u>	Rear indicator: 12 V / P 21 W BA15s
<b>(</b> 1)	Front indicator: 12 V / P 21 W BA15s

# **TECHNICAL DATA**

# **Model 9.906**

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

Dimensional tolerance  $\pm$  1,5 cm,  $\pm$  2°.

Short form of wheelchair dimensions:

SH = Seat height

SW = Seat width

SD = Seat depth

BH = Back support height

Model:	electric wheelchair <b>9.906</b>
Type plate:a	at the front right on the crossbrace
Class of use as per DIN EN 12184:	
Electrical system:	
Drive control 6 / 10 km/h:	
Engine output:220 Wat	
Main fuse (VR2):	
Main fuse (CAN-Bus): Lighting:	
Lighting.	12 V
Dimensions:	
Length (incl. footplates):	
Length of the Junior version (incl. footplates)	
Width (min. / max.):	
Height (with adjustable ErgoSeat back supports) (SH 48)	rt):940 mm (SH 45), 980 mm
Height (with adjustable ErgoSeat back suppo	rt): 1000 mm (SH 50)
Back support height sliding back:	
Back support height ErgoSeat:	55 cm
Width of back support ErgoSeat:	43 / 48 cm
Seat height (SH) with 4° seat angle:	
Seat cover (seat plate):	
ErgoSeat-seat cushion:	51 / 54 / 56 cm

Seat width (SW) Model 9.906: Standard (stepless adjustment over the arm support):
Seat depth (SD) Model 9.906: adjustable through assembly in 3.5 cm steps:
Seat depth 30 to 37 cm only with user weight up to 100 kg
Arm support height from seat: Seat plate with cushion 6 cm (steplessly adjustable)
Back support to front edge of arm support:
Leg support angle:110° to 180°
Length of lower shank: Code 93 (Seat plate incl. cushion 6 cm)
Seat angle mech.(in sev.steps+ possibilities adjustable):
on SH 45 (seat bracket 1st hole from top) 1st to 10th hole:
on SH 48 (seat bracket 3rd hole from top) 3rd to 10th hole:2° 1), 0° 1), 3° 1), 5°, 7°, 9°, 11°, 13°, 15°
on SH 50 (seat bracket 4th hole from top) 4th to 10th hole:3° ¹¹, 0° ¹¹, 2° ¹¹, 5°, 7°, 9°, 12°
<sup>1)</sup> only on min. entry width
<u>Seat camber, electric</u> depending on seat height and use of actuator extension adj. sector 15°:0 to 22°
Chassis:
Drive wheel (pneumatic tyres, max. 2.5 bar): ø 345 mm (14" x 3" 3.00-8)
Steering wheel (pneumatic tyres, max. 2.5 bar):190 x 50 mm (8" x 2" 200 x 50) Steering wheel (pneumatic tyres, max. 2.5 bar): 210 x 60 mm (9" 280/2.60-4) Steering wheel (pneumatic tyres, max. 2.5 bar):260 x 85 mm (10" x 3" 3.00-4)

Transport dimensions:	
Length (without leg supports):Width (without arm supports):	
Height (without arm supports):SH45: 640 / SH48: 670 (Back support upholstery removed, back support folded onto s	0 / SH50: 690 mm
Climatic data:	
Ambient temperature:	
Storage temperature with drive batteries:	
Storage temperature without drive batteries:	40 °C to +65° C
Drive batteries:	
Sealed drive batteries: 2 x 12 V 43 Ah (5	
Sealed drive batteries:2 x 12 V 51 Ah (5	
Sealed drive batteries:2 x 12 V 63 Ah (5	
Max. battery dimensions (LxWxH):	37.5 x 28 x 20 cm
Range (see Kilometric performance):	
Sealed drive batteries 56 Ah (20 h) on 6 km/h / 10 km/h:	approx. 40 km
Battery charger:	
Charging current (depending on battery capacity [Ah]):	max. 8 A
Performance (see Kilometric performance):	
Max. forward top speed: ap Obstacle crossing upwards	prox. 6 / 10 km/h
(steering wheel directly before the step):	approx. 40 mm
Obstacle crossing upwards (with 0.5 m start-up distance):	
Obstacle crossing upwards (with step climber):	
Obstacle crossing downwards:	
Ground clearance frame/ drive unit:min. turning radius:	
min. turning area:	
Max. permissible rising gradient:	• •
Max. permissible falling gradient:	
NA	

# Weights (basic equipment):

Max. permissible total weight (standard):	130 kg 170 kg 140 kg
Empty weight with sealed drive batteries: 2 x 50 Ah (20 h) à 15 kg:	ca. 109.9 kg
Empty weight without drive batteries:ap	oprox. 66 kg
All weight indications are valid for the basic equipment without justments	t electric ad-
Arm support Code 4438 (pair)	3.0 kg 4.5 kg 1.6 kg
Weight of the heaviest single component:	45 ka

# 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
2. 1.	Switching to push mode with the selection lever right.
	Push mode
	Push only on level surfaces.
	Indication for charging socket
ISO 7176-19	Attachment possibility of the transport safety.
	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 loads



Max. permissible rising gradient



Max. permissible falling gradient

max. ... km/h Max. permitted final speed



The product is licensed as a seat inside a handicapped transport vehicle (HTV)



The product is **not** licensed as a seat inside a handicapped transport vehicle (HTV).

# **FAULT CORRECTION**

Fault	Cause	Remedy
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 indicator blinks after the switchon.	Power motors are switched to push mode.	Move the selection lever for the drive motors into the drive mode position and make sure it clicks into place.
	Plug connection at one of the drives without contact.	Check the plug connections.
	Malfunction in the electronics.	Have the fault corrected by a specialist workshop. (Push mode) Selection lever in driving mode position.
	Not listed faults.	View < Fault diagnosis > in the operating manual for the operating module.
Lighting not active.	Filament bulb defective.	Replace defective fila- ment bulb.
	Lighting fuse or drive electronics defective.	Let it be repaired or replaced by a specialist workshop.

# INSPECTION CERTIFICATE

INSPECTION CERTIFICATE Vehicle data:	Recommended safety inspection 1st year (at least every 12 months)
	Stamp of specialist dealer:
Model:	
Delivery note no.:	Signature:
	Place, date:
Serial-no. (SN):	Next safety inspection in 12 months
	Date:
Recommended safety inspection 2nd year (at least every 12 months)	Recommended safety inspection 3rd year (at least every 12 months)
Stamp of specialist dealer:	Stamp of specialist dealer:
Signature:	Signature:
Place, date:	Place, date:
Next safety inspection in 12 months	Next safety inspection in 12 months
Date:	Date:
Recommended safety inspection 4th year (at least every 12 months)	Recommended safety inspection 5th year (at least every 12 months)
Stamp of specialist dealer:	Stamp of specialist dealer:
Signature:	Signature:
Place, date:	Place, date:
Next safety inspection in 12 months	Next safety inspection in 12 months
Date:	Date:

# WARRANTY / GUARAN-TEE

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

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 specialist dealers as well as maintenance and inspections in regular intervals.

Guarantee 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 user or owner.

We reserve the right to make technical improvements.

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

# **WARRANTEE / GUARANTEE SECTION**

Delivery note no.:

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

Model designation:	Delivery note no.:
SN (view type plate):	Date of delivery:
Stamp of the specialist dealer:	
pection certificate for	transfer

Next safety inspection in 12 months

Date:





☐ Your specialist dealer:

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# MEYRA® ORTOPEDIA

We move people.

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