

SWITCH-IT CTRL+5 Switch for Wheelchairs Owner's Manual

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SWITCH-IT CTRL+5 Switch for Wheelchairs



Product Specifications

Manufacturer: Sunrise Medical
Model Number: 247780 Rev. F

• Material: Various recyclable materials

• Languages: English

• Warranty: Contact the authorized dealer for details

Product Usage Instructions

Registration and Support

 Register your product at <u>www.SunriseMedical.com/register</u> to stay updated on safety information and new products. Contact your authorized dealer for questions, maintenance, and support.

Disposal and Recycling

• When disposing of the product, take it to an approved collection or recycling point as per local laws. Ensure proper disposal to conserve natural resources and protect the environment.

Installation and Safety

• Read and understand the manual thoroughly before installing the equipment. Contact a qualified clinician or authorized dealer if you have any doubts. Check all parts for shipping damage before use.

Frequently Asked Questions

Q: Can I view the manual in a different format if I'm visually impaired?

A: Yes, the manual can be viewed in PDF format at www.SunriseMedical.com for users with visual impairments.

Q: What should I do if I suspect Electro-Magnetic Interference (EMI) or Radio Frequency Interference (RFI)

affecting the product?

A: Contact your Sunrise Medical authorized dealer immediately if you suspect EMI or RFI events affecting the product to ensure proper assistance and resolution.

NOTE: Check all parts for shipping damage. In case of damage DO NOT use. Contact Carrier/Sunrise Medical for further instructions.

SUNRISE MEDICAL LISTENS

Thank you for choosing a Switch-It product. We want to hear your questions or comments about this manual, the safety and reliability of your product, and the service you receive from your Sunrise Medical authorized dealer.

Please feel free to write or call us at the address and telephone number below:

- WARNING DO NOT install this equipment without First reading and understanding this manual.
- If you are unable to understand the Warnings, Cautions, and Instructions, contact a qualified clinician or Sunrise Medical authorized dealer – otherwise injury or damage may occur.
- WARNING This device can be affected by Electro-Magnetic Interference (EMI) and Radio Frequency Interference (RFI).
- If you think the product has undergone an EMI or RFI event, please contact your Sunrise Medical authorized dealer immediately.
- 1. Radio wave sources, such as radio stations, TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones can affect powered control.
- 2. If unintended movement or brake release occurs, turn the power wheelchair OFF and do not operate until inspected, repaired, and/or replaced.
- 3. If the chair acts in an erratic manner, turn the power wheelchair OFF and do not operate until inspected, repaired, and/or replaced.
- 4. If the joystick stem is damaged, it can cause the chair to operate erratically; turn the power wheelchair OFF and do not operate until inspected, repaired, and/or replaced.
- 5. If any of the device cabling becomes frayed, cut, or disconnected in any way, turn the power Off and do not operate until inspected, repaired, and/or replaced.

General Warnings

WARNING!

- 1. Do not open or tamper with the CTRL+5 enclosure. Tampering could cause the internal circuit to fail.
- 2. Do not tamper with fasteners on the CTRL+5 unless performing routine maintenance.
- 3. Ensure mounting hardware is hand-tight.
- 4. Check mounting hardware every month to ensure it is hand-tight.
- 5. The wire harness from the CTRL+5 should not be loose or in the way of the seat functions. Ensure that wires are not pinched as the power chair is actuated.
- 6. This product is intended for a single user.

- 7. Always use parts and/or accessories that have been recommended or approved by Sunrise Medical when servicing this chair.
- 8. Never pull on cables. This can result in wires breaking inside the connector or harness. To remove a plug or connector, always grasp the plug or connector itself.
- 9. If a button on the CTRL+5 is accidentally pushed that function will become active.
- 10. Do not reuse any mounting hardware including fasteners.
- 11. Product labeling may fall off due to environmental heat, sun exposure, or moisture. Contact your Sunrise Medical authorized dealer for a new label if this occurs.
- 12. Ensure the powerchair is off when not in use.
- 13. Ensure the powerchair is off when operating a motor vehicle.
- 14. Ensure not to hit, lean on, or hang things from your CTRL+5.
- 15. Do not use your chair in a shower, pool, or other body of water.
- 16. Avoid excess moisture (for example, do not leave your device in a damp bathroom while taking a shower).
- 17. Dry your device immediately if it gets damp, or if you use water to clean it.
- 18. Avoid contact with salt or salty conditions as this may cause damage to the device.

User information

- · Congratulations on choosing a Switch-it product. Sunrise
- Medical's high-quality mobility products are designed to enhance independence and make your everyday life easier.
- · As a part of our ongoing product improvement initiative, Sunrise
- Medical reserves the right to change specifications and design without notice.

This user manual

- This user manual will help you to use and maintain your product safely.
- Dealer: This owner's manual must be given to the user of this device.
- Rider: Before using this device read this entire manual and save it for future reference.



Safety Warnings

Safety: Temperature

WARNING!

- 1. If you do not use the CTRL+5, ensure that it is not exposed to direct sunlight for lengthy periods. Certain parts of the CTRL+5, such as the keypad, the cable, and the enclosure can become hot or brittle if they have been exposed to full sunlight for too long. This may cause burns to the skin or render the CTRL+5 inoperable.
- 2. Extended sun exposure can result in product labels becoming discolored, illegible, or falling off.

Safety: Electromagnetic radiation

CAUTION!

- The standard version of your CTRL+5 device has been tested on the applicable requirements of electromagnetic radiation (EMC requirements). Despite these tests.
- It cannot be excluded that electromagnetic radiation may influence the CTRL+5.

For example:

- 1. Mobile telephones.
- 2. Large scale medical apparatus.
- 3. Other sources of electromagnetic radiation.
 - It cannot be excluded that the CTRL+5 may interfere with electromagnetic fields.

For example:

- 1. Shop doors.
- 2. Commercial and/or residential alarm systems.
- 3. Garage door openers.
 - If an EMC event occurs there may be unintended operation of your device.
 - In the unlikely event that such problems do occur, we request that you notify your Sunrise Medical authorized dealer immediately.

Safety: Choking hazard

DANGER! This mobility aid uses small parts which under certain circumstances may present a choking hazard to young children.

Safety: Assignable controls

 WARNING! It is possible to assign a function to an input control (buttons, jacks) to your seating system. If controls have been assigned to perform a dual or alternate function, ensure you know how each control operates. Please contact your Sunrise Medical authorized dealer or the Sunrise Medical technical service department if you do not receive this information. Failure to do so may result in product or property damage and/or injury.

Maintenance Tips

The wheelchair's lifespan is dependent on it being well maintained. For information concerning specific settings, maintenance, or repair work, please contact your Sunrise Medical authorized dealer.

Storage Tips:

WARNING!

- 1. Store your device in a clean, dry area. If you fail to do so, parts may rust or corrode.
- 2. Before using your device, ensure it is in proper working order.
- 3. If you store the device for more than three months, have it inspected by a Sunrise Medical authorized dealer before use.

Cleaning and disinfecting:

- 1. The CTRL+5 should be wiped down once per week.
- 2. If a foreign substance is present wipe down with a slightly damp (not wet) cloth.
- 3. Ensure that you dry all parts of the device prior to use.
- 4. Ensure you clean your device regularly. This will help you find loose or worn parts. If you find loose, damaged, or worn parts, replace them before use.

CAUTION! Ensure that you dry all parts of the device if it becomes wet or damp, such as when cleaning, or if it is used in a wet or damp environment.

CAUTION!

- 1. Do not use solvents, bleaches, or abrasives. synthetic detergents, wax polishes, or aerosols.
- 2. Disinfectants may be used in dilution as specified by the manufacturer.
- 3. Ensure surfaces are rinsed with clean water and dried thoroughly.

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 authorized/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 the seat and back slings to avoid micro-bacterial contamination
 with active agents according to your local infection protection law.

Conditions For Safe Storage

- Products should be stored in a dry place: at 20 75% Relative Humidity.
- Protect from direct sunlight and dust for long periods.
- Away from direct heat and at a temperature between 5°C (40°F) to 40°C (104°F)
- Position and stack the packaged products according to the "this side up" arrows on the packaging.
- If a package is high and narrow and therefore potentially unstable, ensure it is well secured on the pallet or in the racking, to prevent it from falling down.
- Do not stack anything on top of the packaged products when the "do not stack" mark on the packaging is shown.
- Products should never be stored outside and subject to the elements.

System Pre-check

Before each use perform the following:

- 1. Ensure the powerchair is on and charged.
- 2. Ensure buttons are programmed to the desired intended function.
- 3. To ensure buttons are programmed as intended, press each button to verify functionality.
- 4. Ensure the label above the keypad matches the functionality of the button.

Product Description

- The Switch-It CTRL+5® is a switch box device that plugs into the PG Drives R-Net system and allows for the set up of a maximum of ten different functions in ten discrete buttons (each switch is two buttons). The CTRL+5 switches are pre-programmed from the factory to default values for the actuators on the chairs. The Sunrise Medical patented Assignable Buttons option allows the button assignments to be changed to any of the Assignable Buttons functions to best suit each unique user.
- The system allows for having two standard CTRL+5 devices or one standard CTRL+5 and one CTRL+5 with Remote Seating on the same power wheelchair, if desired, for a total of up to 20 diff erent functions in twenty discrete buttons.
- The intended lifetime of this product is 5 years.

Technical Information

- 1. **Control Type:** Switched/Digital Power Wheelchair. Peripheral Function Control.
- 2. Activation Type: Mechanical switch
- 3. Feedback: Activation of programmed power wheelchair functions (i.e. seat functions).
- 4. Connector Type: R-net cable (male) to power wheelchair data bus connecting block
- 5. **Dimensions:** approximately 4.25-in (108 mm) W x 2.5-in (63.5 mm) H x 1.25-in (31.75 mm) D.
- 6. The USB port on the CTRL+5 provides up to 2.0 Amps

Compatibility

- 1. Penny & Giles R-Net Electronics required. Power wheelchairs must have an assignable buttons feature.
- 2. In order to use the Switch-It Remote Seating app with your powerchair you must have the Remote Seating enabled CTRL+5 (Part Numbers 247375 and 247376) and a complex seating module (CxSM, with software version 5.0 or greater).

Key Features

• The user may choose from two different CTRL+5 keypad versions: a flat push-button version (Fig. 1), or a toggle version (Fig. 2).





- Customizable access patented Assignable Button (option) technology and programming, with the use of the power wheelchair dealer's PC Programmer and dongle, provide the user with direct access to up to 20 diff erent functions (10 per CTRL+5).
- The CTRL+5 may be mounted in several ways for convenient access to seat function controls.
 - 1. Armrest mount (cover picture).
 - 2. Seat rail mount mounts similar to seat control in automobiles (Fig. 3).



3. Back cane mount — for attendant control of powerchair peripherals (Fig. 4).



4. The CTRL+5 has a built-in USB port for charging or powering peripheral devices (Fig. 5). The current is limited to 2.0 Amps, which is sufficient to charge most smartphones and tablets.



• The port is also on a pigtail so it can be moved from one side to the other depending on how the user prefers to access it.

Installation and Programming

Install the CTRL+5 in a location that is easy for the intended user to access. Only a Sunrise Medical authorized dealer should install this product.

Indicators

The behavior of the indicators is dependent on the seating module in the system.

1. With an Intelligent Seating Module (ISM) the indicators (Fig. 6) will all be green or yellow.

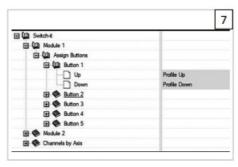


- a. Yellow indicates a drive inhibit is acve, and green indicates there is no drive inhibit.
- **b.** All white indicators mean the module has not connected with the powerchair.
- 2. With a Complex Seating Module (CxSM) the indicators (Fig. 6) are linked to the button below them.
 - a. When a button is assigned to any other option but seating, the light will be solid white.
 - b. When a button is assigned to a seating Memory axis, and that axis is running, the light will be blinking green.
 - c. When a button is assigned to a seating Memory axis and a drive inhibit occurs, the LED will change to the drive inhibit color once the axis is stopped.
 - **d.** When a button is assigned to a seating Memory axis other than a Memory axis, the drive inhibit color change will happen when the inhibit happens.
 - e. The LED color will be Red for a lockout drive inhibit.
 - f. When a button is assigned to any seating axis and no actuator channel within that axis has called for a drive inhibit, the LED color will be green.

Programming Assignable Buttons

- 1. Changing the assignable buttons of the CTRL+5 should only be done by a Sunrise Medical authorized dealer.
- 2. Connect the powerchair to the PC Programmer using a Programming Dongle.

- 3. Read Chair into the programmer by clicking on the blue down arrow in the toolbar, shown on the right.
- 4. Open the Switch-It folder and the module you wish to change. Figure 7 shows Button 1 of module 1 is assigned to Speed Up and Speed Down.



5. To change this, double-click on the current assignment. In this case, you would double-click on the "Speed Up" text. This brings up the window as shown in Figure 8.

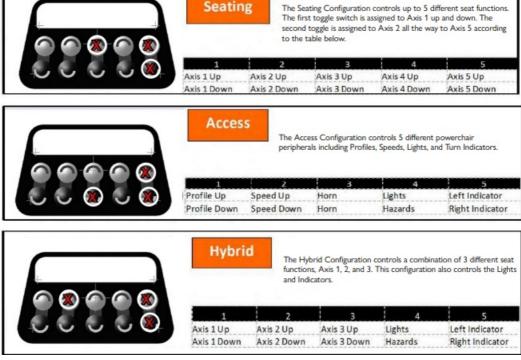




- 6. Now select the function you need that button to do by clicking the checkbox, then click OK.
- 7. Continue this process until all buttons have the desired function.
- 8. Now click the upload button, shown on the right.
- 9. Now power cycle the chair. Your new assignments are now updated.

Different Configurations Offered

1. Press the toggle buttons outlined with a red "X" as pictured and the following buttons will be reassigned according to the following tables.



- 2. To reset the CTRL+5 back to the memory positions that were assigned before the above changes, complete the following step:
 - a. Hold down the two far buttons and then press the top button in the fourth row as shown on the right.

 This will bring back the functionality of the CTRL+5, before the change.



Troubleshooting

- Issue: The powerchair hourglass shows on display and does not go away.
- Solution:
 - 1. Turn the chair off.
 - 2. Unplug CTRL+5.
 - 3. Plug in CTRL+5.
 - 4. Turn the chair on.
- Issue: New button assignments are not loading on the device.
- · Solution:
 - 1. Turn the chair off.
 - 2. Unplug CTRL+5.
 - 3. Plug in CTRL+5.
 - 4. Power cycle (turn off and turn back on) the chair and retry button assignments to ensure they function as intended.
- Issue: Control lights stay on when a chair is off.
- Solution:
 - 1. Turn the chair off.
 - 2. Unplug CTRL+5.

- 3. Plug in CTRL+5.
- 4. Turn the chair on.
- If you have any guestions please call your local Sunrise Medical branch (contact details on the back page).

Warranty

Each Switch-It device is carefully inspected and tested to provide peak performance. Every Switch-It device is covered under a limited, express warranty.

- 1. All electronic components are covered under warranty for twelve (12) months from the date of shipment, provided normal use, unless modified or damaged.
- 2. All mounting hardware is covered under warranty for twelve (12) months from the date of shipment, provided normal use, unless modified or damaged
- 3. All wearable items (covers, pads, etc.) are covered under warranty for three (3) months from the date of shipment, provided normal use, unless modified or damaged.
- Warranty claims should be processed through the nearest Sunrise Medical authorized dealer. A Return Authorization number must be obtained prior to returning the item for evaluation, along with details of the issue.
- Items returned for a warranty claim must be evaluated by Switch-It before warranty determination is made. Should a defect in materials or workmanship occur during the warranty period, and the item has not been modified or damaged, Switch-It will, at its option, rework or replace it without charge.
- Except for express warranties made herein, all other warranties, including implied warranties of merchantability and warranties of fitness for a particular purpose are excluded. There is no implied warranty beyond what is contained herein.
- Remedies for breach of express warranties herein are limited to rework or replacement of the goods. In no
 event shall damages for breach of any warranty include any consequential damages or exceed the cost of nonconforming goods sold.

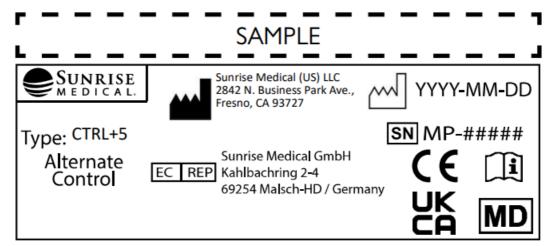
Туре:	Product Name/ SKU Number	MD	This symbol means Medical Device
SN	Serial Number	3	Manufacturer's address
XXXX-XX-XX	Date of Manufacture	EC REP	European Authorised Representative
C€	CE Mark	UK RP	UK Responsible Person
CA	UKCA Mark	CH REP	Swiss Representative's address
(I	Consult instructions for use		Importer's address

- The management system of SUNRISE MEDICAL Is certified to EN 15O 13485 and ISO 14001.
- We at SUNRISE MEDICAL have been awarded the ISO-13485 certificate, which affirms the quality of our products at every stage, from R&D to production.
- This product meets the requirements of EU and UK regulations. Options or accessories shown are available at extra cost.
- 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
- 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.

The wheelchair shall not be used in the case of:

- · Perception disorder
- Imbalance
- · Seating disability
- NOTE: General user advice. Not following these instructions may result in physical injury, damage to the
 product, or damage to the environment!
- 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.



- Sunrise Medical Limited
- · Thorns Road, Brierley Hill
- West Midlands, DY5 2LD
- UNITED KINGDOM
- ISO 7010-M002 Instruction manual/ booklet must be read! (Blue Icon)
- CEAs the manufacturer, SUNRISE MEDICAL, declares that this product conforms to the Medical Device Regulation (2017/745).
- CAAs the manufacturer, SUNRISE MEDICAL declares that the product conforms to the UK Medical Devices Regulation 2002 No. 618.

B4Me special adaptations

- Sunrise Medical strongly recommends that 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 is kept safely

stored for future reference.

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.
- All combinations listed have been validated to meet the General Safety and Performance Requirements, section 14.1 of the Medical Device Regulation 2017/745.
- Guidance on the combination, such as mounting, can be found at www.SunriseMedical.co.uk.
- In North America SUNRISE MEDICAL (US) LLC
- Customer Service Department
- 2842 N. Business Park Avenue
- Fresno, CA 93727 USA
- <u>800-333-4000</u>
- 800-300-7502
- www.SunriseMedical.com

In the United Kingdom: SUNRISE MEDICAL LTD

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



- www.SunriseMedical.com/register
- Be sure to register your product, and let us know if you change your address.
- This will allow us to keep you up to date with information about safety, new products, and options to increase
 your use and enjoyment of this product.
- You can also register your product at: www.SunriseMedical.com/register

FOR ANSWERS TO YOUR QUESTIONS

 Your Sunrise Medical authorized dealer knows your wheelchair best and can answer most of your questions about system safety, use, and maintenance.

For future reference, please fill in the following:

• D	ealer:
۰ ۵	ddress:
• T	elephone:
• S	erial:
• D	ate/Purchased:

ADDITIONAL INFORMATION YOU SHOULD KNOW

• No component of this chair was made with Natural Rubber Latex.

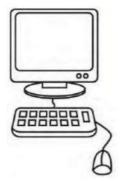
DISPOSAL AND RECYCLING INFORMATION

• When this product reaches the end of its life, please take it to an approved collection or recycling point designated by your local or state government.

- This product is manufactured using a variety of materials. Your product should not be disposed of as ordinary household waste.
- You should dispose of your product properly, according to local laws and regulations. Most materials that are used in the construction of this product are fully recyclable.
- The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is disposed of in a manner that protects the environment.
- Ensure you are the legal owner of the product prior to arranging for the product disposal in accordance with the above recommendations.



• If you are visually impaired, this document can be viewed in PDF format at www.SunriseMedical.com.



- Dealer signature and stamp--
- · 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
- Faks: +47 66 96 38 80
- 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 Apps
- Mårkærvej 5-9
- 2630 Taastrup
- Denmark
- +45 70 22 43 49
- info@sunrisemedical.dk
- Sunrisemedical.dk
- · Sunrise Medical Pty. Ltd.
- 11 Daniel Street, Wetherill Park,
- NSW 2164,

- Australia
- Phone: 9678 6600,
- Orders Fax: 9678 6655,
- Admin Fax: 9831 2244.
- Australia
- www.sunrisemedical.com.au
- Sunrise Medical (US) LLC
- North American Headquarters
- 2842 N. Business Park Avenue
- Fresno, CA, 93727, USA
- 800-333-4000
- <u>800-300-7502</u>
- www.SunriseMedical.com

Documents / Resources



<u>SWITCH-IT CTRL+5 Switch for Wheelchairs</u> [pdf] Owner's Manual CTRL 5 Switch for Wheelchairs, CTRL 5, Switch for Wheelchairs, Wheelchairs

References

- Kørestole, rollatorer, siddesystemer | Sunrise Medical
- @ Oficiální stránky spoleÄnosti Medicco s.r.o. | Sunrise Medical
- © <u>Wózki manualne, elektryczne i dzieciÄ™ce. | Sunrise Medical</u>
- Pollstühle, elektrische Mobilitätshilfen uvm. | Sunrise Medical

- Wheelchairs, Mobility Scooters & Custom Seating | Sunrise Medical
- Pollstühle, Rollstuhlzubehör & Elektromobile | Sunrise Medical
- Sillas de ruedas, grúas y scooters eléctricos | Sunrise Medical
- @ Wheelchairs, Mobility Scooters, Rollators | Sunrise Medical
- Fauteuils roulants, scooters & positionnement | Sunrise Medical
- @ Carrozzine, postura e ausili per la mobilità | Sunrise Medical
- Polstoelen | Zitkussens | Scootmobielen | Sunrise Medical
- <u>Hjem | Sunrise Medical</u>
- Paulistolar, sittande & scooter | Sunrise Medical
- User Manual

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