

Mobility scooter



# Trophy

USER MANUAL

EN



9002432N

---

---

<b>English .....</b>	<b>4</b>
----------------------	----------

---

# English

© 2016 Sunrise Medical

All rights reserved.

The information provided herein may not be reproduced and/or published in any form, by print, photoprint, microfilm or any other means whatsoever (electronically or mechanically) without the prior written authorization of Sunrise Medical.

The information provided is based on general data concerning the construction known at the time of the publication of this manual. Sunrise Medical executes a policy of continuous improvement and reserves the right to changes and modifications.

The information provided is valid for the product in its standard version. Sunrise Medical can therefore not be held liable for any damage resulting from specifications of the product deviating from the standard configuration. Illustrations contained in the manual may deviate from the configuration of your product.

The information made available has been prepared with all possible diligence, but Sunrise Medical cannot be held liable for any errors contained in the information or the consequences thereof.

Sunrise Medical accepts no liability for loss resulting from work executed by third parties.

Names, trade names, trademarks etc. used by Sunrise Medical may not, as per the legislation concerning the protection of trade names, be considered as being available.

<b>Introduction</b>	<b>6</b>
This manual	6
Product reference	6
Service and technical support	6
Identification plate	7
Approval	7
CE declaration	7
Warranty	8
Liability	10
Used scooters and the environment	10
<b>1 Safety</b>	<b>11</b>
1.1 General safety instructions	11
1.2 Decals and instructions on the scooter	11
1.3 Electronic safety	11
<b>2 General description</b>	<b>12</b>
2.1 Product description	12
2.2 Main components	13
2.3 Controls	13
<b>3 Operating instructions</b>	<b>18</b>
3.1 Inspection before use	18
3.2 Getting in and out	19
3.3 Free wheel lever	19
3.4 Switching on the scooter	20
3.5 Driving	20
3.6 Obstacles	21
3.7 Operation	21
3.8 Reducing the scooter	23
3.9 Transport	23
3.10 Seat adjustments	24
3.11 Adjustment options	24
<b>4 Maintenance</b>	<b>25</b>
4.1 Maintenance table	25
4.2 Batteries	25
4.3 Checking and inflating the tyres	26
4.4 Cleaning the scooter	26
<b>5 Troubleshooting</b>	<b>27</b>
5.1 Troubleshooting table	27
<b>6 Technical specification</b>	<b>28</b>

# Introduction

## This manual

With this manual you can safely use and maintain (clean) the product. In case of doubt always contact your dealer.



**Strictly follow the procedures with a caution symbol! These procedures can - if they are not executed properly - result in human injury or damage to the product or the environment.**

## For further information

Please contact your local, authorised Sunrise Medical dealer if you have any questions regarding the use, maintenance or safety of your wheelchair. In case there is no authorised dealer in your area or you have any questions, contact Sunrise Medical either in writing or by telephone.

For information about product safety notices and product recalls, go to [www.SunriseMedical.eu](http://www.SunriseMedical.eu)

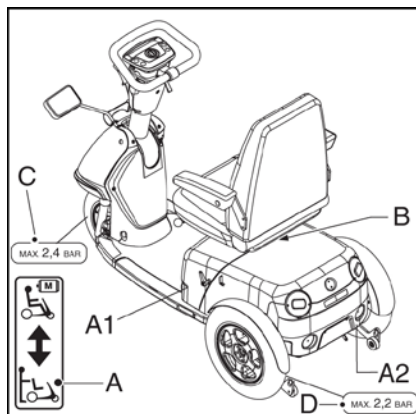
### NOTE:

Please note that driving a scooter requires sufficient cognitive, physical and visual skills. The user must be able to assess the effects of actions during the operation of the wheelchair and, if necessary, to correct them. These capabilities and the safe use of the additionally attached components cannot be assessed by Sunrise Medical as a manufacturer. We cannot accept any liability for any damage resulting from this.

Please refer to the operating instructions of the wheelchair and the additionally mounted components. Instruct the user in the safe use of the wheelchair and the additionally mounted components. Inform users of specific warnings that need to be read, understood, and respected.

## Product reference

- A1 Free wheel Trophy Alpine (and models < 2012)
- A2 Free wheel Trophy (if not A1) B Identification plate
- C Tyre pressure front wheel(s) D Tyre pressure rear wheels



## Service and technical support

For information concerning specific settings, maintenance or repair work, please contact your dealer. Make sure you always mention the model, year of manufacture and identification number. This information is provided on the identification plate of the product. A service manual is available for the dealer.

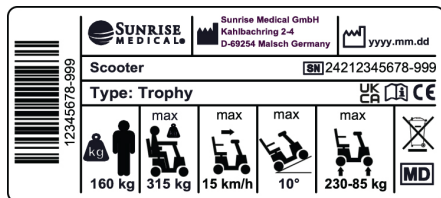
### B4Me special adaptations

Sunrise Medical strongly recommends that in order to ensure that your B4Me product operates, and performs as intended by the manufacturer; all the user information supplied with your B4Me product is read and understood, before the product is first used.

Sunrise Medical also recommends that the user information is not discarded after reading it, but it is kept safely stored for future reference.

## Identification Plate

Please refer to the serial labels table at the end of the manual



## Approval

The product meets the following standards:

1. EN12184 (1999) Electrically driven wheelchairs and scooters, class C.
2. ISO7176-8 Requirements for impact, static and fatigue strength.
3. ISO7176-9 Climate tests for electric wheelchairs and scooters.
4. ISO7176-14 Standards and test methods for controller systems of electrically driven wheelchairs.
5. ISO7176-16 Requirements of resistance to fire.

The product is EMC (Electro Magnetic Compatibility) approved in accordance with EN12184 (1999).

This product complies with the standards set forth in EU and UK regulations.



This symbol means Medical Device

## CE declaration



As the manufacturer, SUNRISE MEDICAL, declares that this product conforms to the Medical Device Regulation (2017/745).



As the manufacturer, SUNRISE MEDICAL, declares that the product conforms to the UK Medical Devices Regulation 2002 No. 618.

### NOTE:

General user advice.

Not following these instructions may result in physical injury, damage to the product or damage to the environment!

### Member State text

Notice to the user and/or patient: Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

### Medical Device Combinations

It may be possible to combine this Medical device with one or more other Medical Device or other product. Information on which combinations are possible can be found at [www.Sunrisemedical.co.uk](http://www.Sunrisemedical.co.uk). All combinations listed have been validated to meet the General Safety and Performance Requirements, Annex I Nr. 14.1 of the Medical Device Regulation 2017/745.

Guidance on the combination, such as mounting, can be found at [www.SunriseMedical.co.uk](http://www.SunriseMedical.co.uk)

The intended lifetime of this product is 5 years.

## Warranty

### Definitions of terms

Definitions of terms used in this warranty:

- After sales service part: Part purchased after the initial product that is durable and may be subjected to natural wear and tear or natural contamination during normal operation within the lifetime of the product.;
- Consumable part: Part that is subjected to natural wear and tear or natural contamination during normal operation within the lifetime of the product (section 9 of Sunrise Medical HCM B.V.'s general terms and conditions of sale);
- Client: Those who purchase the product directly from Sunrise Medical;
- Corrective action: Repair, replace or refund of the product;
- Dealer: Those who re-sell the product to the User;
- Defect: Any circumstance due to which the product is not sound or fit to use, caused by a lack of quality of the material used to manufacture the product as well as the quality of the manufacturing process;
- Option: An accessory delivered with the initial product by Sunrise Medical to extend the standard product model;
- Product: Product that is delivered according to brochure or contract (e.g. wheelchair, scooter, battery-charger etc.);
- Part: Part of product that can be exchanged or replaced. This can be an option, accessory, service part or consumable part;
- Returns: Product or part that needs to be returned;
- RMA-process user: Process to return goods, contact your dealer;
- RMA-process client: Process to return goods, contact Sunrise Medical's Customer Service;
- User: Those who use the product;
- Warranty: The rights and obligations set forth in this document;
- Warranty period: The period of time during which the warranty is valid;
- Warranty provider: Sunrise Medical HCM B.V., Vossenbeemd 104, 5705 CL Helmond, The Netherlands (also referred to as Sunrise Medical).

Notwithstanding the rights and obligations of Sunrise Medical, Client and User set forth in Sunrise Medical's general terms and conditions of sale, the rights of the Client and/or User towards Sunrise Medical in case of defects are limited to the provisions set forth in this warranty. For the duration of the warranty period Sunrise Medical guarantees that the product is without defects. In case of any defects the User is required –within two weeks after discovery of the defect- to contact the dealer. He has to complete a return form and return the product or part via the RMA-process. Sunrise Medical will, at its sole discretion, take the corrective action it seems fit under the given circumstances within a reasonable period of time (depends on nature of claim) from receipt of the completed return form. The warranty period will not be extended after a corrective action.



## Warranty period table

Description	Warranty period	Examples include, but are not limited to the parts mentioned below
<b>Frame</b>	2 years	Weldment/frame
<b>Drive system*</b>	1 year	Transaxle, motor, motor brake
<b>Electronics*</b>	1 year	Controller, controlling mechanism, wiring harness, electronic components
<b>After sales service parts</b>	New: 1 year after invoice Repaired: 90 days after invoice	Brakes
<b>Consumable parts</b>	40 days after invoice	Carbon brushes, etc.
<b>Options/Accessories</b>	2 years	Mirror, mudguards etc. Delivered with the initial product

\* also in case of after sales service part delivery

Sunrise Medical will only accept shipment costs and corrective costs related to warranty on equipment during the warranty period.

This warranty will void in case of:

- The product and/or its parts being modified;
- Changes in cosmetic appearance by use;
- Failure to observe the instructions for use and maintenance, use other than normal use, wear and tear, negligence, collateral damage by neglect of earlier symptoms, overloading, third-party accidents, non-original parts used and defects not caused by the product;
- Circumstances beyond our control (flood, fire, etc.).

This warranty does not cover:

- Tyres and inner tubes
- Batteries (covered by the battery manufacturer's warranty).

Clients and/or Users have legal (statutory) rights under applicable national laws relating to the sale of consumer products. This warranty does not affect statutory rights you may have nor those rights that cannot be excluded or limited, nor rights against the entity from whom the product was purchased. Clients may assert any rights they have at their sole discretion.

### Liability

Irrespective of what is determined regarding liability in the general conditions applicable to the Product, with regard to liability in any case the following applies:

1. Taking into consideration the following stipulations, Sunrise Medical only accepts liability for loss due to death or physical injury that is the result of a defect in the Product for which Sunrise Medical is responsible and for damage to another object that is the private property of the user of the Product, as long as said loss is the direct result of a fault in the Product. At all times, the liability of Sunrise Medical is limited to the amount which is being covered by the third-party insurer of Sunrise Medical.
2. Sunrise Medical accepts no other or further liability than delineated under 1. In particular Sunrise Medical accepts no liability for consequential damage, in any form whatsoever.

### Used scooters and the environment



If your scooter has become superfluous or needs to be replaced, it can usually be taken back by your dealer. If this is not possible, please contact your local authorities for the possibilities of recycling or an environmentally friendly way of disposing of the used materials.

For the production of the scooter several plastics and metals have been used. The scooter also contains electronic components that must go to electronic waste. Used batteries belong to chemical waste.

### Areas of Application

#### Indications

The varieties of fitting variants, as well as the modular design, mean that it can be used by those who cannot walk or have limited mobility because of:

- Paralysis
- Loss of extremity (leg amputation)
- Extremity defect deformity
- Joint contractures/joint injuries
- Strokes and brain injuries
- Neurological disabilities
- Illnesses such as heart and circulation deficiencies, disturbance of equilibrium or cachexia as well as for elderly people who still have strength in the upper body.

#### Contraindications

The mobility scooter shall not be used in case of:

- Perception disorder
- Imbalance
- Loss of both arms
- Joint contracture/joint damage on both arms
- Seating disability

## 1 Safety

Sunrise Medical accepts no liability whatsoever for damage or injury caused by the failure to (strictly) adhere to the safety guidelines and instructions or else due to carelessness during the use and cleaning of the scooter and possible accessories. Depending on the specific work circumstances or the accessories used, additional safety instructions may be required. Please contact your dealer immediately if you observe a potential danger during the use of the product.

### 1.1 General safety instructions



- **The user of the scooter is at all times fully responsible for the fulfilment of the locally applicable safety regulations and guidelines.**
- **The technical specifications must not be altered.**
- **Modifications to (parts of) the scooter are not permitted.**

### 1.2 Decals and instructions on the scooter



- **Signs, symbols and instructions placed on this scooter comprise part of its safety facilities. They must never be covered or removed and must remain present and clearly legible throughout the entire lifespan of the scooter.**

- **Immediately replace or repair illegible or damaged signs, symbols and instructions. Contact your dealer with regard to this.**

### 1.3 Electronic safety

- The standard version of your scooter has been tested according to the strictest EMC requirements. Mobile telephones have no influence on the driving behaviour of the scooter.  
When using a mobile telephone in the vicinity of a scooter with special adaptations, you are advised to first switch off the scooter.
- Your scooter may influence electromagnetic fields such as alarm systems.
- If the electronics of the scooter is not properly screened off, this may affect sensitive electrical appliances, such as shop alarms and garage openers. The scooter has been tested for this. Should any problems of this nature occur, please report these to your dealer immediately.

## 2 General description

### 2.1 Product description

The Trophy is an electrically driven scooter for longer distance outdoor use. The unique suspension system, stability and manoeuvrability offer excellent driving characteristics and maximum comfort. Fully adjustable, the Trophy scooter can be tailored to optimally meet your specific requirements, ensuring a relaxing position of the hands and shoulders. With controls on the right- or left-hand side the clear control panel can be easily operated with very little operating force. The Trophy scooter provides maximum independence!

The Trophy has been designed for:

- Transport of persons to a maximum weight of 160 kg.
- Use on paved roads, sidewalks, foot- and bicycle paths.
- Use in and around the house.

Your dealer must give you good driver's instructions before you can independently operate the product and participate in traffic.

You must be able to correct the consequences of actions while driving the scooter.

Consider operating the scooter under the supervision of an experienced dealer during first operations.

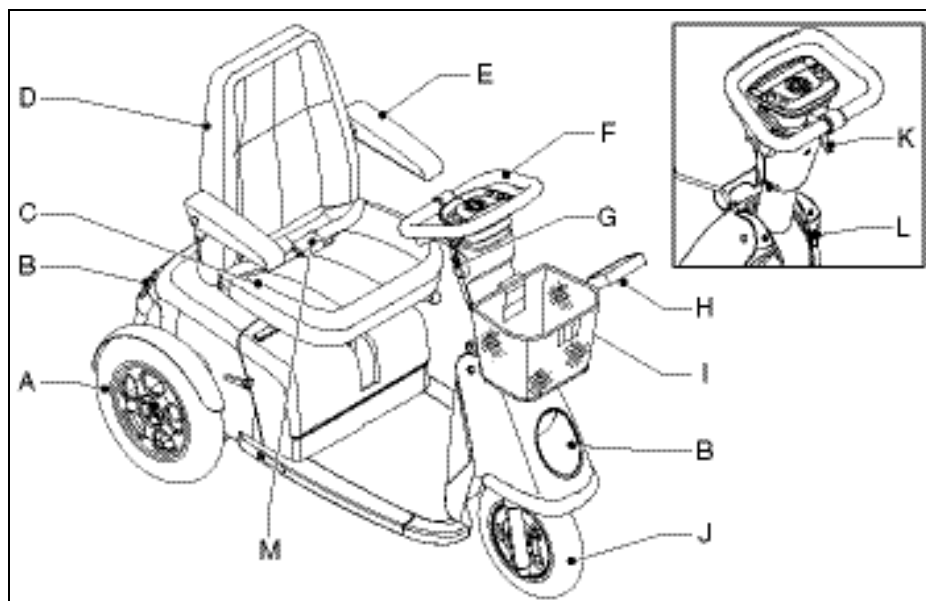
The scooter is not a motorised vehicle in the sense of traffic regulations.

The Trophy has a maximum speed of 15 kph.

If you use the scooter for other purposes than those for which it is intended, Sunrise Medical accepts no liability whatsoever for damage or injury resulting from such use other than for which the scooter was developed and designed.



**Please study this manual carefully before you use the scooter.**



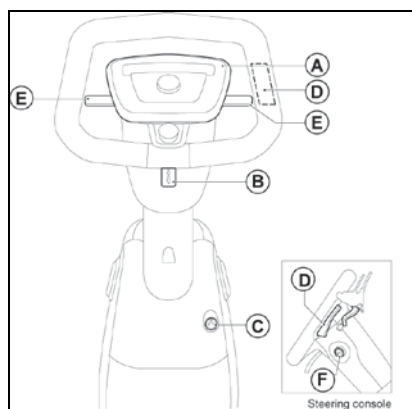
## 2.2 Main components

- |   |                |   |   |
|---|----------------|---|---|
| A | Rear wheels    | I | Basket  |
| B | Lighting       | J | Front wheel(s)                                  |
| C | Seat           | K | Tiller angle adjustment                         |
| D | Backrest       | L | Charge connection for the batteries             |
| E | Armrest        | M | Lap belt, to be provided by the dealer (option) |
| F | Tiller console |   |   |
| G | Ignition lock  |   |   |
| H | Mirror         |   |   |

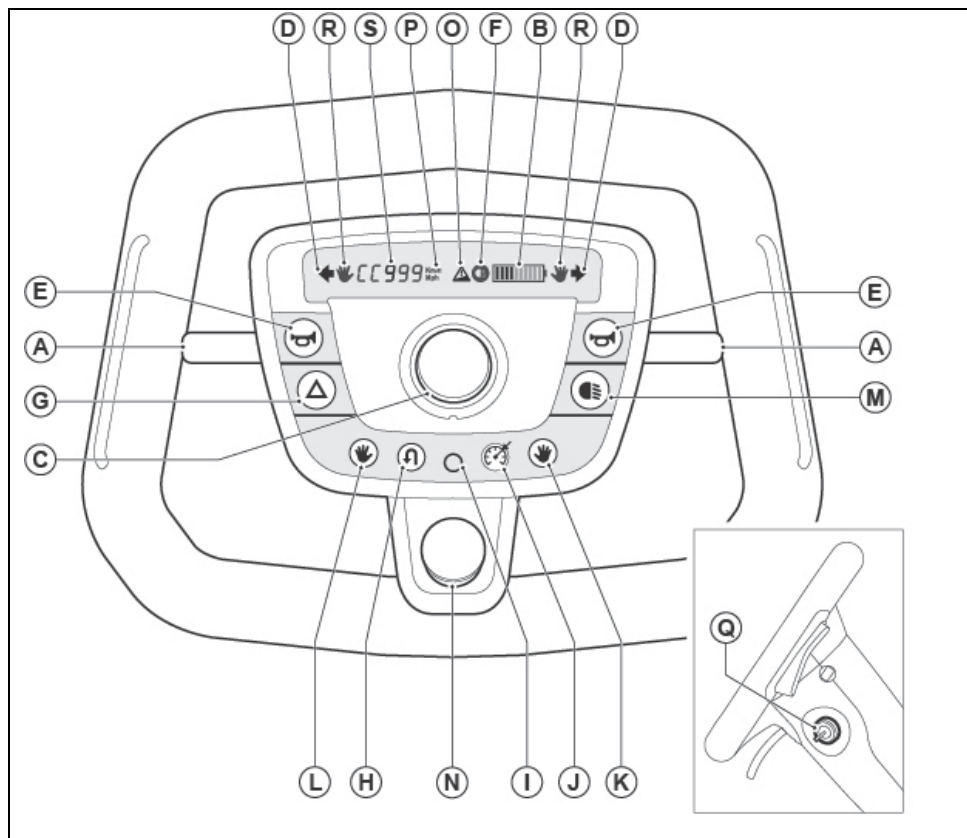
## 2.3 Controls

The scooter has the following controls

- A Control panel with all of the control keys
- B Handle for adjusting the angle of the steering column
- C Charging point. See 'Charging the batteries'.
- D Forward or reverse levers
- E Handles for indicator lights
- F Ignition key



## General description








The control panel is equipped with the most advanced technology, offering functions for operating your scooter which are both useful and reliable.








- A Indicator handles, left and right \*
- B Battery indicator
- C Speed regulator
- D Indicator for hazard lights / indicator lights
- E Horn switch\*
- F Indicator for lights
- G Hazard lights switch
- H Reverse switch for foot throttle (if applicable)
- I Display menu selection switch
- J Cruise control switch (if applicable)

- K Right throttle selection switch (if applicable)
- L Left throttle selection switch (if applicable)
- M Light switch
- N Emergency stop button (if applicable)
- O Safe slope alarm indicator
- P Light sensor
- Q Ignition key
- R Active throttle indicator (if applicable)
- S Display







\*These keys can be found on both the left-hand and right-hand side of the control panel

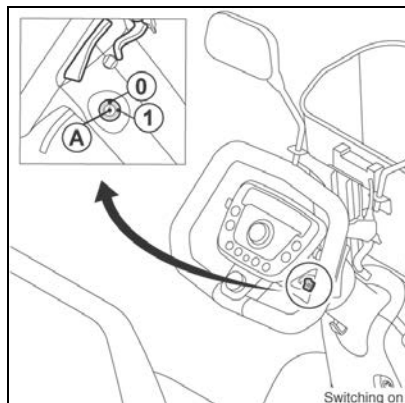
	<p><b>A Indicator handles, left / right</b>  On moving the handle (on the left or right-hand side) the indicator light starts flashing in order to indicate that you are going to change direction:</p> <ul style="list-style-type: none"> <li>• Move left handle downwards or right handle upwards for turning left</li> <li>• Move left handle upwards or right handle downwards for turning right.</li> </ul> <p>A bleeping sound can be heard when the indicator is switched on (if programmed).  To turn off the indicators, press the same handle in the same direction again or wait 12 seconds.</p>
	<p><b>B Battery indicator</b>  The battery indicator provides a general indication of the state of the batteries. The batteries are fully charged when all the lights are illuminated. As the battery runs down, the lights go out one by one and changes into red, when it becomes critical. The indicator lights indicate the battery voltage available for the control unit. It is normal for the lower indicator to go out when the scooter accelerates. This is because extra power is needed momentarily, leading to a decrease in available voltage. This momentary dip is not a true indication of the battery capacity. When the scooter is used for the first time, the battery indicator may show that the batteries are fully charged, even if this is not the case. This is a feature of the batteries. Therefore, the most accurate indication of the battery level is to be obtained when driving on a flat surface.</p> <p> If the RED lights are illuminated on the battery indicator, then it is important that the batteries be recharged as soon as possible. Ensure that the batteries never run down completely; this reduces the lifespan of the batteries and can damage them.</p> <p>When lights are continuously moving, it indicates that the batteries are charging. The battery indicator gives also error messages from the controller. Dealer can analyse with the help of this fault-code message, the problem.</p>
	<p><b>C Speed regulator</b>  This knob allows you to set in 10 steps the desired maximum speed for your scooter. The maximum speed is increased by turning the knob in a clockwise direction. Turning the knob in an anti-clockwise direction decreases the maximum speed. Adjust the speed regulator before driving. Adjust the maximum speed to the surroundings and to traffic conditions (to a limited amount of space or to a room full of people, for example).</p>
	<p><b>D Indicator for hazard lights / indicator lights</b></p>
	<p><b>E Horn switch</b>  By pressing one of the horn keys, a warning sound is emitted to warn others of hazardous situations.  The horn continues to sound as long as the key is pressed.</p>

## General description

	<p><b>F</b> Indicator for lights</p> <p>This indicator is activated when lights are switched on.</p>
	<p><b>G</b> Hazard lights switch</p> <p>Pressing this key turns on the hazard lights. The hazard lights should be used if you suspect that you will not be seen by other road users, or if the scooter is at a standstill due to a defect. Pressing this key once more turns off the hazard lights. A bleeping sound is emitted when the hazard lights are turned on (if programmed).</p>
	<p><b>H</b> Reverse switch for foot throttle (if applicable)</p> <p>Key to change direction when foot throttle is installed. After switching off the scooter by key, emergency stop, the standard direction is always forward.</p>
	<p><b>I</b> Display menu selection switch</p> <p>Key to switch between display menu showing speed, trip distance and overall distance. When holding this key for more than 2 seconds in trip/mode, this value will be reset.</p>
	<p><b>J</b> Cruise control switch (if applicable)</p> <p>Key to activate cruise control and set speed on current forward driving speed. Display will indicate CC when cruise control is set. It deactivates automatically when brake, emergency stop button, throttle, throttle selection switch, switch or CC-switch is used.</p>
	<p><b>K</b> Right throttle selection switch (if applicable)</p> <p>Key to select / activate manually the right throttle, when also other throttles are installed. This will also be indicated on display. This is always active after switching on the scooter.</p>
	<p><b>L</b> Left throttle selection switch (if applicable)</p> <p>Key to select / activate manually the left throttle, when also other throttles are installed. This will also be indicated on display.</p>
	<p><b>ITS Intelligent Throttle Switch (if applicable)</b></p> <p>After switching on the scooter, the first throttle that is used, becomes active. To switch to the other throttle, simply the other throttle should be operated and the currently active throttle should be released within 2 seconds. ITS is only possible in forward direction</p>



	<p><b>M</b> Light switch</p> <p>By pressing this key once, the front and rear lights are turned on. On pressing once more, the lights are turned off again.</p>
	<p><b>N</b> Emergency stop button (if applicable)</p> <p>Push to enable the emergency stop button. The scooter stops driving immediately and the hazard lights will turn on. To disable this function, the button needs to be turned counter clockwise and switch the scooter off and on again.</p>
	<p><b>O</b> Safe slope alarm indicator</p> <p>This indicator lights up when a slope is too steep and exceeds the safe slope specification. Advice is stop driving further on this slope due to safety and drive back very carefully as mentioned in section 3.7.</p>
	<p><b>P</b> Light sensor</p> <p>This sensor controls the brightness of the display automatically. Daylight → bright. Darkness → dimmed.</p>
	<p><b>Q</b> Ignition key</p> <p>The ignition key needs to be inserted in the ignition lock and turned in order to switch on the scooter. All of the Trophy 20 functions can be operated only when the ignition key has been inserted in the ignition lock, with the exception of the lights and the hazard lights. The hazard lights and lights can always be operated, even when the ignition key has not</p>
	<p><b>R</b> Active throttle indicator (if applicable)</p> <p>Indicates, when more than one throttle is installed, which throttle is active. In case just one throttle system is installed or foot throttle is active, indicators will be activated.</p>
	<p><b>S</b> Display</p> <p>Display shows user info like speed, trip distance in a resolution of 0.1 km or M and overall distance in a resolution of 1 km or M. It also indicates the units (km/h or Mph) and if the cruise control is activated by showing CC. Flashing values means that the reverse direction is active for foot throttle. The brightness of the display will automatically change to its environment</p>



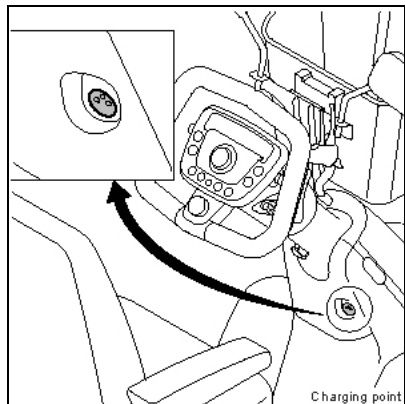
### Switching on

The scooter is switched ON as follows:

- Insert the ignition key as far as possible in the lock (A) and turn it clock-wise towards the 1 indicating the switched ON position.

The scooter is switched OFF as follows:

- Turn the ignition key as far as possible counter clock-wise towards the 0 indicating the switched OFF position. Remove the key from the lock (A).

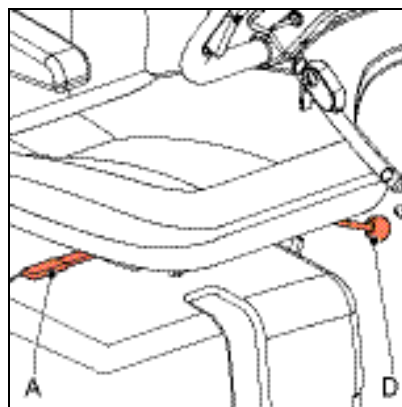


### Charging point

- The charging point (A) is located on the steering column, under the control panel. This is the point to

which the battery charger cable can be connected.

All electronics must be switched off while the batteries are charging. Remove the ignition key before charging the batteries.



## 3 Operating instructions

### 3.1 Inspection before use

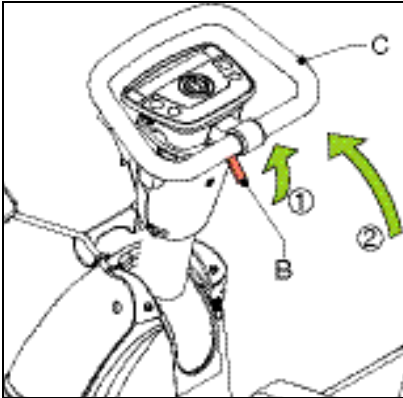
It is important to check the following points before you start driving the scooter:

- If the seat is properly locked (A).
- If the lights and indicators are working properly.
- If the tyres are sufficiently inflated.
- If the batteries are charged sufficiently. The green battery indicator lights must be on.



- **In winter the batteries have a lower capacity. In case of light frost the capacity will drop to approximately 75% of the normal capacity. At a temperature of less than -5° the capacity will be approximately 50% of the normal capacity. This will affect the range.**

- If you observe anything unusual while driving, release the throttle and take the key out of the ignition once you have stopped.



### 3.2 Getting in and out

1. Make sure the scooter is switched off electrically.
2. Put the free wheel handle in the DRIVE position.

#### Tiller angle adjustment

Pull the handle (B) for the tiller angle adjustment (C) and push the tiller forward.

#### Turning the seat

1. Move handle (A) forward and turn the seat 90° to the left or the right. The seat will lock automatically when turned 90°.
2. Now seat yourself on the seat.
3. Turn the seat back as described above. When the seat has been turned to its original position, it will click back into place.

#### Folding up armrests

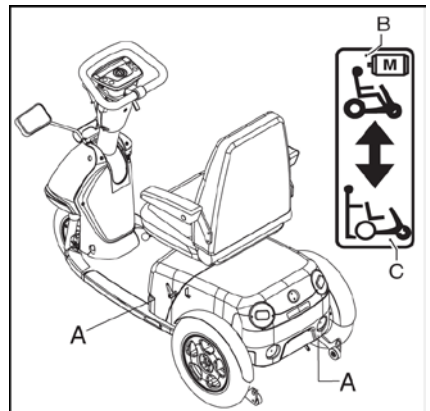
The armrest can be folded up so that you can get in and out sideways.

#### Sliding seat adjustment

Pull up the handle (D) and move the seat forward or backward into a comfortable position.



**Switch of the scooter electrically before you get in or out! This way you will avoid that the scooter starts to move when you accidentally squeeze an operating handle.**



### 3.3 Free wheel lever

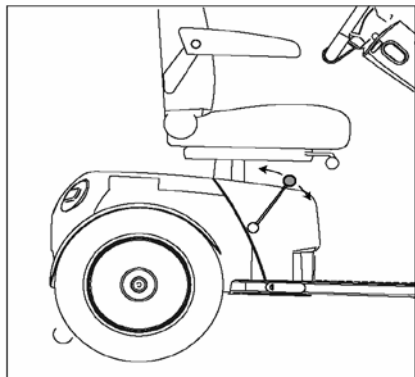
Put the free wheel lever (A) in the DRIVE position (B) to be able to drive the scooter electrically.

To be able to push the scooter, put the free wheel lever in the Push (C) position.



- **Never put the scooter in the Drive position when you are parked on a slope. When the scooter is parked on a slope that is too steep, it can start moving down the slope.**
- **After pushing, the free wheel lever should immediately be returned to the Drive position.**

- The free wheel lever should only be put in the Push position if the scooter is to be pushed. In the Drive position the automatic parking brake is activated.



### 3.4 Switching on the scooter

To switch on the scooter put the key in the ignition and turn the key a quarter of a turn.



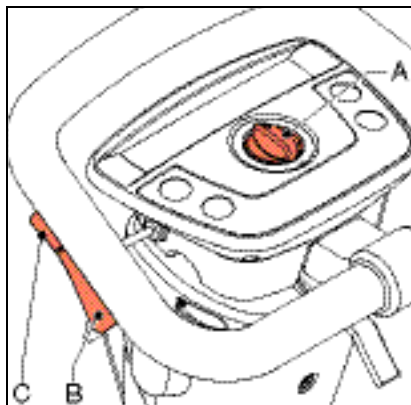
When an electronics error is detected, the battery indicator will start flashing. The electronics are blocked.



Make sure that the hand brake isn't still in its parking position when you take off.



Make sure no other keys / key ring are attached to the scooter's key ring while driving. This way you will avoid that the scooter is accidentally switched off and comes to a standstill.



### 3.5 Driving



- As a scooter driver you are vulnerable in traffic. Other traffic participants may not always notice you.
- Keep to the applicable traffic regulations.
- Avoid out-of-the way routes, so that help can be on its way quickly when needed.
- Use lap strap if applicable

#### Driving forward

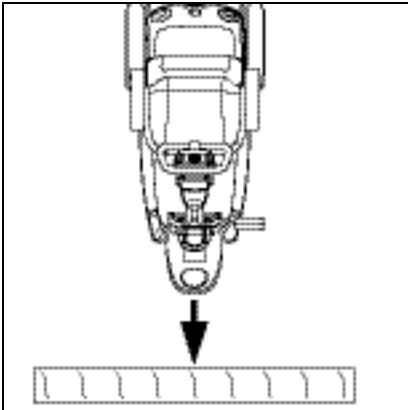
1. Switch on the scooter, see 3.4.
2. Use the speed control (A) to select the desired speed.
3. Squeeze the bottom part (B) of one of the operating handles. The further you squeeze the handle, the faster you will drive.

#### Reversing

1. Release the operating handle. The scooter will come to a standstill.
2. Slowly squeeze the top part (C) of one of the operating handles. The scooter will drive in reverse.
3. When you release the operating handle, you will brake automatically.



Select speed position 2 using the speed control (A). In the lowest speed position, the scooter will not drive.



### 3.6 Obstacles

#### Driving up obstacles

1. Drive straight up to the kerb.
2. Slowly squeeze the operating handle. Drive up the sidewalk without changing direction.
3. As soon as the front wheel is on the sidewalk, you must keep your speed for the rear wheels to be able to move up the sidewalk as well. If you cannot drive up onto the sidewalk, find a lower place where you can.

#### Driving down obstacles

1. Drive straight up to the edge of the sidewalk.
2. Slowly squeeze one of the operating handles. Drive carefully down the kerb without changing direction.



- Do not drive down stairs!
- In panic, release immediately the throttle. The scooter will stop automatically.

### 3.7 Operation

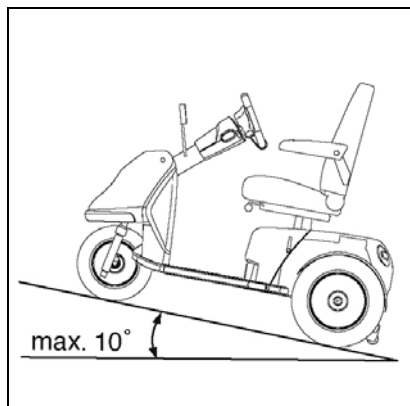


- Switch of the scooter electrically before you get in or out! This way you will avoid that the scooter starts to move when you accidentally squeeze an operating handle.
- Maximum slope which can safely be driven with maximum weight according to ISO 7176-2 is 10° at 160 kg.

#### Driving up a slope



- Slopes with an angle of more than 10° must not be taken.
- Always drive slowly and with awareness on slopes.
- Do not drive down slopes with loose gravel or a sandy surface, as one of the rear wheels might slip.
- Avoid sudden and jerky movements.
- Avoid directional changes and turns on slopes if you notice a strong decrease in speed when driving up a slope, take a less steep route.
- Driving on a slope too long can cause overheating.



### Driving down a slope



- If you need to drive down a slope, make sure the speed control is in the lowest position and drive as slowly as possible and with the utmost control.
- It can be very dangerous to reverse down a slope.
- Move the upper part of your body slightly backward and always brake slowly. If you brake fast, you may cause the scooter to tip over forward.

### Curves

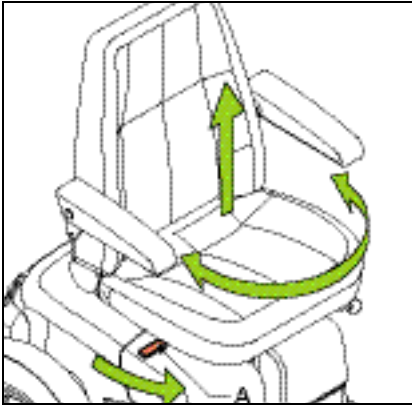


- Never take curves at full speed. Decrease speed before taking a curve.
- Use the indicators when changing direction.
- When making difficult movements, turn the speed controller in a low position.

### Miscellaneous



- Drive carefully on slippery roads, resulting from rain, ice or snow!
- Prevent the scooter from coming into contact with seawater: seawater is caustic and may damage the scooter.
- Prevent the scooter from coming into contact with sand: sand may affect the moving parts of the scooter, resulting in unnecessarily rapid wear.
- Do not drive the scooter when you are under the influence of drugs, alcohol or medication that could affect your ability to drive.
- You must have sufficient eye sight to be able to safely drive the scooter.
- It is imperative to turn on the lights in case of reduced visibility.
- When driving at a high speed you must be extra careful. Select a lower maximum speed on sidewalks and in pedestrian areas.
- Be sure that no items of clothing hang loose. These could be caught between the wheels.



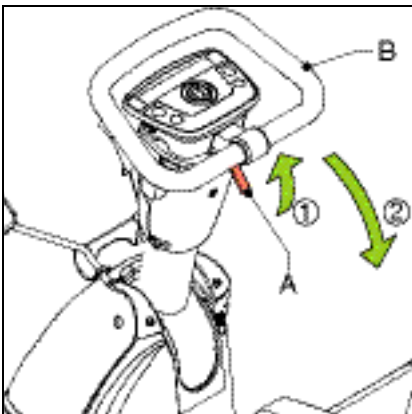
### 3.8 Reducing the scooter

#### Removing the seat

1. Move the handle (A) forward.
  2. Lift the seat from the socket in which it turns.
- The seat can be removed more easily if you slightly turn the seat while lifting it.

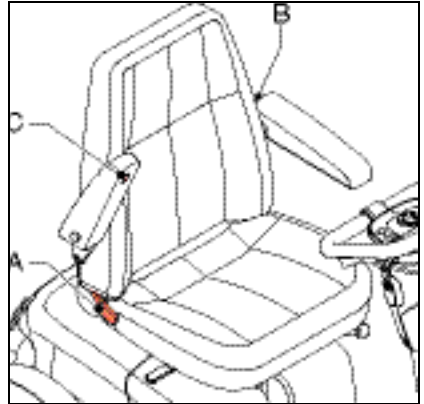
#### Folding down tiller

Pull up the handle (A) and fold down the tiller (B).



### 3.9 Transport

The scooter can be placed in a car. The best way to do this is by using steel planking, across which the scooter is pushed into the car. The scooter may also be lifted; this requires at least two strong persons.



- Considering the nature of the scooter, the user is supposed to make a transfer to a regular car seat. You may not be transported in a car or taxi while sitting on the scooter, even if the vehicle concerned has been adapted for the transport of scooters. The reason for this is that a scooter cannot offer the level of safety that is offered by standard car seats, no matter how well the scooter is fixed to the vehicle concerned.
- After the scooter has been placed in the car, you must make sure that the free wheel lever is in the Drive position.
- The scooter must be secured with lashing straps at the tie-down points on the front and back of the frame.

### 3.10 Seat adjustments

#### Backrest

1. Seat yourself on the seat and pull up the handle (A). The backrest will move forward.
2. Press the backrest backward by leaning back to a position that is most comfortable for you. Then push the handle down to secure the backrest in the position you have chosen.



**Do not operate the handle if the seat is unoccupied, because then the backrest will come forcefully forward.**

#### Lower-backrest

Seat yourself on the seat and turn the knob (B) in such a way that the lower-backrest reaches the most optimal position for you.

#### Armrest

Turn the wheel (C) to adjust the height and angle of the armrest.



**If the position of the backrest is adjusted, this will affect the position of the armrests.**

#### Headrest height

Choose a comfortable height for the headrest.

### 3.11 Adjustment options

To ensure optimal posture and positioning as well as a relaxing position of the arms and shoulders, your dealer can adjust the:

- Seat height
- Tiller console height
- Tiller console angle
- Spring tension (suspension of the scooter)



## 4 Maintenance

### 4.1 Maintenance table

It is recommended to have your scooter serviced by your dealer once a year or, in case of intensive use, every six months. The table below shows the maintenance activities you can perform yourself.

Frequency	Description
Daily	Charge the batteries after each use, see 4.2.
Weekly	Check tyre pressure and inflate the tyres if necessary, see 4.3
Monthly	Clean the scooter, see 4.4.
	Clean the upholstery, if necessary, see 4.4.
	Check the batteries (in summer: once every fortnight; in winter: once a month), see 4.2
Every three months	Lubricate the turning system of the seat.

### 4.2 Batteries

The scooter has 'dry' gel batteries. These dry batteries are entirely closed and maintenance free.



**The use of 'wet' batteries is not permitted.**

#### Charging the batteries

Consult the owner's manual of the battery charger.

In case of normal use the batteries should be charged every night.

1. Switch off the scooter.

2. Put the plug of the charge cord in the charge connection, see chapter 2.2.
3. Put the plug of the battery charger in the wall outlet of the electricity mains.

When the batteries have been charged:

1. Remove the plug of the battery charger from the wall outlet of the electricity mains.
2. Remove the plug from the charge connection.



- **As soon as the plug of the charge cord is connected to the charge connection, the operation of the scooter is switched off.**
- **Always remove the charge cord when the batteries have been charged. This way, you will prevent slow depletion of the batteries.**
- **Disconnect batteries in case of longer storage without usage.**
- **It is advised to mount a smoke detector in the charging area.**

#### Maintenance of the batteries

Refer to the battery instructions.



- **Make sure that the batteries are always well charged.**
- **Do not use the scooter if the batteries are almost depleted and never completely deplete the batteries. This can seriously damage the batteries and you run the risk to come to an unintended standstill.**

### Cleaning the batteries

Keep the batteries clean and dry. Dirt and water can cause a leak, reducing the capacity of the batteries. After cleaning grease the poles with acid-free vaseline.

### Replacing the batteries

If the capacity of the batteries is reduced to the extent that the scooter can only make very short trips, the batteries are at the end of their lifespan. The batteries must be replaced as soon as possible. Contact your dealer for this.

## 4.3 Checking and inflating the tyres



- **Make sure the tyres are kept at the correct pressure.**
- **The tyre pressure may never exceed the maximum value indicated on the tyre.**

Inflate the tyres with a foot pump or a bicycle pump, in combination with the reducing nipple included in the delivery. You can also have your tyres inflated at your local petrol station.

- Tyre pressure front wheel: 2.4 bar
- Tyre pressure rear wheel: 2.2 bar

## 4.4 Cleaning the scooter

### Removing dry dirt

Upholstery, metal parts and frame parts can usually easily be cleaned with a dry soft cloth.

**Removing mud and other wet dirt** The dirty parts can best be cleaned by first wiping them with a wet sponge and then wiping them dry with a dry soft cloth.

### Cleaning the upholstery

Clean the upholstery with a damp cloth and household soap. Then wipe the upholstery dry with a soft dry cloth.

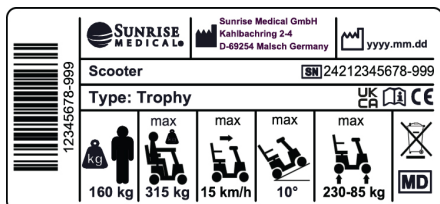


- **Never use abrasive or aggressive cleansers. They can scratch the scooter.**
- **Do not use organic solvents such as thinner, benzene or white spirit.**
- **Be careful with water in view of the electronic system.**
- **Do not dry clean, iron or spin-dry the upholstery.**

### Hygiene measures when being re-used:

Prior to the wheelchair being re-used, it must be carefully prepared. All surfaces which come into contact with the user must be treated with a disinfection spray. To do this, you must use a disinfectant as authorised/recommended in your country, for rapid alcohol-based disinfection for medical products and medical devices, which must be disinfected quickly. Please be aware of the manufacturer's instructions for the disinfectant you are using.

In general, a complete disinfection cannot be guaranteed on seams. We therefore recommend that you dispose of seat and back slings to avoid micro-bacterial contamination with active agents according to your local infection protection law.



## 5 Troubleshooting

### 5.1 Troubleshooting table

If the scooter will not function, while the batteries are fully charged, check the following points before contacting your dealer.

1. Switch off the scooter and then switch it on again. Check if the problem has been solved.
2. Check if all charge plugs are properly connected and secured.
3. Check if the scooter is in the DRIVE position (not in NEUTRAL).
4. Check if the position of the speed control has not changed.
5. In case of a malfunction the battery indicator lights will be flashing. Use the table below to find out the cause and report this information to your dealer.

<b>TYPE:</b>	Product Name/SKU Number.
	Maximum safe slope with anti-tip tubes fitted, Depends on scooter setting, posture and physical capabilities of the user.
	Maximum user weight.
	Maximum axle loading.
	Maximum total weight.
<b>UK CA</b>	UKCA Mark.
<b>CE</b>	CE Mark.
MAX $\frac{x}{y}$ mi/h km/h	Maximum speed.
	Consult instructions for use.
	Indicates electrical / electronic equipment must be disposed of in accordance with the WEEE regulation.
XXXX-XX-XX	Date of manufacture.
<b>SN</b>	Serial number.
<b>MD</b>	This symbol means Medical Device.
	Manufacturer's address.
	Importer's address
<b>UK RP</b>	UK Responsible Person
<b>CH REP</b>	Swiss Representative's address



**ISO 7010-M002**  
Instruction manual/booklet  
must be read! (Blue Icon)

Number of lights	Fault description	Action
6	Scooter is connected to the battery charger.	Disconnect the scooter from the battery charger.
7	Throttle error.	Make sure the throttles are not activated when the scooter is switched on.

In all other cases contact your dealer.

## 6 Technical specification

Model		Trophy 3W	Trophy 4W	Trophy Alpine
Max. user weight	kg	160	-	-
Total length	mm	1400	-	-
Total width	mm	660	-	-
Total weight without batteries	kg	155	166	155
Transport weight of heaviest part	kg	90	101	90
Static stability downward	°	15	-	-
Static stability upward	°	15	-	-
Static stability sideways	°	15	-	-
Range (ISO 7176) 85 Ah batteries	km	60	-	-
Range (ISO 7176) 56 Ah batteries	km	40	-	-
Dynamic stability on slopes	°	14	-	-
Climbing capacity for obstacles	mm	100	-	-
Starting on a slope	°	10	10	14
Maximum speed forward	km/u	15	15	11
Minimum brake distance at maximum speed	mm	2100	-	-
Idem, maximum	mm	2200	-	-
Seat angle	°	2	-	-
Effective seat depth	mm	440	-	-
Effective seat width	mm	460	-	-
Seat height front, minimum	mm	420	-	-
Idem, maximum	mm	550	-	-
Back angle, minimum	°	90	-	-
Idem, maximum	°	180	-	-
Back height	mm	550	-	-
Armrest height, minimum	mm	180	-	-
Idem, maximum	mm	220	-	-
Front armrest to backrest	mm	260	-	-
Minimum turning radius	mm	1250	1480	1250
Capacity to drive over obstacles	mm	100	-	-
Ground clearance	mm	70	-	-
Turning space	mm	1650	1940	1650

Batteries	
Maximum dimensions batteries	334x178x253 mm
Battery type	Gel/AGM
Scooter weight incl batteries	170 kg
Maximum battery capacity	86 Ah
Maximum battery capacity with 5 hours charging time	27.5 Ah
Maximum permissible charging voltage	13.6 V
Maximum charging current	10 A
Connector type	A DIN 72311
Connector type	A DIN 72311

Operating force	
Throttle	< 60 N
Electronic switches	< 13.5 N
Parking brake	< 60 N
Insert charge plug	< 60 N

Wheels	
Diameter front wheel	12.5" x 2.25"
Diameter rear wheels	3.00x10
Tyre pressure front wheel	2.4 Bar
Tyre pressure rear wheels	2.2 Bar



---



Sunrise Medical S.r.l.  
Via Riva, 20 – Montale  
29122 Piacenza  
Italia  
Tel.: +39 0523 573111  
Fax: +39 0523 570060  
www.SunriseMedical.it

Sunrise Medical AG  
Erlenauweg 17  
CH-3110 Münsingen  
Schweiz/Suisse/Svizzera  
Fon +41 (0)31 958 3838  
Fax +41 (0)31 958 3848  
www.SunriseMedical.ch

Sunrise Medical AS  
Delitoppen 3  
1540 Vestby  
Norge  
Telefon: +47 66 96 38 00  
post@sunrisemedical.no  
www.SunriseMedical.no

Sunrise Medical AB  
Neongatan 5  
431 53 Mölndal  
Sweden  
Tel.: +46 (0)31 748 37 00  
post@sunrisemedical.se  
www.SunriseMedical.se

MEDICCO s.r.o.  
H – Park, Heršpická 1013/11d,  
625 00 Brno  
Czech Republic  
Tel.: (+420) 547 250 955  
Fax: (+420) 547 250 956  
www.medicco.cz  
info@medicco.cz  
Bezplatná linka 800 900 809

Sunrise Medical Aps  
Mårkærvej 5-9  
2630 Taastrup  
Denmark  
+45 70 22 43 49  
info@sunrisemedical.dk  
Sunrisemedical.dk

Sunrise Medical Australia  
11 Daniel Street  
Wetherill Park NSW 2164  
Australia  
Ph: +61 2 9678 6600  
Email: enquiries@sunrisemedical.com.au  
www.SunriseMedical.com.au

Sunrise Medical  
North American Headquarters  
2842 Business Park Avenue  
Fresno, CA, 93727, USA  
(800) 333-4000  
(800) 300-7502  
www.SunriseMedical.com



Sunrise Medical GmbH  
Kahlbachring 2-4  
69254 Malsch/Heidelberg  
Deutschland  
Tel.: +49 (0) 7253/980-0  
Fax: +49 (0) 7253/980-222  
www.SunriseMedical.de

Sunrise Medical  
Thorns Road  
Brierley Hill  
West Midlands  
DY5 2LD  
England  
Phone: 0845 605 66 88  
Fax: 0845 605 66 89  
www.SunriseMedical.co.uk

Sunrise Medical S.L.  
Polígono Bakiola, 41  
48498 Arrankudiaga – Vizcaya  
España  
Tel.: +34 (0) 902142434  
Fax: +34 (0) 946481575  
www.SunriseMedical.es

Sunrise Medical Poland  
Sp. z o.o.  
ul. Elektronowa 6,  
94-103 Łódź  
Polska  
Telefon: + 48 42 275 83 38 Fax:  
+ 48 42 209 35 23  
E-mail: pl@sunrisemedical.de  
www.Sunrise-Medical.pl

Sunrise Medical HCM B.V.  
Vossenbeemd 104  
5705 CL Helmond  
The Netherlands  
T: +31 (0)492 593 888  
E: customerservice@sunrisemedical.nl  
www.SunriseMedical.nl  
www.SunriseMedical.eu  
(International)

Sunrise Medical SAS  
ZAC de la Vrillonnerie  
17 Rue Michaël Faraday 37170  
Chambray-Lès-Tours Tel : +33  
(0) 2 47 55 44 00 Email:  
info@sunrisemedical.fr  
www.sunrisemedical.fr

