

PowerSTROLL[®]



Covers:
LAWC003 - Lightweight PowerSTROLL single wheel
LAWC010 - Lightweight PowerSTROLL dual wheel
Wheelchair not included

Lightweight PowerSTROLL
Owner's Handbook

CE
drive[™]

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Introduction

- The PowerStroll is designed as an aid to a wheelchair attendant providing power to aid pushing in otherwise strenuous situations such as up steep hills, etc.
 - The PowerStroll is designed to work in conjunction with most wheelchairs with seat widths between 16" and 20" (40cm - 50cm). The PowerStroll will also fit some narrow width wheelchairs such as Drive Medical's Lightweight Aluminium.
 - The PowerStroll is to be controlled by an attendant with a manual wheelchair and user up to a combined weight of 18 stone (115kg).
 - The PowerStroll uses a 12V 20Ah battery, and has a range of up to ten miles between charges.
 - The PowerStroll is manufactured by Drive Medical Ltd and is CE marked. Drive Medical Ltd is an ISO 9001 and ISO 13485 certified Medical Device Manufacturer.
 - Two models are available:
 - ✓ A single wheel with forward only
 - ✓ A dual wheel with forward and reverse
- The PowerStroll must not be used solely by the wheelchair user under any circumstances.
 - Ensure the PowerStroll is installed as far to the rear of the wheelchair as is comfortable for the attendant to do so.
 - Operate the PowerStroll at a speed that is both comfortable for the operator and wheelchair user.
 - When connecting / disconnecting the battery from the motor or the charger make sure both the power to the charger and PowerStroll handcontrol are switched off.
 - Ensure the PowerStroll is secured in transit. It is also recommended that the battery is disconnected.
 - Ensure that the battery is charged only with the battery charger supplied with the PowerStroll. Using another battery charger may cause damage or injury.
 - Whilst the PowerStroll has been EMC tested, it may be susceptible to certain types of electromagnetic waves. Avoid close proximity to mobile phones, commercial broadcast towers and emergency services' radios. Other household appliances are not known to pose any such risk. If involuntary movement occurs, switch off the PowerStroll and report this to your dealer.
 - The PowerStroll should not be used when it is snowing or during heavy rain. This may cause damage to the PowerStroll. The PowerStroll should not be exposed to damp conditions or direct sunlight.
 - Note: Wheelchairs fitted with attendant cable brakes. On such wheelchairs, the attendant brake levers should be removed prior to fitting. If the attendant brakes do not have a separate parking brake facility, then parking brakes should be added to the wheelchair.

Safety Procedures

Parts Description



Installation Instructions



1. Handset Installation

Loosen both knobs on the handset.

Squeeze the crocodile clip on the handset and apply to the push handle as shown. Secure the clip by turning the outer knob clockwise.

Tilt the handset to the required angle then tighten the inner knob clockwise to secure.



2. Bracket Installation

Install both brackets on the bottom horizontal tubing of the wheelchair, using an Allen Key (as shown in the photo above)

Ensure that the screws are sufficiently tight and do not rotate on the tubing. Ensure that the hole on each bracket is horizontal and level with each other.



3. Powerpack Installation

Feed the telescopic bar through the front end of the powerpack. Slacken the other tristar knob on the bar and insert one end of the bar in to the bracket (as shown above). Slide the telescopic section out until the end of the bar locates fully in the hole on the other bracket. Position the powerpack centrally between the wheelchair. Tighten the tristar knob to secure the installation.



5. Final Connection

Connect the cable from the powerpack in to the underneath of the handset (as shown previously).

Place the top loop of the lift-up strap around the opposite push handle to the handset.

Disassembly and Transportation

1. Switch the PowerStroll off at the ignition.
2. Disconnect / unclip the powerpack connector from underneath the handset.
3. Remove the lift-up strap from the push handle.
4. Disconnect the red and black connector on battery pack from the red and black connector on the powerpack. Lift out of the battery tray using the handle.
5. Slacken the tristar knobs and slide the telescopic bar inwards to remove the powerpack from the wheelchair.

Notes:

- The battery supplied with the PowerStroll is classified as safe for air travel by compliance with IATA special provision A67.
- The battery pack has a fabric handle to make it easy to carry.



4. Battery Pack Installation

Place the battery in to the tray on top of the powerpack, ensuring the pack handle is on the left hand side of the powerpack (as shown above)

Connect the red and black connector on the battery pack to the red and black connector on the powerpack (as shown above)



Battery Charging and Care

Follow the procedure below step by step:

1. Switch of the PowerStroll at the ignition.
2. Disconnect the red and black connector on battery pack from the red and black connector on the powerpack. Lift out of the battery tray using the handle.
3. Plug the charger's power cord into the mains.
4. Plug the charger's red and black connector into the red and black connector from the battery pack
5. Switch on the plug socket.
6. The charger's LED will illuminate orange to indicate the batteries are charging. The charging duration is about 8 hours. To ensure optimum performance a 12-hour charge is recommended.

7. The orange LED will turn green when charging is complete.
8. Turn off the charger, disconnect the power cord and the round plug from the battery pack.
- 9.



Suggestion

1. Do not disconnect the charger cord if charging is not completed. Battery longevity will be seriously reduced if the battery is repeatedly used without being fully charged. Therefore be sure to charge the battery fully every time.
2. Always complete the charging until the LED light turns green. NEVER stop charging before it is complete.
3. When fully charged, the battery charger will still trickle charge the battery to ensure optimum range.
4. If you do not use your powerpack for a long time, it should be charged at least every week to keep the battery in a fully usable condition.
5. The ambient temperature will affect charging time. Charging time will be longer in the winter.
6. After charging, do not leave the charger socket plugged in to the scooter, as this will cause a power drain on the powerpack and temporarily reduce its range.
7. The batteries carry a twelve-month manufacturer's warranty. This warranty only covers issues relating to manufacturing faults, and not faults relating to failure to recharge the batteries as instructed above.



Attention: Please follow the rules below to avoid accidents while charging.

1. Only use the supplied charger, and recharge the battery to its full capacity every time. You may damage the battery if you use a charger which is not to the correct specification.
2. Please charge in a well-ventilated space where there is no direct exposure to the sunlight. Do not charge in surroundings where it is humid, raining or dewy.

3. Never disassemble or modify the charger.
4. Do not charge in temperatures less than -10°C or higher than +50°C as the charger may not function correctly and batteries may become damaged.



Warning

1. Keep away from flammable objects while charging as this may lead to fire or battery explosion.
2. Do not smoke while charging as the battery may release hydrogen gas. Always charge your battery in a well-ventilated space.
3. Never connect or disconnect the plug or cord with wet hands whilst charging. Do not connect or disconnect the plug or cord when they are wet, it may lead to electric shock.

Charger

The charger supplied has an LED which changes colour depending on its status:

- If the LED is lit ORANGE then the charger is switched on and charging
- If the LED is lit GREEN then the charger is switched on and has finished the bulk of its charging and the batteries can be used. However, we recommend that you leave the charger charging for a couple of hours after the green LED has lit. This will maintain and probably increase the capacity of your batteries.
- The LED will also illuminate GREEN if the charger is switched on but not connected to the batteries.

Batteries

- Do not expose the battery pack to temperatures below -10° or above 50°C when charging or storing.
- The batteries are maintenance free and there is no need to inspect the battery liquid or refill.
- You are required to charge the batteries on a regular basis. Even if the powerpack is not used, it should be charged at least once a week.
- The battery pack contains one 12V 20ah batteries.
- The battery supplied with the PowerStroll is classified as safe for air travel by compliance with IATA special provision A67.

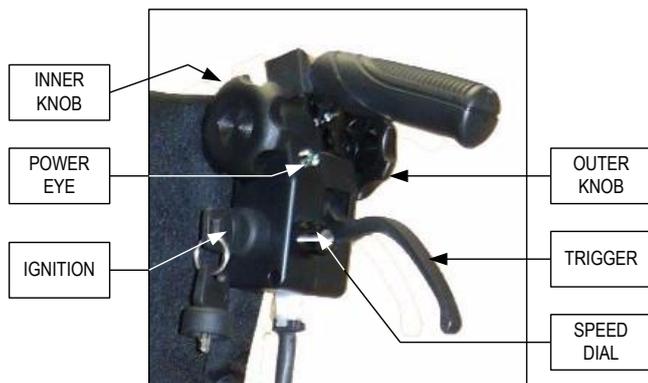
Charging the Batteries

- Using the charger supplied, the charging duration is about 8 hours.
- However, to ensure optimum performance we recommend a 12-hour charge.
- We also recommend that the batteries are not charged for more than 24 hours.

Operating the PowerStroll

- **Reversing (Single Wheel).** The PowerStroll comes with a lift-up strap to allow the wheelchair to reverse. Lift up the PowerStroll with the strap and hook the second loop around the push handle. Please note that failure to lift up the PowerStroll when reversing may cause the pack to flip over.
- **Reversing (Dual Wheel).** See section on “Ignition - Dual Wheel Version”.
- **Maximum Speed.** Always set a maximum speed which you are comfortable walking with.
- **Pushing the Wheelchair When Not In Use.** We recommend that the powerpack is restrained with the lift-up strap when not in use.

Handset Operation



- **Ignition - Single Wheel Version.**

The single wheel version of the PowerStroll has a key ignition. Insert the key and turn clockwise to switch the PowerStroll on. Turn the key anticlockwise to switch the PowerStroll off. The key can be removed when the unit is switched off.

Always ensure the PowerStroll is switched off when not in use.

Please note there is a 2-second delay when starting up the PowerStroll before the wheel will move. Wait 2 seconds before squeezing the trigger.

- **Ignition - Dual Wheel Version.**

The dual wheel version of the PowerStroll has a three position button to power up the motor.

To allow the PowerStroll to move forward press the front of the button (marked “I”).

To allow the PowerStroll to move backwards press the rear of the button (marked “II”).

To switch off the PowerStroll press the button so the switch is in the middle position (marked “O”).

Please note there is a 2-second delay when starting up the PowerStroll before the wheel will move. Wait 2 seconds before squeezing the trigger.

Always ensure the PowerStroll is switched off when not in use.

- **Trigger** - Squeeze the trigger to propel the PowerStroll. The more the trigger is squeezed, the faster the PowerStroll will travel. Release the trigger to stop the PowerStroll.
- **Speed Dial** - Turn the dial clockwise to increase the maximum speed of the PowerStroll. Turn the dial anticlockwise to reduce the PowerStroll's maximum speed.
- **Power Eye** - This is lit green when the PowerStroll is switched on.
- **Outer Knob** - This is used to secure the clip holding the handset to the push handle
- **Inner Knob** - This is used to determine the angle of the handset.

Specification

Weight: 7.5kg (without battery)
6.5kg (battery pack)
14kg (total weight)

- Max speed: 3mph / 5kph
- Max gradient: 6°
- Cruising range up to 10 miles (16km)
- Weight capacity:
21 stone (115kg) including wheelchair & user
- Motor: 12V 100W D.C.
- Battery: 12V 20ah Sealed Lead Acid
- Charger: 3A 12V output

Troubleshooting

Wheelchair does not move when trigger is pressed.

Possible Solutions:

- Check the PowerStroll is switched on.
- Check the battery is fully charged.
- Check the connection between the battery and motor is correct.
- Check the wheelchair brakes are not applied.
- Check the drive wheel is in contact with the ground.

Wheelchair is difficult to push manually.

Possible Solutions:

- Check the wheelchair brakes are not applied.
- Remove PowerStroll.

The PowerStroll is too fast / slow.

- Try varying the speed with speed dial.
- Try recharging the batteries (if too slow).
- Check the wheelchair brakes are not applied.

Compatibility with Drive Wheelchairs

The PowerStrolls are compatible with following Drive wheelchairs:

Budget Steel Wheelchairs

(product codes: CS1142SP and CS1142TS)

Steel Chair Wheelchairs – self propel

(product codes: SSP16, SSP18, SSP18E and SUSP18)

Steel Chair Wheelchairs – transit

(product codes: STS16, STS18, STS18E and SUTS18)

Lightweight Aluminium Wheelchairs

(product codes: LAWCo01, LAWCo02*, LAWCo07, LAWCo08*, LAWCo11, LAWCo12*)

Standard Aluminium Wheelchairs

(product codes: XSAWCSP18, XSAWCTS18*, XSAWCSP20 and XSAWCTS20*)

Super Deluxe Wheelchairs

(product codes: XSSDSP16/18/20 & XSTS16/18/20*)

Spirit Wheelchairs (product code: XSES18)

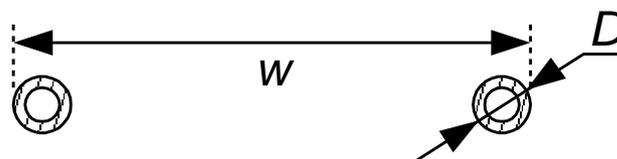
- * The wheelchairs marked with '*' will require the attendant brake levers and cable removing from the wheelchair prior to use. The actual brake unit can still be used as a parking brake with these parts removed.

The above list is current at time of printing, and the omission of a Drive wheelchair from this list does not mean that the PowerStroll is incompatible with it. For more information please contact your local Drive Medical dealer.

Compatibility with Other Wheelchairs

The PowerStroll is suitable for most folding wheelchairs:

- with a distance between tubing edges (W) of 14.5" to 20" (37cm – 50cm). This is usually, but not always, the same as the wheelchair seat width
- a round tubing diameter (D) between 7/8" – 1" (22mm – 25mm)



Please note that you should check with your dealer and/or the wheelchair manufacturer. Drive Medical does not accept any responsibility for other manufacturer's wheelchairs, and in some circumstances a risk assessment should be carried out prior to installation.

Manufacturer Details



Drive Medical Ltd,
Ainley's Industrial Estate,
Elland, GB HX5 9JP.

Warranty

To improve the safety and lifespan of your PowerStroll, it is recommended that you have it serviced on a regular basis. Recommended Service Schedules for PowerStrolls are available to service agents.

There is a comprehensive twelve-month warranty from the date on which your new PowerStroll is delivered. The warranty covers the PowerStroll for replacement parts during this period. For more detail, please see the warranty conditions below:

1. Any work or replacement part installation must be carried out by an authorised Drive Medical dealer / service agent.
2. To apply the warranty should your PowerStroll require attention please contact the outlet from which you purchased the PowerStroll.
3. Should any part of the PowerStroll require repair or full or part replacement, as a result of a manufacturing or material defect within the warranty period, parts will be supplied free of charge.

Note: The guarantee is not transferable.

4. Any repaired or replaced parts will be covered by the balance of the warranty period on the PowerStroll.
5. Parts replaced after the original warranty has expired will be covered by a three-month warranty.

6. Consumable items supplied will not generally be covered during the normal warranty period unless such items require repair or replacement clearly as a direct result of a manufacturing or material defect. Such items include (among others): upholstery and tyres.
7. The above warranty conditions apply to a brand new PowerStrolls. Ex-demonstration PowerStrolls supplied directly by Drive Medical carry a six-month warranty period. If you are unsure whether your PowerStroll is covered contact your dealer.
8. Under normal circumstances, no responsibility will be accepted where the PowerStroll has required assistance as a direct result of:
 - a. the PowerStroll part not having been maintained in accordance with the manufacturers recommendations
 - b. failure to use the manufacturer's specified parts
 - c. the PowerStroll or part having been damaged due to neglect, accident or improper use
 - d. the PowerStroll or part having been altered from the manufacturer's specification or repairs having been attempted before the dealer is notified

In the event of your PowerStroll requiring attention, please contact your service agent / dealer and give all relevant details so they can act quickly.

The manufacturer reserves the right to alter without notice any weights, measurements or other technical data shown in this manual. All figures, measurements and capacities shown in this manual are approximate and do not constitute specifications.

This warranty does not affect your statutory rights.