

en

Electric wheelchair

Model 1.595 – 603 Vertical Junior

Model 1.595 – 604 Vertical Senior

Operating manual



CE

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Contents

Introduction	5
Indications	6
Specifications	6
Acceptance	6
Use	6
Adjustment	7
Life span	7
Overview	8
Model: 1.595 – 603 / 1.595 – 604	8
Quick guide	9
Handling the electric wheelchair	10
Securing the electric wheelchair	10
Functional checks	10
Driving	10
Speed limitation	10
Brakes	10
Service brake	10
Braking the wheelchair	10
Parking brake	10
Locking the brakes	11
Releasing the brakes	11
Drive-/push mode	12
Selecting the push mode	12
Selecting the motor mode	12
Selecting the operation	13
Pre-operation checks	15
Battery charging procedure	15
Positioning the operating module	16
Function description	16
Adjusting the distance to the padded arm support	16
Removing the operating module	16
Inserting the operating module	16
Swivelling the operating module	17

Arm supports	18
Angle of the arm supports	18
Swivelling up the arm supports	19
Swivelling down the arm supports	19
Back support	20
Head support	20
Adjustment of the head support	20
Removing and height adjusting the head support	20
Adjusting the head support during handicapped transport inside a motor vehicle	20
Holder for chin operation	20
Leg support	21
Folding up the leg support	21
Knee cushions	22
Removing/attaching the knee cushions	22
Side cushions	23
Adjusting the side cushions	23
Removing the side cushions	23
Removing / attaching the side cushion pad	23
Torso supports	24
Splay wedge	24
Removing/attaching the splay wedge	24
Seat	25
Seat inclination (camber)	25
Special safety information for raising the seat, seat height adjustment, standing and lying functions	25
Seat height adjustment	26
Raising the seat	26
Standing function	27
Lying function	28
Adjusting the seat depth	29
Chest strap	29
Fastening the chest strap	29
Opening the chest strap	29

Shoulder strap	30
Fastening the shoulder strap	30
Adjustment of belt length	30
Emergency switch	31
Raising the seat	31
Lowering the seat	31
Loading and transportation	32
Loading	32
Transport of people inside a motor vehicle	32
Transport security	33
Maintenance	33
Maintenance	33
Maintenance schedule	34
Fuses	36
Replacing the fuses	36
Tyre damage on pneumatic tyres	36
Lighting	37
Adjusting the headlights	37
Fault correction	38
Technical data	39
Kilometric performance	39
Hill climbing ability	39
Data according to ISO for model 1.595–603	40
Data according to ISO for model 1.595–604	41
Further technical data	42
Meaning of the labels on the electric wheelchair	44
Meaning of the symbols on the type plate	45
Inspection certificate	46
Warranty / Guarantee	47
Notes	48
Warrantee / Guarantee section	51
Inspection certificate for transfer	51

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.

Important information

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 < *Electric 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.com > .

 Contact your specialist dealer when required.

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

You can find additional information about our products and general information about us on our website:

< www.meyra.com > .

Information about product safety and possible recalls of our products can be found in the < *Infozentrum* > on our website:

< www.meyra.com > .

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 electric vehicle. It was developed to extend the mobility of persons with health-related or age-related 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.
- ☞ 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 adjustment 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 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.

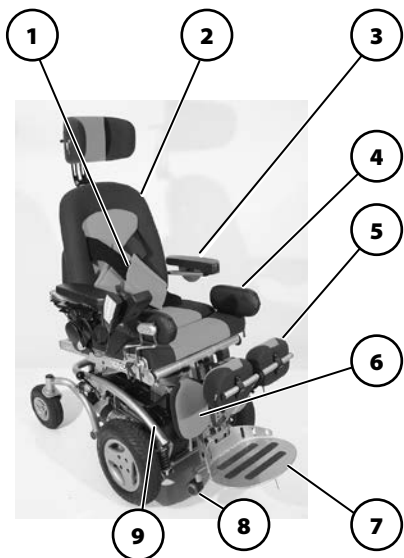
The implementation of spare parts can prolong the life span of the product. As a rule spare parts are available up to 5 years after production is discontinued.

-  The indicated lifespan does not constitute additional guarantee.

OVERVIEW

Model: 1.595 – 603 / 1.595 – 604

The overview shows the most important components and operating equipment.



Pos. Description

- (1) Chest strap
- (2) Back support upholstery
- (3) Arm support
- (4) Side cushion
- (5) Knee cushion
- (6) Calf pads
- (7) Leg support / Footplate
- (8) Leg support-support castor
- (9) Type plate

- (10) Selection lever drive-/push mode
- (11) Seat unit
- (12) Head support
- (13) Operating module
- (14) Driving wheel
- (15) Steering wheel



Drive mode



Push mode

QUICK GUIDE

Note:

The following quick guide does not replace the reading and observing of the documentation belonging to the electric wheelchair.



Operation of the adjustments through the operating module

With the mode – key, depending on the equipment, the adjustment menus can be selected.

After selection of the menu, by moving the joystick toward the back, *Adjustment from the basic position* can be activated.

After selection of the menu, by moving the joystick toward the front, *Adjustment into the basic position* can be activated.



Locking down the adjustments

If an adjustment menu is selected that is locked, a < *Signal sound* > is heard and you automatically jump into the menu that activated the lock. By movement into the basic position of this adjustment the lock can be released.

The speed is limited to 3 km/h when the seat height adjustment is in the base position or less than 10 mm below or more than 100 mm above the base position.

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. Swivel the selection lever drive/push mode (9) on both sides down into drive mode.
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.

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

Driving

Your specialist dealer carries out the optimisation of the driving characteristics of the electric wheelchair to your personal situation.

The adaptability offers sufficient driving comfort as well as a high operating safety.

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.

Speed limitation

The speed limitation to 3 km/h serves the safety and is activated in the following settings:

- Seat height lower than 10 mm
- Seat height higher than 100 mm
- From the start of the rising function

BRAKES

Service 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 drive-/push mode is set to drive mode on both drives. They disengage automatically when the wheelchair starts off.

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

Locking the brakes

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

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

Attention:

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



Releasing the brakes

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

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

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 accident!



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

1. Switch off the operating module because the pushing will otherwise be made difficult by the electric system.
 - ☞ Therefore observe operation manual < *Operating module* >.
2. Disengage the brakes [1].
 - ☞ Therefore observe chapter *Releasing the brakes* on page 11.

The electric wheelchair can now be pushed.

Selecting the motor mode

1. Activate the brakes [2].
 - ☞ Therefore observe chapter *Locking the brakes* on page 11.
2. Switch the operating module on.
 - ☞ Therefore observe operation manual < *Operating module* >.

The electric wheelchair is now ready for use again.



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.

 **Note:**


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

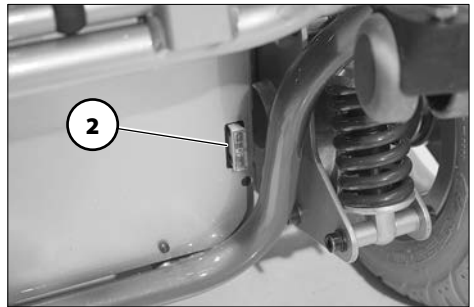
1. Selecting the motor mode

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

 Observe chapter *Locking the brakes* on page 11.

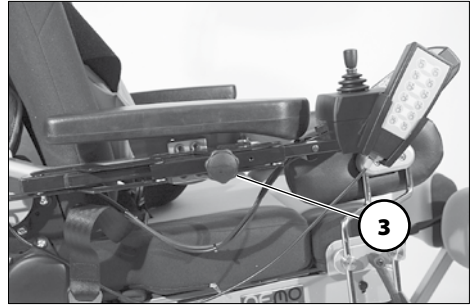
2. Check the correct fit of the battery/ mains fuse

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



3. 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.
- ☞ The distance of the operating module to the padded arm supports can be adjusted after loosening the clamping screw (3).



Attention:

! After the adjustment retighten the clamping screw.

- ☞ Therefore also observe chapter *Positioning the operating module* on page 16.

4. Switch the operating module on

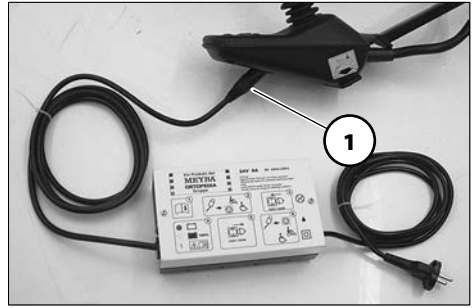
- ☞ Press the On/Off-key (4) on the control panel of the operating module.
- ☞ Therefore observe operation manual *< Operating module >*.



Pre-operation checks

Before starting to drive, the following should be checked:

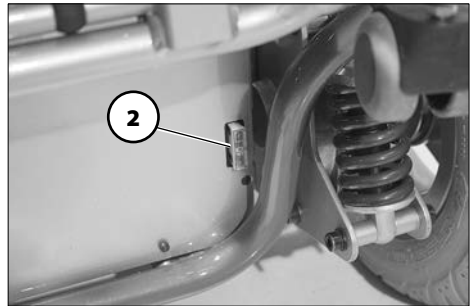
- ☞ the battery charging condition,
 - ☞ the setting of the preselected final speed.
- For this observe the operating manual < *Operating module* >.



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* on page 10.
2. Insert the charger plug into the battery charging socket (1) of the operating module.



Attention:

- ! 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 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 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 module before 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

In order to remove the operating module loosen the clamping screw (1) and disconnect the plugged connection (2) (3).

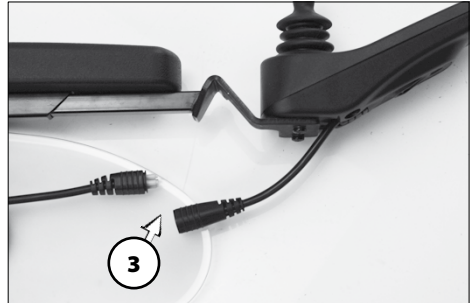
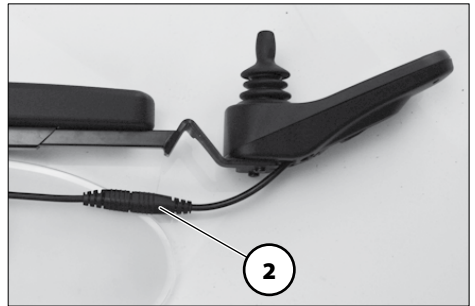
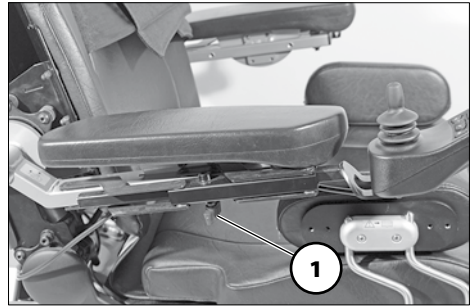
☞ Do not pull on the cable while doing so.

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 [3] and adjust the distance to the padded arm support.

☞ Therefore observe chapter *Adjusting the distance to the padded arm support* on page 16.



Afterwards re-establish the plugged connection (4) (2).

☞ Check the function of the operating module.

Swivelling the operating module

With the swivel away operating module adapter the operating module can be swivelled back to the side [1] 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 [2].

- ☞ 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 the cross brace. – Danger of squashing!



ARM SUPPORTS

The arm supports can be adjusted in height by a specialist dealer to suit the needs of the user.

Attention:

- ! Do not use the arm supports to lift or carry the wheelchair.

Angle of the arm supports

The angle of the arm supports can be adjusted to the desires of the user.

Note:

During the electric adjustment of the back support the arm supports are automatically raised/lowered into a comfortable position of the arm support pads [1].




Swivelling up the arm supports

The arm supports can be swivelled upward when necessary [1].

Pull out the button (2) that locks down the arm support and swivel the arm support up as far as possible.

 **Note:**

Support the arm support slightly with one hand. – This makes it easier to use the locking button of the arm support.

 The button (2) that locks the arm support must visibly lock into place again [3].

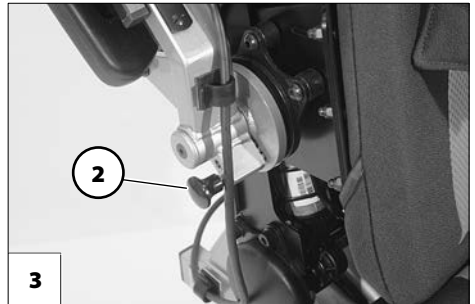
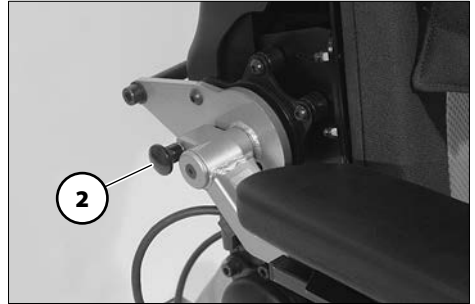


Swivelling down the arm supports

Pull out the button (2) that locks down the arm support and swivel the arm support down as far as possible [4].

 **Note:**

The locking button (2) of the arm support must visibly lock into place.



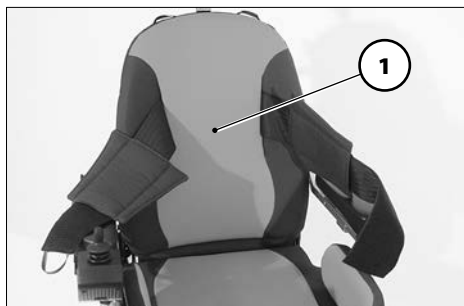
BACK SUPPORT

The angle of the back support (1) can be adjusted through the operating module.

Note:

For adjustment view chapter < *Mode-menu* > in the operating manual < *Operating module* > resp. chapter *Quick guide* on page 9 within this document.

 View chapter *Angle of the arm supports* on page 18.



HEAD SUPPORT

The head support (2) is swivel proof, height and depth adjustable as well as removable.

Adjustment of the head support

After loosening the clamping levers (3) the head support can be adjusted to the desired position.

Afterwards retighten the clamping levers (3).

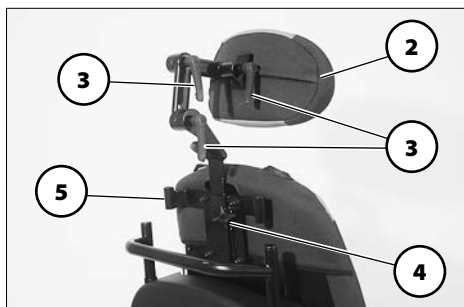
Removing and height adjusting the head support

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

Adjusting the head support during handicapped transport inside a motor vehicle

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

The head support should be adjusted so that you can fit at maximum a flat hand between the rear end of the head and the sup-



port surface. The upper edge of the head support should be adjusted slightly above or at least level with the top of the head.

Holder for chin operation


The holder (5) exists for example in combination with the chin operation.

LEG SUPPORT

The angle of the leg support (1) can be adjusted through the operating module.

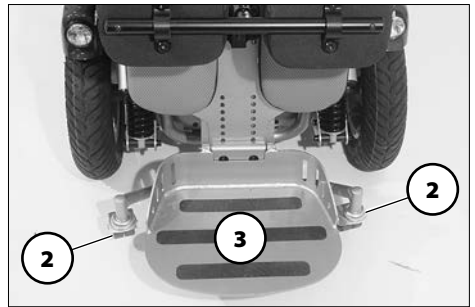
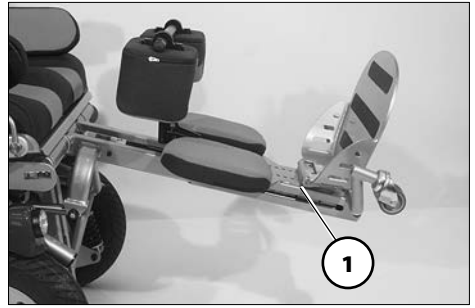
 **Note:**

For adjustment view chapter < *Mode-menu* > in the operating manual < *Operating module* > resp. chapter *Quick guide* on page 9 within this document.

-  For driving outdoors and in order to be able to overcome obstacles, watch for sufficient ground clearance of the front leg support-support castors (2).

Folding up the leg support

To reduce the overall length, e.g. for transport, the footplate (3) can be folded upward.



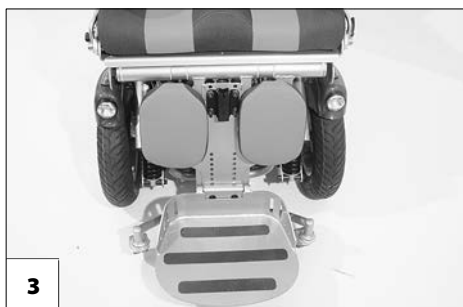
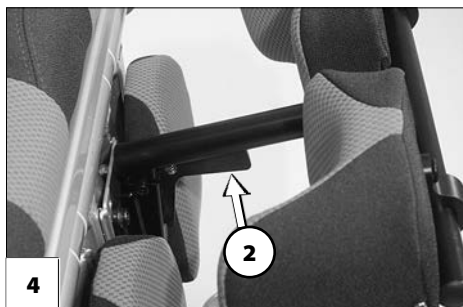
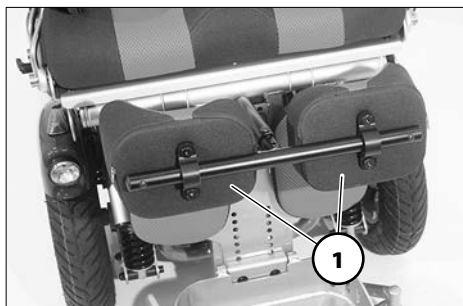
Knee cushions

The knee cushions (1) are removable and can be adjusted in height and depth by your specialist dealer.

Removing/attaching the knee cushions

In order to remove/attach the knee cushions, pull up the locking lever (2) first. Afterwards remove (3) or attach (4) the knee cushions.

- ☞ Check the locking function after placing them and letting go of locking lever.

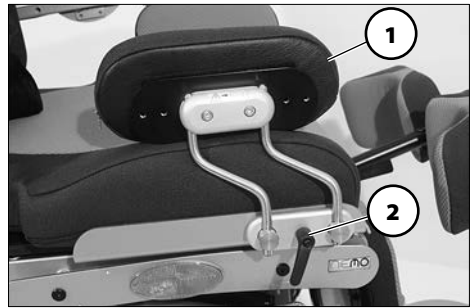


SIDE CUSHIONS

The side cushions (1) are height, seat width and depth adjustable as well as removable.

Adjusting the side cushions

After loosening the clamping lever (2) the respective side cushion can be adjusted to the desired height and position. Afterwards retighten the clamping lever (2).



Removing the side cushions

After loosening the clamping lever (2) the respective side cushion can be removed or inserted.

Afterwards retighten the clamping lever (2).

Removing / attaching the side cushion pad

Loosen the respective velcro strap (3) in order to remove the side cushion pads.

Press the side cushion pad onto the respective carrier plate to reattach them (closing the velcro strap).



TORSO SUPPORTS

The torso supports (1) are continuously height, width and depth adjustable as well as removable by your specialist dealer.

SPLAY WEDGE

The splay wedge (2) can also be mounted retrospectively in a specialist workshop.

Removing/attaching the splay wedge

Loosen the clamping screw (4) for removal (3) and attachment (5).

- Retighten the clamping screw (4) after attaching as well as removing the splay wedge.

Attention:


- ! The splay wedge is to be removed before activating the electrically lowering footboard.



SEAT

Note:

For adjustment view chapter < *Mode-menu* > in the operating manual < *Operating module* > resp. chapter *Quick guide* on page 9 within this document.


-  Observe chapter *Technical data* on page 39.

Seat inclination (camber)

The seat inclination (1) can be adjusted through the operating module.

Special safety information for raising the seat, seat height adjustment, standing and lying functions

Attention:

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

Note:

All following adjustment functions should be practised with an attendant or helper.



Seat height adjustment

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

- 🔊 **Note:**
This continuously increases the seat height by up to 300 mm.
- 🔊 In combination with the additional seat raiser of 150 mm the seat height can now be increased up to 450 mm.
- 🔊 For adjustment view chapter < *Mode-menu* > in the operating manual < *Operating module* > resp. chapter *Quick guide* on page 9 within this document.

Raising the seat

After reaching the maximum seat height, after continuing activation through the operating module, the seat is raised in the back. This enables you to obtain a raised, horizontal sitting position [2].

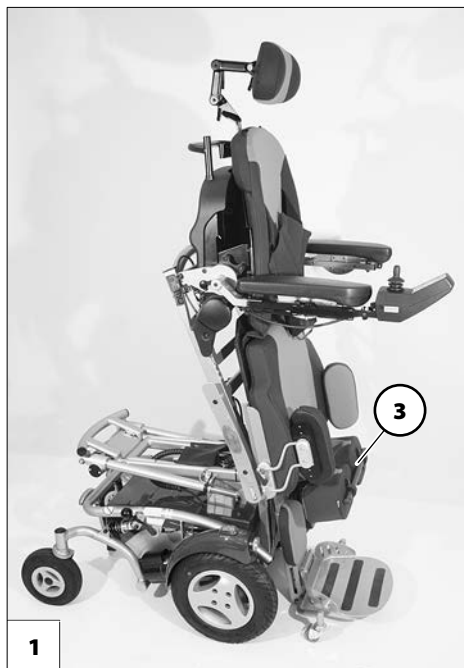
- 🔊 The additional seat raising is 150 mm.



Standing function

The standing position [1] can be adjusted through the operating module.

- 🔔 **Note:**
Rising may only be carried out with the chest strap (2) applied and with correctly adjusted knee cushions (3).
- 🔔 Therefore observe the chapters *Knee cushions* on page 22 and *Chest strap* on page 29.
- 🔔 For adjustment view chapter < *Mode-menu* > in the operating manual < *Operating module* > resp. chapter *Quick guide* on page 9 within this document.





Lying function

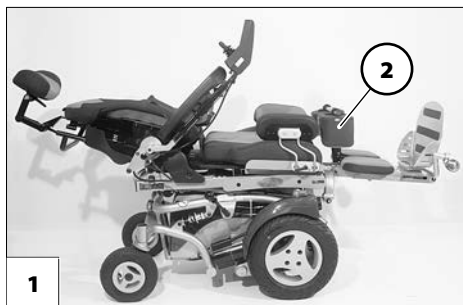
The lying position [1] can be adjusted through the operating module.

 **Note:**

The lying position [1] may only be set with correctly adjusted knee cushions (2) and the chest strap applied (3).

 Therefore observe the chapters *Knee cushions* on page 22 and *Chest strap* on page 29.

 For adjustment view chapter < *Mode-menu* > in the operating manual < *Operating module* > resp. chapter *Quick guide* on page 9 within this document.



Adjusting the seat depth

The seat depth can be adjusted by repositioning the back support [1].

Attention:

- ! A retrospective repositioning of the back support is only to be carried out in a specialist workshop!



CHEST STRAP

The chest strap (2) prevents falling forward.

Fastening the chest strap

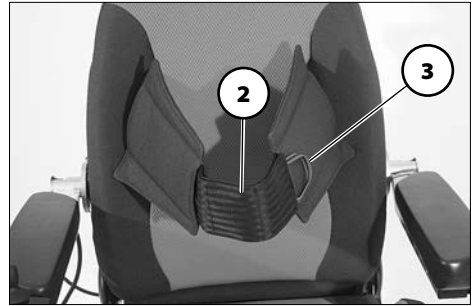
Pull both straps forward and place close to the body. To close the velcro fastener, place both straps on top of each other and press.

Attention:

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

Note:

The chest strap should not be pulled too tight.



Opening the chest strap

To open the chest strap pull the loop (3) of the velcro fastener forward (4).



SHOULDER STRAP

The shoulder strap (1) serves for additional fixation of a person sitting the 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.

Attention:

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

Fastening the shoulder strap

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

Attention:

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

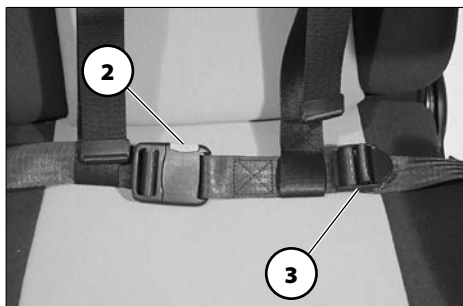
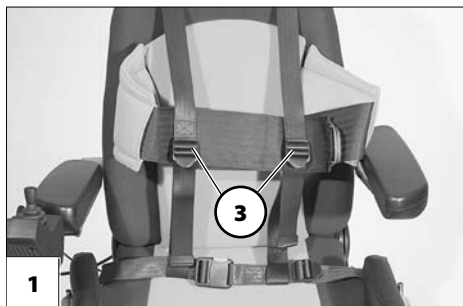
To open the shoulder strap the red locking button (2) is pressed down.

Adjustment of belt length

Note:

The shoulder strap should not be pulled too tight.

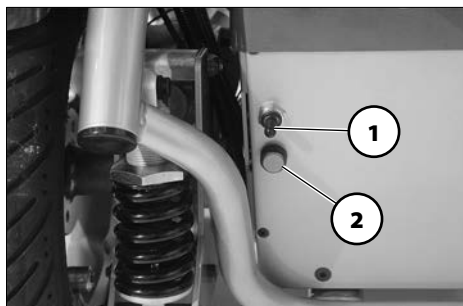
To adjust the length hold the respective strap buckle (3) at a right angle to the strap and position it accordingly.



EMERGENCY SWITCH

In case of an electric failure the seat can be raised through the emergency switch (1)+(2), in order to be able to reach the controller and batteries.

- ☞ The operation is only to be carried out by service personal in case of emergencies.
- ☞ After activation of the emergency switch the seat must be raised and lowered completely through the operating module. – Only this warrants a further use of the seat height adjustment.



Raising the seat

To raise the seat press the lever (1) up first, then activate the button (2) until the desired height is reached.

- ☞ After releasing the button (2) the seat remains in the same height.

Lowering the seat

To lower the seat press the lever (1) down first, then activate the button (2) until the desired height is reached.

- ☞ After releasing the button (2) the seat remains in the same height.

LOADING AND TRANSPORTATION

- ☞ Do not use the back support, leg supports, arm supports or restraints 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 < *Electric 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:**

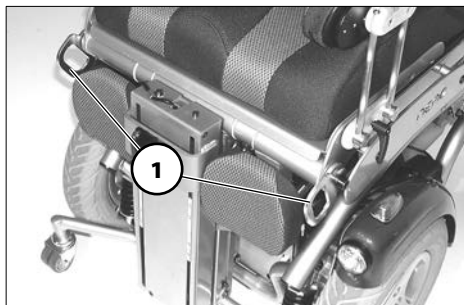
Electric wheelchairs that are not suited for use as a seat for transport in a motor vehicle are marked with an additional label. – For this observe chapter *Meaning of the labels on the electric wheelchair* on page 44.

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

Transport security

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

- ✎ The procedure for securing the wheelchair can be read in the document < *Safety and general handling instructions electric vehicles* > chapter < *Transport in motor vehicles or with conveyors* >.



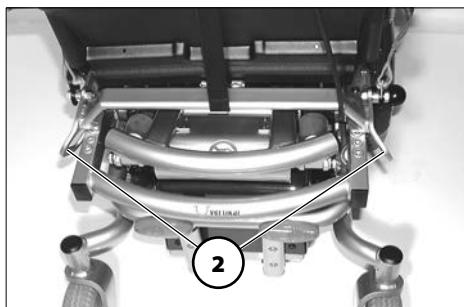
MAINTENANCE

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

Maintenance

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

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



Maintenance schedule

WHEN	WHAT	REMARK
Before starting out	General Test for faultless operation.	Carry out test yourself or with a helper.
	Checking the magnetic brake 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	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:  View <i>Technical data</i> on page 39.	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.
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.

WHEN	WHAT	REMARK
<p>Every 2 months (depending on distance covered)</p>	<p>Check tyre profile Minimum tread = 1 mm</p>	<p>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.</p>
<p>Every 6 months (depending on frequency of use)</p>	<p>Check</p> <ul style="list-style-type: none"> - Cleanness. - General condition. 	<p>View < <i>Service</i> > in document < <i>Safety and general handling instructions electric vehicles</i> >. Do it yourself or with the aid of a helper.</p>
<p>Manufacturer recommendation: Every 12 months (depending on frequency of use)</p>	<p>Maintenance jobs</p> <ul style="list-style-type: none"> - Vehicle - Battery charger 	<p>To be carried out by the specialist dealer.</p>

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 are available at gas stations or at specialist dealers.

Note:

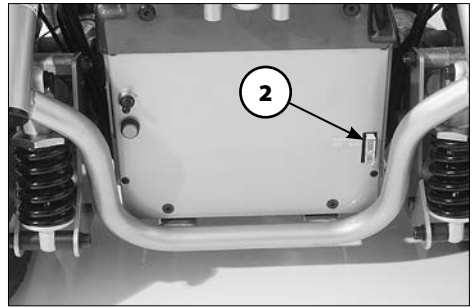
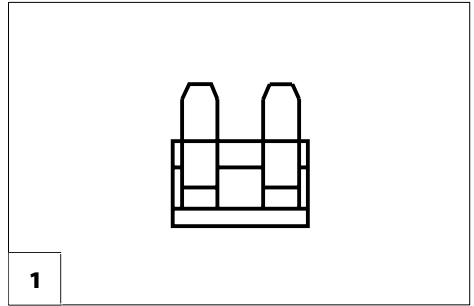
If the safety fuse blows again, take the battery to a specialist dealer for repair.

Fuse

Mains-/battery fuse (1)

The blade fuse for the battery current is fit into the fuse holder (2).

- 📖 Observe chapter *Technical data* on page 39!



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

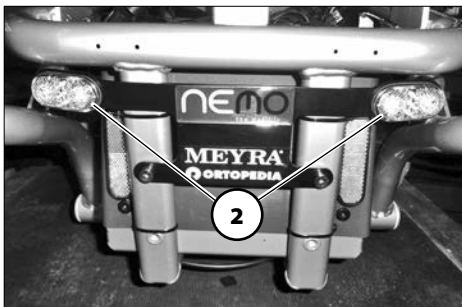
The optional lighting [1]+(2) is equipped with longlife LED-technology.

Note:

Immediately have a defective LED-lamp repaired by a specialist workshop.

Adjusting the 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 wheelchair.



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 gauge blinks after the switch-on.	One or both of the drive motors are switched to push mode.	Move the selection lever for the drive/push mode into the drive mode position on both sides.
	Plug connection at one of the drives without contact.	Check the plug connections.
	Malfunction in the electronics.	Have it repaired by the specialist workshop. (Push mode) Selection lever in driving mode position.
	Not listed faults.	View < <i>error diagnostics</i> > in the operating manual for the operating module.
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.

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 27 °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,
- insufficient charging condition of the drive batteries,
- low ambient temperature (e.g. in winter)
- frequent acceleration and braking (e.g. in city 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.

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

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

Short form of wheelchair dimensions:

SH = Seat height

SW = Seat width

SD = Seat depth

BH = Back support height

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!

Data according to ISO for model 1.595–603

	min	max
Overall length with leg support	1200 mm	1200 mm
Overall width	650 mm	650 mm
Overall dimensions	185 kg	295 kg
User weight (incl. additional load)	– kg	100 kg
Dimension of the heaviest part (removable)	7 kg	– kg
Actual seat depth	350 mm	470 mm
Actual seat width	200 mm	360 mm
Folding length	– mm	– mm
Folding width	– mm	– mm
Folding height	– mm	– mm
Seat surface height at front edge (without cushion)	560 mm	1010 mm
Seat angle	0°	25°
Back support angle	90°	170°
Back support belt height	580 mm	580 mm
Foot support to seat (lower shank length)	290 mm	450 mm
Static stability downhill	7°	7°
Static stability uphill	7°	7°
Static stability lateral	7°	7°
Dynamic stability uphill	7°	7°
Angle leg support - seat surface	93°	180°
Arm support height from seat surface	170 mm	200 mm
Back support to front edge of arm support	300 mm	– mm
Obstacle height	0 mm	70 mm
Minimal turning radius	700 mm	–
Energy consumption	30 km	35 km
Max. forward top speed	6 km/h	10 km/h
Minimum breaking distance from top speed	1000 mm	2100 mm

Data according to ISO for model 1.595–604

	min	max
Overall length with leg support	1200 mm	1200 mm
Overall width	650 mm	650 mm
Overall dimensions	185 kg	295 kg
User weight (incl. additional load)	– kg	100 kg
Dimension of the heaviest part (removable)	7 kg	– kg
Actual seat depth	430 mm	550 mm
Actual seat width	320 mm	540 mm
Folding length	– mm	– mm
Folding width	– mm	– mm
Folding height	– mm	– mm
Seat surface height at front edge (without cushion)	560 mm	1010 mm
Seat angle	0°	25°
Back support angle	90°	170°
Back support belt height	580 mm	580 mm
Foot support to seat (lower shank length)	380 mm	530 mm
Static stability downhill	7°	7°
Static stability uphill	7°	7°
Static stability lateral	7°	7°
Dynamic stability uphill	7°	7°
Angle leg support - seat surface	93°	180°
Arm support height from seat surface	200 mm	235 mm
Back support to front edge of arm support	370 mm	– mm
Obstacle height	0 mm	70 mm
Minimal turning radius	700 mm	–
Energy consumption	30 km	35 km
Max. forward top speed	6 km/h	10 km/h
Minimum breaking distance from top speed	1000 mm	2100 mm

Further technical data

	min	max
Sound level	– dB(A)	70 dB(A)
Turning area	1200 mm	– mm
Additional load	– kg	10 kg
Drive controller	–	24 V / 120 A
Engine output (6 / 10 km/h)	300 W	350 W
Main fuse	– A	80 A
Permitted axle load front	– kg	240 kg
Permitted axle load rear	– kg	180 kg
Empty weight (with drive batteries)	185 kg	– kg
Empty weight (without drive batteries)	142 kg	– kg
Empty weight (without drive batteries, head support, knee cushions)	180 kg	– kg
Overall height (without head support)	1130 mm	– mm
Overall length (footplate up-folded)	950 mm	– mm
Seat height	560 mm	– mm
Height with actuator	860 mm	1010 mm
<u>Transport dimensions</u>		
Length (footplate up-folded)	– mm	950 mm
Height	– mm	1050 mm
<hr/>		
Lighting (option)	LED-technology 24 V	
<hr/>		
<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	

Steering wheel

230 x 70 mm (230/70 – 12")

pneumatic tyres, max. 2.5 bar

Driving wheel

365 x 84 mm (3.00 – 8")

pneumatic tyres, max. 2.5 bar

Drive batteries

2 x 12 V 63 Ah (5 h) / 73 Ah (20 h)

sealed

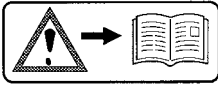
Max. battery dimensions (LxWxH)

260 x 171 x 209 mm

Battery charger

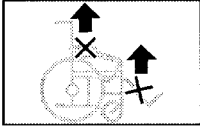
24 V / 8 A

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.



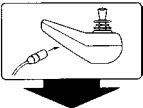
Drive mode



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



Operation in moving transport vehicles. – Switch off or switch to driving program 3.

Meaning of the symbols on the type plate



Manufacturer



Order number



Serial number



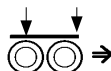
Production date (Year – Calendar week)



Permitted user weight



max. permissible total weight



Permitted axle weights



Max. permissible rising gradient



Max. permissible falling gradient

max. ... km/h

Permitted maximum speed



The product is approved as a seat within a motor vehicle



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

INSPECTION CERTIFICATE

Vehicle data:

Model:

Delivery note no.:

Serial-no.(SN):

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

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

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

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

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

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

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

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

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

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

WARRANTY / GUARANTEE

We accept legal liability for this product within the scope of or general terms and conditions and warranty and in certain cases other verbal resp. agreed upon guarantees. For warranty and guarantee demands please contact your specialist dealer with following Warranty/Guarantee section and the there included information on model description, delivery note number with delivery date and serial number (SN).

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

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

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

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

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

Attention:

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

Note:

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

We reserve the right to make technical improvements.



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

NOTES

Warranty / Guarantee section

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

Warranty / Guarantee

Model designation:

Delivery note no.:

SN (view type plate):

Date of delivery:

Stamp of the specialist dealer:

Inspection certificate for transfer

Vehicle data:

Serial-no.(SN):

Model:

Delivery note no.:

Stamp of specialist dealer:

Signature: _____

Place, date: _____

Next safety inspection in 12 months

Date: _____

Your specialist dealer

MEYRA GmbH



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