

POWERASSIST

OWNERS MANUAL



Pride[®]
Mobility Products
Australia Pty. Ltd.

— LIVE YOUR BEST[®] —

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INTRODUCTION

Manufactured by Wu's Tech Co. Ltd.
3 Fl. No. 112 Sec. 2, Chung-Shan N. Rd., Taipei, Taiwan, R.O.C.

Imported by Pride Mobility Products Australia Pty. Ltd.
20-24 Apollo Drive, Hallam, Victoria, Australia 3803
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The PowerAssist 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 PowerAssist features some ingenious concepts to help the installation and operation of the device. Some of these are covered by a pending patent.

The PowerAssist is designed to work in conjunction with most wheelchairs with seat widths between 16" and 22".

The PowerAssist is to be controlled by an attendant with a manual wheelchair and user up to a combined weight of 250lbs (115kg).

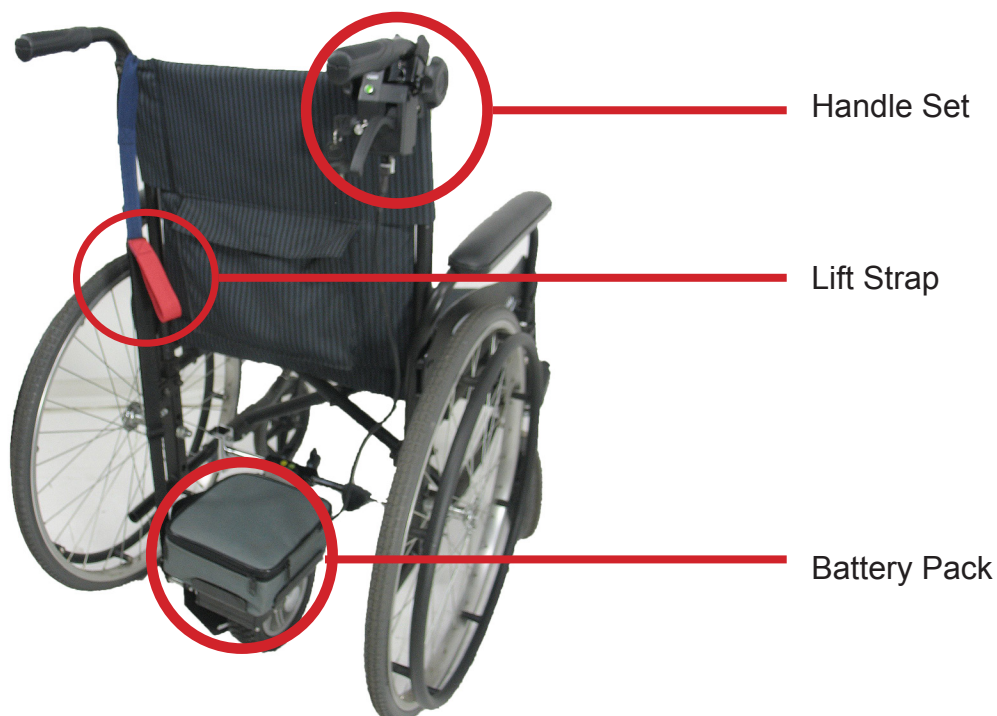
The PowerAssist uses a 12V 18AH battery pack, please use the WU'S charger only, and recharge the battery to its full capacity every time.

SAFETY PROCEDURES

The PowerAssist must not be used solely by the wheelchair user under any circumstances.

- Ensure the PowerAssist is installed as far to the rear of the wheelchair as is comfortable for the attendant to do so.
- When connecting / disconnecting the battery from the motor or the charger make sure both the power to the charger and PowerAssist handle control are switched off.
- 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
- Ensure the PowerAssist 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 PowerAssist. Using another battery charger may cause damage or injury.
- The PowerAssist 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 of the PowerAssist and report this to your dealer.
- The PowerAssist should not be used when it is snowing or during heavy rain. This may cause damage to the PowerAssist. The PowerAssist should not be exposed to damp conditions or direct sunlight.

PARTS DESCRIPTION



INSTALLATION INSTRUCTIONS

1. HANDLE INSTALLATION

- a. Loosen both knobs on the handset.
- b. Squeeze the crocodile clip on the handset and apply to the push handle as shown.
- c. Secure the clip by turning the outer knob clockwise.
- d. Tilt the handset to the required angle then tighten the inner knob clockwise to secure.



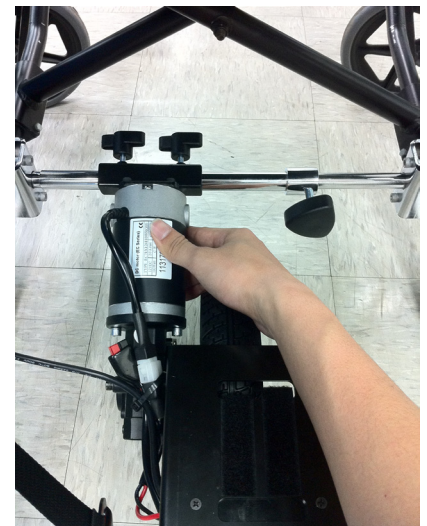
2. BRACKET INSTALLATION

- a. Install both brackets on the bottom horizontal tubing of the wheelchair, using an Allen Key.
- b. Ensure that the screws are sufficiently tight and do not rotate on the tubing.



3. POWERPACK INSTALLATION

- a. Feed the telescopic bar through the front end of the PowerAssist. Loosen the tristar knob on the bar and adjust to the correct length.
- b. Tighten the knobs on the bar and at the front of PowerAssist.
- c. Place the two ends of the bar on the rear of the Brackets, then push the powerpack forward until it locks in position.



4. BATTERY INSTALLATION

Place the battery pack in to the battery bracket as shown in the photograph.



5. FINAL CONNECTION

a. Connect the cable from the powerpack in to the underneath of the handset. Place the top loop of the lift-up strap around the opposite push handle to the handset.



b. Connect the cable from the battery pack in to the system connector.



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

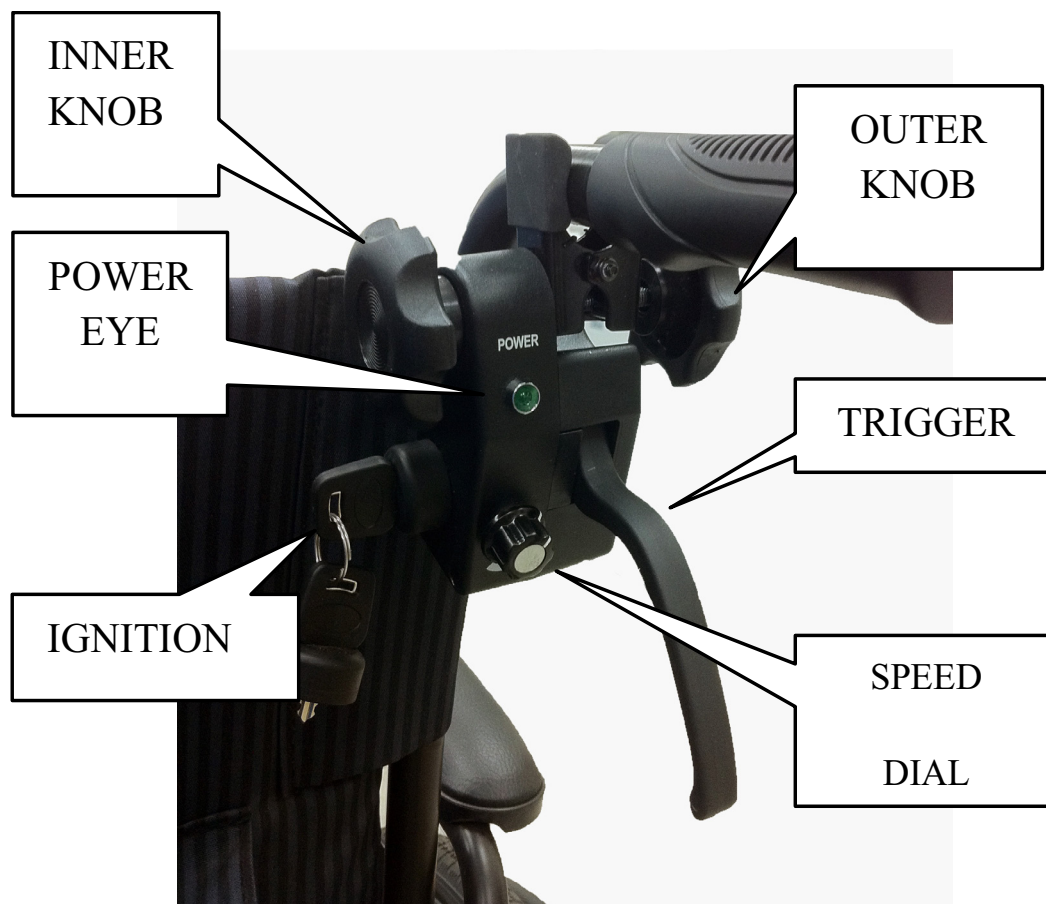
d. Loosen the screw at the frame firstly. Then adjust the battery pack height by sliding the frame.



OPERATING THE POWERASSIST

- Lift-up strap. The PowerAssist comes with a lift-up strap to allow the wheelchair to move when there is no power. Lift up the PowerAssist with the red strap and hook the second loop around the push handle. Please note that failure to lift up the PowerAssist when reversing may cause the pack to flip over.
- 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.
- Ignition – Dual Wheel Version. The dual wheel version of the PowerAssist has a three position button to power up the motor. To allow the PowerAssist to move forward press the front of the button (marked “I”). To allow the PowerAssist to move backwards press the rear of the button (marked “II”). To switch off the PowerAssist press the button so the switch is in the middle position (marked “0”).
- Please note there is a 2-second delay when starting up the PowerAssist before the wheel will move. Wait 2 seconds before squeezing the trigger.
- Always ensure the PowerAssist is switched off when not in use.

HANDLESET OPERATION



Trigger – Squeeze the trigger to propel the PowerAssist. The more the trigger is squeezed, the faster the PowerAssist will travel. Release the trigger to stop the PowerAssist

Speed Dial – Turn the dial clockwise to increase the maximum speed of the PowerAssist. Turn the dial anticlockwise to reduce the PowerAssist's maximum speed.

Inner Knob – This is used to determine the angle of the handle set.

Outer Knob – This is used to secure the clip holding the handset to the push handle.

Power Eye – This is lit green when the PowerAssist is switched on.

DISASSEMBLY & TRANSPORTATION

1. Switch the PowerAssist off at the ignition.
2. Disconnect / unclip the powerpack connector from underneath the handset and battery pack.
3. Remove the lift-up strap from the push handle.
4. Lift the battery pack out of the battery tray.
5. Remove the powerpack by loosen the tristar knob(see the photo below)

Notes:

- The battery pack and power pack have fabric handles to make them easier to carry.



BATTERY CHARGING AND CARE

Follow the procedure below step by step:

1. Turn the power switch to (OFF)
2. Lift out the battery pack using the handle on the pack.
3. Plug the charger's power cord into the mains.
4. Plug the charger's round plug into the charging socket of 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

Suggestions

1. Do not disconnect the charger cord if charging is not completed. The battery life will be seriously shortened or decayed 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.

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. Never disassemble or modify the charger.
3. 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 or raining.
4. Do not charge in temperatures less than -10°C or higher than $+50^{\circ}\text{C}$ as the charger may not work well & 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 with water.
- 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 18ah batteries.
- The battery supplied with the Power Assist 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.
- When only two light indications shown on the battery meter, it will start to flash as a reminder to charge the batteries.

TROUBLESHOOTING

Wheelchair does not move when trigger is pressed Possible Solutions:

- Check the PowerAssist 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 PowerAssist.

The PowerAssist 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

SPECIFICATIONS



- Weight: 14kg (weight with battery)
6.5kg (battery pack)
- Max speed: 5 km/h
- Max gradient: 6°
- Weight capacity: (115kg) including wheel chair & user
- Motor: 12V 100W 4100RPM
- Battery: 12V 18ah Sealed Lead Acid
- Charger: 3A 12V output

WARRANTY

To improve the safety and lifespan of your PowerAssist it is recommended that you have it serviced on a regular basis.

There is a comprehensive twelve-month warranty from the date on which your new PowerAssist is delivered. The warranty covers the PowerAssist 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 authorized service agent.
2. To apply the warranty should your PowerAssist require attention please contact the outlet from which you purchased the PowerAssist.
3. Should any part of the PowerAssist 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 PowerAssist.
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: upholstery and tires.
7. The above warranty conditions apply to a brand new PowerAssist. Ex-demonstration PowerAssist supplied directly by Pride carries a six-month warranty period. If you are unsure whether your PowerAssist is covered contact your dealer.
8. Under normal circumstances, no responsibility will be accepted where the PowerAssist has required repair as a direct result of:
 - a. the PowerAssist part not having been maintained in accordance with the manufacturers recommendation
 - b. failure to use the manufacturer's specified parts
 - c. the PowerAssist or part having been damaged due to neglect accident or improper use
 - d. the PowerAssist 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 PowerAssist 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.

Our goods come with guarantees that cannot be excluded under the Australian Consumer law. You are entitled to a replacement or refund for a major failure and for compensation for any foreseeable loss or damage. You are also entitled to have the goods repaired if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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