



EN

OPERATING MANUAL

ACTIVE WHEELCHAIR

Model 1.160

MEYRA®
We move people.

Contents

Introduction	4
Indications	5
Acceptance	5
Specifications	5
Use	6
Adjustment	6
Life span	6
Overview	7
Brake	8
Pressure brake - user	8
Locking the brakes.....	8
Releasing the brakes.....	8
Calf belt.....	9
Removing the calf belt	9
Attaching the calf belt.....	9
Footplate	9
Arm supports	10
Swivelling up the arm support.....	10
Inserting the arm support	10
Back support	11
Folding over the back support.....	11
Folding up the back support.....	11
Fitting the back belt	12
Wheels	13
Tyre damage on pneumatic tyres.....	13
Drive wheels.....	13
Quick release axle	13
Support castors	14
Stick-in support castors	14
Removing/inserting the support castors	14
Swing-out support wheels.....	14
Swivelling the support castors	14

Manoeuvre rollers	15
Shunting castors without brakes	15
Retaining strap	16
Transport	16
Carrying the wheelchair	16
Transport security	17
Maintenance	17
Maintenance	17
Maintenance schedule	18
Technical data	21
Meaning of the labels on the wheelchair	24
Meaning of the symbols on the type plate	25
Inspection certificate	26
Notes	27
Warranty / Guarantee	30
Inspection certificate for transfer	31

INTRODUCTION

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

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


Like any other vehicle, a wheelchair is a technical aid. It 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 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 individual wheelchair.

Attention:

 Read and observe the following


- documentation belonging to the wheelchair before first operation:

- this operating manual,
- Safety and general handling instructions < *Mechanical and muscle powered wheelchairs* >.

Note:

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

For users with visual impairments the PDF-files of the above mentioned documents can be accessed on our website < www.meyra-ortopedia.com >.

 Contact your specialist dealer when required.

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

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.
- ☞ The ability to use the wheelchair with own personal strength must be given.
- ☞ Provision with this type of wheelchair is to be considered when the adaptation and adjustment possibilities of standard and light weight wheelchairs is not sufficient.

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.

SPECIFICATIONS

The wheelchair was developed for adults and adolescents. Three frames are available:

- short,
- medium,
- long.

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

USE

The wheelchair can universally be implemented on level, hard surfaces and is therefore an allround-wheelchair:

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

The wheelchair offers manifold adjustment possibilities to individual vital statistics.

Attention:

- ! Always have adaptation and adjustment work carried out by a specialist dealer.

ADJUSTMENT

The specialist workshop will hand out the 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 4 years for this product, as far as the product is applied for its designated purpose and all maintenance and service guidelines.

The life span of your product depends upon the frequency of use, the application environment and care.

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

- ☞ The indicated lifespan does not constitute additional guarantee.

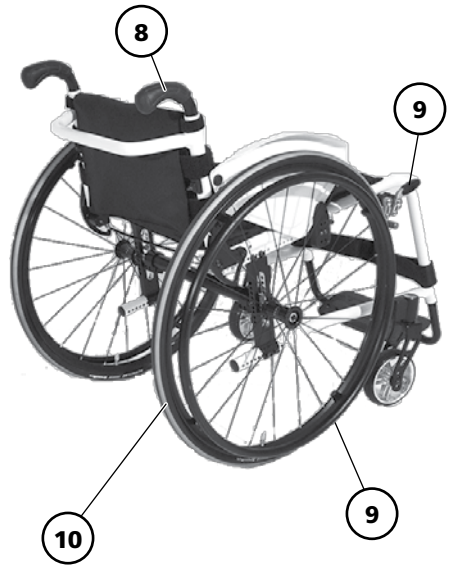
OVERVIEW

The overview shows the most important components of the wheelchair.



Pos. Description

- 1 Back support
- 2 Arm support / clothes guard
- 3 Seat belt / seat cushion
- 4 Calf strap
- 5 Footplate
- 6 Steering wheel



Pos. Description

- 8 Push handle
- 9 Pressure brake
- 10 Handrims
- 11 Drive wheel

BRAKE


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

Depending on the version, the wheelchair can be equipped with pressure brakes (2) or with drum brakes (3).

Note:

Therefore observe the *Maintenance schedule* on page 18 as well as safety and general handling instructions < *Mechanical and muscle powered wheelchairs* > chapters < *General safety information* > and < *Brakes* >.

Attention:

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

Pressure brake - user

Locking the brakes

To secure the wheelchair against any unintentional rolling, press both brake levers down all the way (4).

Note:

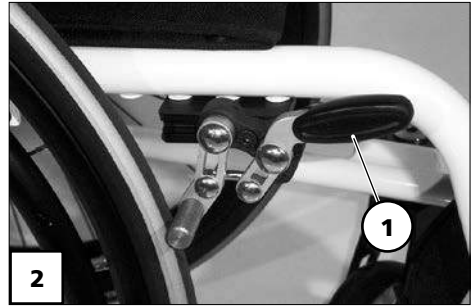
It should not be possible to push the wheelchair forward when both brakes are locked.

Releasing the brakes

Pull both brake levers completely upward (1).

Operating brake

The wheelchair is braked down with help of the handrims.



Note:

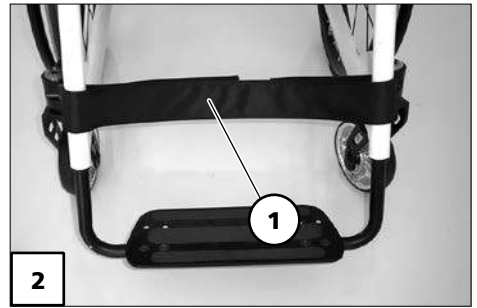
If needed use suitable gloves in order to brake down the wheelchair.

Calf belt

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

Attention:

- ! Never drive without calf belt (except when shuffling)! – Danger of accident!

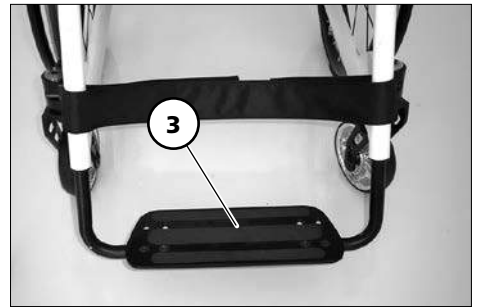


Removing the calf belt

Removal of the calf belt is achieved by opening the velcro strap.

Attaching the calf belt

For attaching the calf belt is guided around the front frame tube [2] and adjusted to the corresponding length with the velcro fastener.



FOOTPLATE

A footplate (3) is available that can be adjusted in height, angle and depth to the individual requirements.

ARM SUPPORTS

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

Attention:

- ! No not grab between the frame and arm support. – Danger of jamming!
- Do not lift the wheelchair using the arm supports.
- The wheelchair should only be used with the arm supports assembled!

Swivelling up the arm support

- Pull the arm support with a little forward pressure out of the bracket (clamping mechanism) and swivel it upwards [2].

Attention:

- ! Removed side elements must be carefully replaced before the wheelchair is used again!

Inserting the arm support

- If necessary clamp the arm support with a little pressure as far as possible into the arm support bracket [3].

Note:

Check the correct clamping of the arm supports.



BACK SUPPORT

Folding over the back support

For storage or transport the back support (1) can be folded over and locked into place [4].

- For this swivel the arm supports in first [2].
- Then by pulling or pressing the cord [3] unlock the back support and fold it completely onto the seat [4].

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

Folding up the back support

- For raising the back support, first pull or press the cord in the middle and then pull the back support back as far as possible [2]. – The pressure bolt must audibly lock into place.

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

☞ **Note:**

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

- Swivel the arm supports outward and insert them again [5].

☞ **Note:**

Therefore observe chapter *Inserting the arm support* on page 10.



Fitting the back belt

The tension of the back support is adjustable.

- Pull off the flap of the back support and fold it to the front [1].
- Open the Velcro fastener of the belt that you wish to adjust and close it again after adjustment.

Attention:

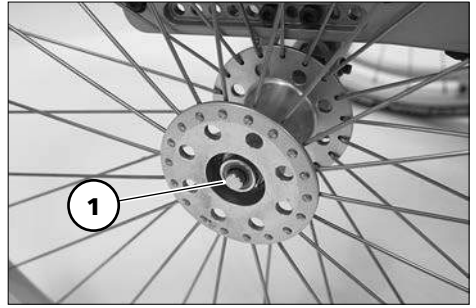
- ! The overlapping of the Velcro fastener has to be at least 10 cm!
- Pull the back belt to the back again and attach the velcro strap [2].



WHEELS

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.



Drive wheels

The drive wheels are on a full quick release axle (1).

- ☞ No person may be seated in the wheelchair during assembly or removal. The wheelchair must stand on a level and firm surface. Before starting the disassembly of a wheel, support the frame to prevent the wheelchair from tipping over and secure it to prevent an unwanted movement or tipping over.

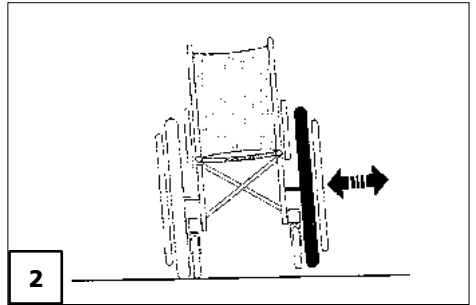
☞ Note:

- ☞ After each assembly the locking device is to be checked with side-ward pulling/pressing on the drive wheels!
- ☞ If the drive wheels has too much sideward lag or the quick release axle does not engage, contact your specialist dealer immediately for repair.

Quick release axle

The drive wheels can be removed and reassembled without any tools.

- First press the locking knob (1) of the quick release axle in the center of the hub.



- Afterwards remove or attach the drive wheel [2].

Attention:

- ! After inserting the drive wheel the locking knob (1) must stick a couple of millimetres out of the wheel nut.
- ☞ The locking bolt is to be kept clean. A functional fault may occur in the case of contamination due to sand or earth or in the event of freezing of moist cold air.

SUPPORT CASTORS

Stick-in support castors

Removing/inserting the support castors

- Depress the corresponding spring button (1) in order to remove/insert a support castor.
- ☞ The respective spring button (1) must visibly and audibly engage.



Swing-out support wheels

The support castors (2) can be swivelled inward underneath the seat [4].

- ☞ Swivelling of the support castors can be done by an accompanying person or aid.
- Free foot space for the accompanying person with the support castors swung inwards.

Swivelling the support castors

- ☞ **Note:**
This function can be performed with the foot.

Press the support castors down out of the lock then swivel them under the seat [4], or toward the back [3] until the respective lock engages automatically.

MANOEUVRE ROLLERS

For driving through tight passages (e.g. in trains) the wheelchair can be pushed over the shunting castors [1] without drive wheels by an attendant.

Shunting castors without brakes

Attention:

- ! The wheelchair may only be parked under the supervision of an attendant! – No braking function possible!
 - Danger of accidents through uncontrolled rolling motions!

Note:

When using the shunting castors the attendant is responsible for the safety of the person sitting in the wheelchair.

Height adjustment of the shunting castors

After changing the seat height as well as after changing the size of the wheels, the shunting castors may have to be adjusted in height again.

- 👉 The correct height setting is to be checked by the specialist dealer and readjusted if necessary.



RETAINING STRAP

The retaining strap [1] is screwed from the back onto the respective back support tube.

 **Note:**

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

Attention:


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



TRANSPORT

Carrying the wheelchair

The backrest can be folded forward onto the seat for carrying the wheelchair [2]. The back support bracket (3) then serves as a carrying handle.

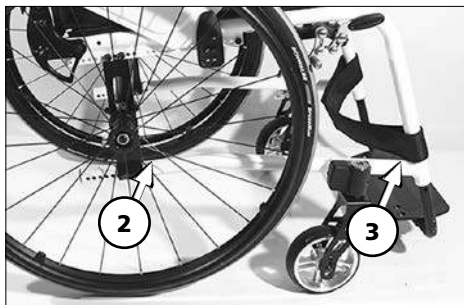
-  Check the locking down of the back support before carrying the wheelchair!



Transport security

The wheelchair is only to be secured through the four securing points (2) and (3).

- ☞ The anchor positions are marked with the symbol (4).
- ☞ The procedure for securing the wheelchair can be read in the document < Safety and general handling instructions < *Mechanical and muscle powered wheelchairs* > chapter < *Transport in motor vehicles or with conveyors* >.



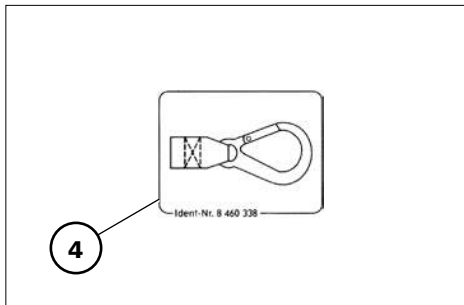
MAINTENANCE

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
	<p>Test brakes for faultless operation</p> <p>Activate brake lever to the limit. The locked wheels should not be able to turn under operating conditions. If they can still turn, the brakes must be repaired by an authorised specialist workshop.</p>	<p>Carry out test yourself or with a helper.</p>
<p>Before starting out</p>	<p>Check pressure brake for wear</p> <p>Move brake lever to the side</p>	<p>Carry out tests yourself or have a helper do it. If you notice any increasing slackness on the brake lever take the wheelchair to your specialist workshop immediately for repairs. – Danger of accident!</p>
<p>Before starting out</p>	<p>Check air pressure of the tyres</p>	<p>Do it yourself or with the aid of a helper. Use a tyre pressure tester or, if not available, the 'thumb press' method or similar (view < <i>Safety- and general handling instructions Mechanical and muscle powered wheelchairs</i> > chapter < <i>Tyres</i> >).</p>

WHEN	WHAT	REMARK
Before starting out	Check tyre profile	Carry out visual check yourself. If the tyre profile is worn down or if the tyre is damaged, consult a specialist workshop for repairs.
Before starting out	Check back support for stability Check frame tubes for damage	Carry out the test yourself or by a helper. If deformations or cracks occur in the welding seams, contact a specialist workshop immediately for repairs. – Danger of accident!
Before starting out Especially before driving in the dark	Check the lighting Check the light- and indicator signal equipment as well as reflectors for immaculate performance.	Carry out test yourself or with a helper.
Every 8 weeks (depending on distance covered)	Lubricate the following components with a few drops of oil – Moving parts of the locking mechanism. – Brake lever bearings.	Do it yourself or with the aid of a helper. Components must be free from used oil residues before lubrication. Please ensure that excess oil does not contaminate the environment (e.g. your clothing).

WHEN	WHAT	REMARK
<p>Every 8 weeks (depending on distance covered)</p>	<p>Check all screw connections for secure fit</p>	<p>Carry out test yourself or with a helper The following is to be checked with great care:</p> <ul style="list-style-type: none"> - Attachment of the back- and seat profiles at the side frame, - attachment of the footplate to the side frame.
<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>Maintenance</i> > in document < <i>Safety and general handling instructions Mechanical and muscle powered wheelchairs</i> >.</p> <p>Do it yourself or with the aid of a helper.</p>
<p>Manufacturer recommendation: Every 12 months (depending on frequency of use)</p>	<p>Safety inspection</p> <ul style="list-style-type: none"> - Vehicle 	<p>To be carried out by the specialist dealer.</p>

TECHNICAL DATA

All model dependent specifications within the < *Technical data* > refer to the standard version of the respective models.

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

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

The widths were determined with a handrim distance of 15 mm.

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

Short form of wheelchair dimensions:

SH = Seat height

SW = Seat width

SD = Seat depth

BH = Back support height

Calculation of the max. user weight:

Attention:

! The permissible total weight is calculated from the empty weight of the wheelchair and the maximum user- (person-) weight.

Additional weight due to subsequent additions or luggage reduce the maximum permissible user weight.

Example:

A driver wishes to take luggage with a weight of 5 kg. Thus, the maximum user weight is reduced by 5 kg.

Tyre filling pressure:

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

Full tyre pressure – steering wheel

Standard:

2.5 - 3.5 bar = 36 - 50 psi

Full tyre pressure – drive wheel

Standard:

3.0 - 4.0 bar = 44 - 58 psi

Ultra-light running tyres:

6 bar = 87 psi

High pressure:

8 bar = 116 psi

TECHNICAL DATA

Model:..... **1.160**

Type plate:..... on the axle tube

Life span: 4 years

Dimensions: **min. / max. / manufacturer setting**

Length with leg supports

Medium frame: 860 / 980 / 890 mm

Long frame:..... 920 / 1040 / 950 mm

Overall width:

w wheel camber 0°: 540 / 660 / 600 mm

w wheel camber 3°: 595 / 715 / 655 mm

Overall height: 630 / 920 / 770 mm

Back strap height adjustable by +1.5 cm each:

Adjustable back: 25 / 45 / 35 cm

Seat width: 360 / 480 / 420 mm

Seat depth (medium frame): 400 / 440 / 420 mm

Seat depth (long frame):..... 460 / 500 / 460 mm

Seat height, without cushion:

Seat surface height at front edge: 450 / 530 / --- mm

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

Push handle height:

continuously adjustable: 83 / 98 / --- cm

Back support angle (in steps of 3 cm): 72° / 96° / 90°

Seat tilt: 3° / 10° / ---

Leg support angle:

Code 346..... 79°

Foot support to seat, without seat cushion (lower shank length):

with foot board: 36 / 41 / 38 cm

Transport dimensions

Folding height:..... 725 / 850 / --- mm

Length without drive wheels, without leg supports: 700 / 760 / 700 mm
(Support castors are removed or swivelled underneath the seat)

Wheels

Steering wheel

ø 100 x 30 mm (4"): solid rubber
ø 125 x 30 mm (5"): solid rubber
ø 142 x 37 mm (5.5"): solid rubber

Driving wheel

ø 590 mm (24 x 1"): 4.0 bar
ø 610 mm (24 x 1 3/8"): 4.0 bar

Handrim diameter: 54 cm

Wheel camber: 0° / 3° / 3

Axle Horizontal position: 20.5 / 95.5 / 35.5 mm

Permitted inclination/slopes

max. obstacle height (depending on the setting of the leg support height): . 30 / 120 / 80 mm

min. turning radius diameter: 1250 mm

max. permissible rising gradient: 4.5° (8 %)

max. permissible falling gradient: 4.5° (8 %)

max. permissible transverse gradient: 4.5° (8 %)

static tilting safety in all directions: 6° (10 %)

Climatic data:

Ambient temperature: -25 °C to +50 °C

Storage temperature: -40 °C to +65 °C

Weights

Max. permissible total weight: 120 kg

max. user weight (including additional load): 110 kg

Max. additional loading: 10 kg

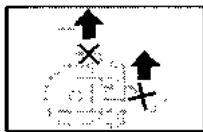
Empty weight: min. 10 / max. 14 kg

Heaviest single component:

Drive wheel: 2.3 kg

Transport weight: min. 7.5 kg
(without arm supports, cushion, drive wheels, leg supports)

Meaning of the labels on the wheelchair



Do not lift the wheelchair at the arm supports or leg supports.
Removable parts are not suited for carrying the wheelchair.

Achtung

Erhöhte Kippgefahr auf Steigung / Gefälle
besonders in Verbindung mit kurzem Rad-
stand.

Attention!

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

Meaning of the symbols on the type plate



Manufacturer



Order number



Serial number



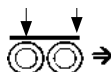
Production date (Year – Calendar week)



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 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: _____

NOTES

WARRANTY / GUARANTEE

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



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

WARRANTEE / 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[®]
We move people.

MEYRA GmbH
Meyra-Ring 2 · D-32689 Kalletal-Kalldorf
P.O. Box 1 210 · D-32586 Vlotho
Fon +49 (0)5733 922-311
Fax +49 (0)5733 922-9311
info@meyra.com
www.meyra.com