



247780 Rev.E

Switch-It[®] CTRL+5[®] Owner's Manual

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:

**in North America:
SUNRISE MEDICAL (US) LLC**

Customer Service Department
2842 N. Business Park Avenue
Fresno, CA 93727 USA
(800) 333-4000
(800) 300-7502
www.SunriseMedical.com

**in United Kingdom:
SUNRISE MEDICAL LTD.**

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Thorns Road
Brierley Hill
West Midlands
DY5 2LD
England
Phone: 0845 605 66 88
Fax: 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:

Dealer: _____

Address: _____

Telephone: _____

Serial #: _____ Date/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 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

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

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.



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 environment heat, sun exposure, or moisture. Contact your Sunrise Medical authorized dealer for a new label if this occurs.
12. Ensure powerchair is off when not in use.
13. Ensure 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 wet or 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 of time. 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 with respect to electromagnetic radiation (EMC requirements). In spite of these tests: It cannot be excluded that electromagnetic radiation may have an influence on 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 what 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 dependant 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 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, 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 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.

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.
- Product should never be stored outside and subject to the elements.

System Pre-check

Before each use perform the following:

1. Ensure 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 label above keypad matches the functionality of the button.

A. 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 different functions in twenty discrete buttons.

The intended lifetime of this product is 5 years.

B. 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. USB port on the CTRL+5 provides up to 2.0 Amps

C. Compatibility

1. Penny & Giles R-Net Electronics required. Power wheelchair must have 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).

D. 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 use of the power wheelchair dealer's PC Programmer and dongle, provide the user with direct access to up to 20 different 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).

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.



1



2



3



4



5

E. 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.

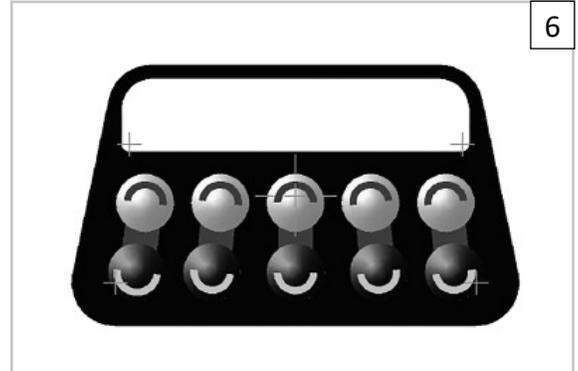
Indicators

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

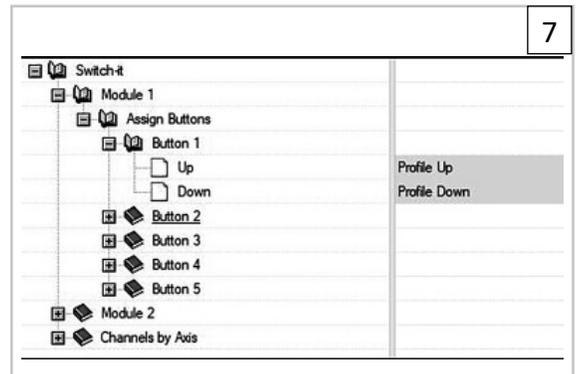
1. With an Intelligent Seating Module (ISM) the indicators (Fig. 6) will all be green or yellow.
 - a. Yellow indicates a drive inhibit is active, and green indicates there is no drive inhibit.
 - b. All white indicators means the module has not authenticated with the powerchair.
2. With a Complex Seating 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 powerchair to PC Programmer using a Programming Dongle.
3. Read Chair into the programmer by clicking on the blue down arrow in the toolbar, shown at 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 at right.
9. Now power cycle the chair. Your new assignments are now updated.



6



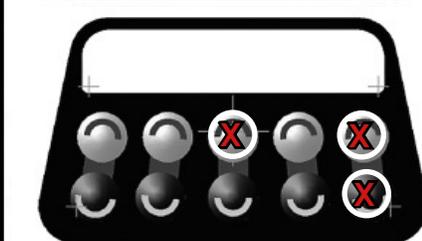
7



8

Different Configurations Offered

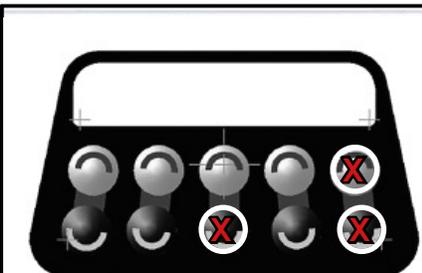
1. Press the toggle buttons outlined with a red "X" as pictured and the following buttons will be reassigned according to the following tables.



Seating

The Seating Configuration controls up to 5 different seat functions. The first toggle switch is assigned to Axis 1 up and down. The second toggle is assigned to Axis 2 all the way to Axis 5 according to the table below.

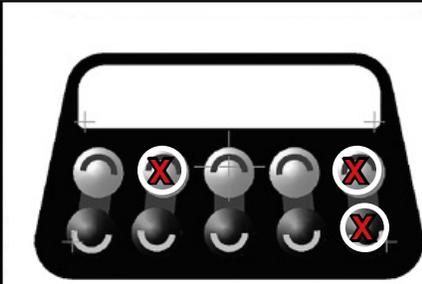
1	2	3	4	5
Axis 1 Up	Axis 2 Up	Axis 3 Up	Axis 4 Up	Axis 5 Up
Axis 1 Down	Axis 2 Down	Axis 3 Down	Axis 4 Down	Axis 5 Down



Access

The Access Configuration controls 5 different powerchair peripherals including Profiles, Speeds, Lights, and Turn Indicators.

1	2	3	4	5
Profile Up	Speed Up	Horn	Lights	Left Indicator
Profile Down	Speed Down	Horn	Hazards	Right Indicator

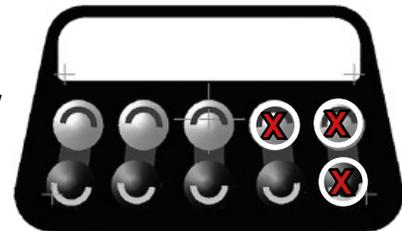


Hybrid

The Hybrid Configuration controls a combination of 3 different seat functions, Axis 1, 2, and 3. This configuration also controls the Lights and Indicators.

1	2	3	4	5
Axis 1 Up	Axis 2 Up	Axis 3 Up	Lights	Left Indicator
Axis 1 Down	Axis 2 Down	Axis 3 Down	Hazards	Right Indicator

2. To reset the CTRL+5 back to the memory positions that were assigned prior to 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 at right. This will bring back the functionality of the CTRL+5, before the change.



F. Troubleshooting

Issue: Powerchair hourglass shows on display and does not go away.

Solution:

1. Turn chair off.
2. Unplug CTRL+5.
3. Plug in CTRL+5.
4. Turn chair on.

Issue: New button assignments are not loading on the device.

Solution:

1. Turn 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 chair is off.

Solution:

1. Turn chair off.
2. Unplug CTRL+5.
3. Plug in CTRL+5.
4. Turn chair on.

If you have any questions please call your local Sunrise Medical branch (contact details on the back page).

G. 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 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 non-conforming goods sold.

Type:	Product Name/ SKU Number		This symbol means Medical Device
	Serial Number		Manufacturer's address
 xxxx-xx-xx	Date of Manufacture		European Authorised Representative
	CE Mark		UK Responsible Person
	UKCA Mark		Swiss Representative's address
	Consult instructions for use		Importer's address

SAMPLE			
	Sunrise Medical (US) LLC 2842 Business Park Ave, Fresno, CA 93727	 YYYY-MM-DD	
Type: CTRL+5 Alternate Control		Sunrise Medical GmbH Kahlbachring 2-4 69254 Malsch-HD / Germany	
		Sunrise Medical Limited Thorns Road, Brierley Hill West Midlands, DY5 2LD UNITED KINGDOM	  

The management system of SUNRISE MEDICAL is certified to EN ISO 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 in accordance with 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 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.

 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.

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.

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.





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