

# POWER PUSH



## COMMERCIAL ATTENDANT POWERCHAIR USER MANUAL



Congratulations on the purchase of your new Power Push Powerchair! The advanced ultra light-weight design and streamlined design ensures many years of enhanced trouble-free mobility. Correct use improves your mobility and quality of life.

## Your safety is important to us.

Please read this owner's manual before using the powerchair. Improper use of the- could result in harm, injury or traffic accidents. Correct use improves your mobility and quality of life.

This owner's manual includes operation instructions for every aspect of the power-chair.

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## 1.0 SAFETY GUIDELINES



**WARNING!** An authorized Provider or qualified technician must perform the initial setup of this powerchair and must perform all of the procedures in this manual.

The symbols below are used throughout this owner's manual and on the powerchair to identify warnings and important information. It is very important for you to read them and understand them completely.



**WARNING!** Indicates a hazardous situation that could result in serious injury or death if it is not avoided.



**CAUTION!** Indicates a hazardous situation that could result in minor or slight injury if it is not avoided.



**IMPORTANT!** Indicates a hazardous situation that could result in damage to property if it is not avoided.



**USEFUL TIP!** Recommendations and information for efficient, trouble-free use.

Your powerchair is a state-of-the-art life-enhancement device designed to increase mobility. We provide an extensive variety of products to best fit the individual needs of the powerchair user. Please be aware that the final selection and purchasing decision regarding the type of powerchair to be used is the responsibility of the powerchair user who is capable of making such a decision and his/her health care professional (i.e., medical doctor, physical therapist, etc.).

The contents of this manual are based on the expectation that a mobility device expert has properly fitted the powerchair to the user and has assisted the prescribing health care professional and/or the authorized provider in the instruction process for the use of the product.

There are certain situations, including some medical conditions, where the powerchair user will need to practice operating the powerchair in the presence of a trained attendant. A trained attendant can be defined as a family member or care professional specially trained in assisting a powerchair user in various daily living activities.

As you begin using your powerchair during daily activities you will probably encounter situations in which you will need some practice. Simply take your time and you will soon be in full and confident control when using the powerchair.

Additional general information can be found on the supplemental information sheets and booklets included in your Owner's Package. Please fully read and review the information and keep it readily available for future reference.

## 2.0 PRE-RIDE SAFETY CHECKS

Get to know the feel of your powerchair and its capabilities. We recommend that you perform a safety check before each use to make sure your powerchair operates smoothly and safely.

### Perform the following inspections prior to using your Travel Powerchair

- Check the condition of the tyres. Make sure they are not damaged or excessively worn and that tyre pressure is at the correct 35psi.
- Check all electrical connections. Make sure they are tight and not corroded.
- Check the battery condition meter to ensure the batteries are fully charged.
- Check that brakes are correctly working and show no signs of damage.
- Check the main frame is correctly assembled with no loose bolts etc.
- Check the seat belt that is is securely fixed and shows no sign of damage.

If you discover a problem, contact your authorized Provider for assistance. Please refer to the Contact Information insert in your Owner's Package.



**WARNING!** This complete user manual should be read and fully understood before using and driving the powerchair.



**WARNING!** Never exceed the maximum permissible load – see 3.0 Specifications and never use the powerchair to transport more than one person.



**WARNING!** Never use the powered drive wheel when going down an incline. When going down inclines do so in non-powered mode.



**WARNING!** Never drive the powerchair under the influence of medication or alcohol.



**WARNING!** Never attempt to get onto or off your powerchair without first switching off the hand controller. This will prevent the powerchair from moving if accidental throttle control lever contact is made.



**WARNING!** This powerchair is not intended for use as a seat in a motor vehicle. The powerchair could fail in a vehicle impact, leading to serious injury or death of the occupant or injury to others.

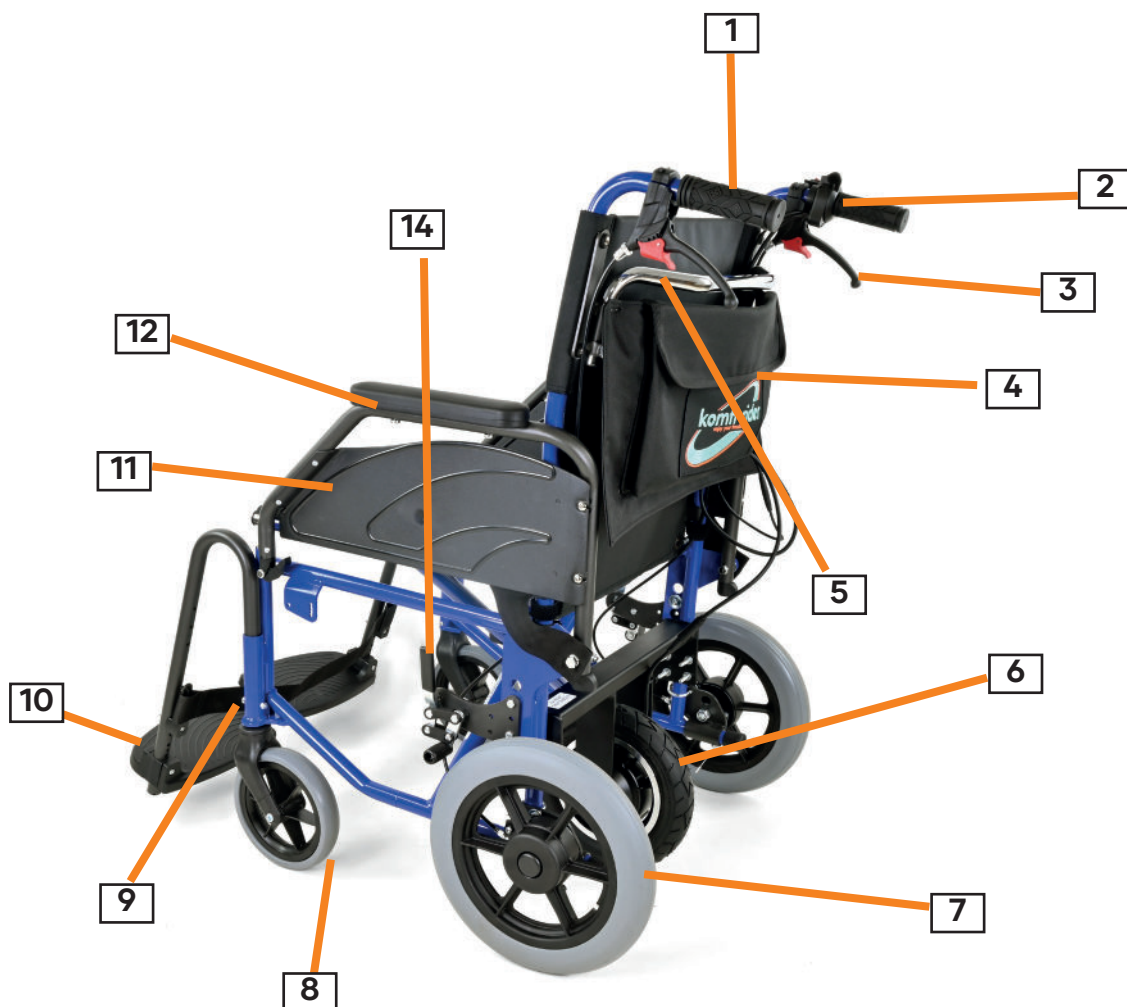
### 3.0 SPECIFICATION

Model Reference	Power Push - Commerical
Speed (Max)	4mph (6km/h)
Travel Range (Max)*	10 mil. (16km)*
BatteryType	1 x 24V 6Ah Lithium
User Weight (Max)	125 kg
Total Weight	24 kg
Seat Width	500mm
Seat Depth	440mm
Seat Height	500mm
Overall Width	680mm
Overall Depth	1030mm
Overall Height	950mm
Footrest Height	Adjustable
Tyre Type	Puncture Proof
Front Tyre	200mm
Rear Tyre	300mm
Backrest Type	Folding
Footrest Type	Removable
Charging Type	Off-Board
Attendent Brake	Yes, Drum Brakes
Drive Wheel	250mm / Pneumatic
Max PSI - Drive Wheel	35 Psi

**REMARK: Komfi-Rider** reserves the right to modify the specification if necessary. The final specification is subject to the individual scooter you purchase from your dealer.

\*Subject to user weight and terrain

## 4.0 COMPONENTS OF THE POWER PUSH CHAIR



1	PUSH HANDLE	2	ATTENDANT HAND CONTROLLER
3	ATTENDANT BRAKE	4	BATTERY/CONTROLLER BAG
5	ATTENDANT BRAKE LOCK	6	DRIVE WHEEL WITH MOTOR
7	REAR WHEEL	8	FRONT WHEEL
9	FOOTREST SWIVEL KNOB	10	FOLDING FOOTREST
11	PRIVACY PANEL	12	ARMREST
13	SEAT BELT	14	WHEEL HAND BRAKE LEVER

Your powerchair is equipped with a number of elements and parts. You should know these before using the powerchair. Designs and specifications may change without prior notice.

## 5.0 OPERATION - ATTENDANT HAND CONTROLLER

The Attendant Hand Controller allows the attendant to drive and steer the wheelchair, removing all the strain out of the pushing.

The four main controls of the controller are as shown below:

C-1	FORWARDS/BACKWARDS SWITCH	C-2	ON/OFF SWITCH
C-3	BATTERY GAUGE	C-4	TROTTLE CONTROL LEVER



### **C-1: FORWARD/BACKWARDS SWITCH:**

This changes the drive motor from forwards to backwards and vice versa.

- Press '0' to go forward.
- Press '1' to go backwards.

### **C-2: ON/OFF SWITCH:**

This turns On or Off the hand controller.

- Press '1' to turn on the controller. The battery indicator lights will turn on.
- Press '0' to turn off the controller. The battery indicator lights will turn off.

### **C-3: BATTERY INDICATOR GAUGE:**

Indicates the voltage of the batteries:

- Green – batteries are fully charged.
- Yellow – batteries are half full.
- Red – batteries need charging.

### **C-4: THROTTLE CONTROL LEVER:**

Use your thumb to drive the motor. Press down to drive and lift thumb to decrease speed.

## 5.1 ATTENDANT DRIVING

The Power Push has been designed to take all the strain and effort out of pushing the wheelchair.

It is simply and easy to use as follows:

- Make sure the battery is fully charged as indicated by the battery gauge (Fig 5.1.1).
- To start, press down the throttle lever (Fig 5.1.2) and start to push the wheelchair chair. You will feel the motor take over and start to propel the wheelchair. The motor will assist the chair up to 4mph walking speed.
- To slow down, ease your thumb off the throttle lever (Fig 5.1.2) and the motor will slow.



Fig 5.1.1



Fig 5.1.2



**WARNING!** The Power Push has been designed for Attendant use only. Never try and operate the chair without an attendant in control!



**WARNING!** Never leave the wheelchair occupied unless the hand controller has been turned off and the hand brakes have been locked on.



**WARNING!** The Power Push motor is not electronically braked. Always keep both hands on the wheelchair handles and with your hands in the position to be able to use the wheelchair brakes if necessary.



**WARNING!** Never attempt to get onto or off your Power Push without first turning off the controller. This will prevent the chair from moving if accidental Throttle Control Lever control contact is made.



**WARNING!** Never leave the wheelchair occupied without an attendant unless on a flat and safe surface with the hand brakes in the locked position.



We recommend that you start driving your Power Push at the slower speed.

## 5.2 GETTING IN ON/OFF YOUR POWERCHAIR

You will have to learn the characteristics of your wheelchair. It is most important to learn the safest methods to develop the daily activities in accordance with your lifestyle. Consult your medical advisor or therapist for assistance by developing safe and effective techniques for your daily activities and your physical possibilities.

Daily operations such as getting off the wheelchair, reaching and bending in the wheelchair will cause a change of weight distribution and a change in the center of gravity of you and your wheelchair.

### 5.2.1 TRANSFERRING – GETTING ON YOUR POWERCHAIR

Transferring in or out of a wheelchair is a difficult manoeuvre. Consult your physical therapist for assistance in developing your individual technique. The possibilities you have for making a transfer are depending on your physical characteristics. We advise you to discuss this first with your physical therapist. However, if you have sufficient body strength and you want to transfer to and from the wheelchair you will best do this in the following manner:

- First of all you must make sure that your wheelchair stands as closely as possible to the place of where you wish to transfer from.
- Make certain that the hand throttle controller is turned off. This will prevent the powerchair from moving if accidental hand throttle control contact is made.
- Only transfer on and off your powerchair on a firm and level surface.
- Fit your seat belt and make sure its securely tightened.

### 5.2.2 TRANSFERRING – GETTING OFF YOUR POWERCHAIR

To get into your wheelchair you need to do the same things as when you want to get out of the wheelchair, only in the reversed order.



**WARNING!** Always use the seat belt provided when seated in the chair.



**CAUTION! Reaching:** We strongly recommend that you seek the help of an attendant to pick something up for you.



**WARNING!** Always lock the wheel brake when transferring to and from the wheelchair.



**WARNING!** The following can adversely affect steering and stability while operating your wheelchair:

- Holding onto or attaching a leash to walk your pet.
- Carrying passengers (including pets).
- Hanging any article from the arms.
- Towing or being pushed by another motorized vehicle.

### 5.3 CURBS AND PAVEMENTS

When going up a curb the attendant can help you in two different ways, however we advised you to do it the first way.

**1. METHOD ONE** for going up a pavement you and the attendant reach the pavement facing forward. The attendant must pull the push handles and place his foot on the foot tipper (Fig 5.3.1).



Fig 5.3.1

**2. METHOD TWO** for going up a pavement the attendant is already standing on the pavement and makes sure that the wheelchair is positioned with the rear wheels as close to the pavement as possible. The user of the wheelchair needs to lean backwards. This way the wheelchair will tip backwards and the attendant can pull the chair on the pavement. The attendant needs to make sure that the front wheels are on the pavement before he lets the wheelchair down.

**GOING DOWN THE PAVEMENT:** The attendant should move the wheelchair forward to the curb. Then the user should lean back so the attendant can tilt the wheelchair to find a balance point. When the wheelchair is balanced the attendant can move the wheelchair slowly off the curb. When the wheelchair is off the pavement, the attendant can let the front wheels back onto the ground.

### 5.4 RAMPS AND SLOPES

- Before manouvering on a ramp or slope, inspect for risks such as holes or slippery and uneven surfaces.
- Before manouvering on a ramp or slope, make sure that there is adequate clearance from the ground to footrest (at least 7cm) to prevent footplate catching on the slope.
- When going down slopes and inclines only do so with the drive wheel in 'non-powered' mode. Going downhill with the drive wheel in 'powered mode' will decrease your ability to slow the wheelchair with the brakes.
- Always travel straight up or straight down an incline, ramp, slope etc.
- When travelling down a slope, proceed with caution at a slow pace, using the assistant brakes if required.
- Take extra care when transitioning from the slope to a horizontal surface, push down on the push handles during the transition.
- Never travel across (traverse) an incline, ramp etc, in any direction – Travelling across an incline, ramp etc could result in turning the wheelchair over resulting in serious injury or death.



**WARNING! Never use the powered drive wheel when going down an incline. When going down inclines do so in non-powered mode.**



**WARNING! Never descend or climb a gradient which is greater than the recommended maximum see 3.0 Specifications°.**



**WARNING! Never drive across (traverse) an incline, ramp etc, in any direction.**



**WARNING! Take extra care when transitioning from the slope to a horizontal surface, push down on the push handles during the transition.**

## 5.5 STAIRS

- Stairs are one of the largest obstacles for wheelchair users. However, with a little help from two attendants it is possible to climb up and down the stairs. Assessment of the weight that has to be moved should be undertaken by the attendants prior to this maneuver.
- To go upstairs you need to go up the stairs backwards. One attendant at the front and one attendant at the back. The attendant at the back holds the push handles and lets the wheelchair tip backwards until it is in balance. When the wheels are in balance the attendant at the front needs to hold the side frames. You are now in position to climb the stairs. The attendant on the front pushes the side frames up until they are above the first step and the attendant at the back makes the first step on the stairs. Repeat this technique until the last step of the stair. You can let the front castors down when the attendant at the front has taken the last step.
- To go downstairs, the wheelchair should be facing forwards. The rear attendant should tip the wheelchair until it balances. The front attendant should support the wheelchair by holding the side frames. The wheelchair should then be slowly guided down each step



**WARNING! Never lift the wheelchair by the push handles, armrests or footrests. Always hold a part of the main frame.**



**WARNING! Never stand on the footrests, this will cause the wheelchair to tip over and injure the user (Fig 5.5.1).**



Fig 5.5.1



**WARNING! Always place the wheelchair on a stable, flat surface and switch off the controller before transferring to or from the wheelchair.**



**WARNING! Unauthorized modification and or use of parts not supplied by Komfi Rider will invalidate the warranty of this wheelchair and may lead to injury to the user and or damage to the wheelchair.**



**WARNING! Never drive across (traverse) an incline, ramp etc, in any direction.**



**WARNING! Surface temperatures can increase when exposed to external sources of heat (e.g. sunlight).**

## 5.6 OPERATING BRAKES

The brakes on the wheelchair can be operated by either the Attendant Handle Brake Lever or the Wheel Hand Brake Lever (FIG 5.6.0).



**WARNING!** Always lock the brakes when transferring to and from the wheelchair.

### 5.6.1 USE OF ATTENDANT HANDLE BRAKE

The Attendant brake has been fitted to allow the wheelchair attendant to brake the wheelchair when required. The brake can also be locked in the braked position.

- To lock the brake, pull up the brake lever (Fig 5.6.1.1) and with your fore finger push down on the red lock (Fig 5.6.1.2). Release the brake lever and it will remain in this locked position (Fig 5.6.1.3).
- To un-lock the brake, pull the brake lever upwards and the lock will disengage.

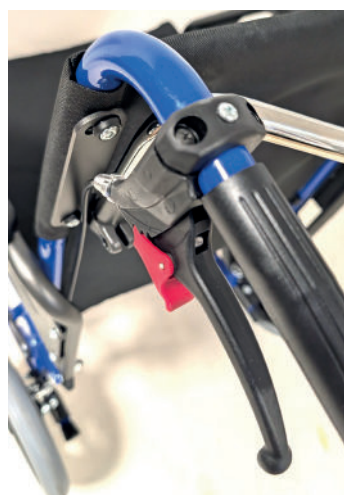
Fig 5.6.1.1



Fig 5.6.1.2



Fig 5.6.1.3



## 5.6.2 USE OF WHEEL HAND BRAKE

- Use this Wheel Hand Brake for when transferring to and from the wheelchair, for when the lock is to be used for a long period of time or for when the lock is to be used when wheelchair is on any slope/gradient.
- To lock the brake, hold the handle and push the lever forward towards the front of the wheelchair (Fig 5.6.2.1).
- When you hear a click, this confirms the brake has locked.
- To un-lock the brake, hold the handle and pull towards the rear of the wheelchair (Fig 5.6.2.2).

Fig 5.6.2.1



Fig 5.6.2.2



## 5.7 REMOVING FOOTRESTS

The footrests can be swivelled or removed by the following:

- Press the button on the frame (Fig 5.7.1) and lift the footrest upwards. This will allow you to either fully remove the footrest or to swivel it to the side for when the user is being transferred into or out of the wheelchair (Fig 5.7.2).

Fig 5.7.1



Fig 5.7.2



## 5.8 FOLDING BACK ARMRESTS

The Armrests can be folded back for helping with transfers.

- First disengage the armrest lock as shown in (Fig 5.8.1).
- The armrest will now lift up as shown (Fig 5.8.2).
- The armrest can then be lowered back and pushed down to locate the armrest lock (Fig 5.8.3).

Fig 58.1



Fig 58.2



Fig 58.3



## 7.0 BATTERIES AND CHARGING

### 7.1 General Information & Instructions on Charging:

Your powerchair requires a lithium battery that is sealed and maintenance free. The battery is recharged by the supplied off-board charging system.

### 7.2 Charging your battery:

- Before charging your battery make sure you have fully read and understand the instructions and safety/warning notes on charging and battery care in this manual and also the charger's manual.
- Turn off the powerchairs power.
- Lift the flap on the battery bag positioned on the rear of the backrest (Fig 7.2.1) and remove the battery.
- To fully remove the battery from the rear bag you will need to disconnect the XLR 3 pin connector. To do this, press down the release clip (Fig 7.2.2) on the XLR 3 pin connector and disconnect the two connectors by pulling them apart (Fig 7.2.3).
- You can now remove the battery box for charging.
- Position your battery box near to a mains electrical socket.
- Connect the XLR connector on your battery box lead into the charger plug outlet point.
- Do not switch on the battery charger until all the plugs are in position. Once in position switch on the charger.
- The LED light on the battery charger will show red while charging.
- The LED light on the battery charger will show green when batteries are fully charged.
- Turn off the mains power to the charger before removing the charger plug from charging outlet.

Fig 7.2.1



Fig 7.2.2



Fig 7.2.3



### 7.3 Battery Charging & Care

To extend your battery's useful life as long as possible, you need to care for it properly. That means adopting good charging habits and taking care with battery storage. Following the points set out below will help to significantly lengthen your battery's useful life.



#### • **Do not overcharge:**

- Lithium-ion batteries cannot tolerate overcharging and because of this should not be trickle charged continuously.
- The closer the battery gets to 100 % charge the slower it charges: the charger is actively reducing the current to go easy on the battery cells. However, since these final few percent put a lot of stress on the cells, batteries also tend to get much warmer at the end of the charge cycle.
- Overcharging can result in the deposition of lithium metal on one of the electrodes, which then becomes a fire hazard.
- If the charge level is at 80 % or more you should avoid recharging the battery before using it.



#### • **Do not fully discharge:**

- Avoid regularly fully discharging your battery and it is best not to let your battery go under 20%.
- If the battery is empty, you should avoid charging it to only 20 % and then using it.
- An empty battery should be charged to 30 % or even better 70 % as quickly as possible.



#### • **Avoid full charge/discharge cycles:**

- Full charge/discharge cycles should be avoided if possible.



#### • **Correct charging methods:**

- Only use the charger supplied with the scooter, or a charger that has been approved by Komfi-Rider.
- Do not charge your battery under extreme temperatures. High temperatures above 30°C are not recommended for charging as well as low temperatures below 10°C.
- Protect your charger from sources of heat such as heaters and direct sunlight. If the battery charger overheats, charging current will be reduced and the charging process delayed.
- The battery must be charged using a charger that follows a rigid charging regime and has both overheat protection and time-out protection.
- When charging your battery do not leave them on charge unattended / in an unoccupied area.
- Regularly observe the lithium battery during charging and for 15 minutes afterwards to check. Turn off your charger immediately if your battery gives off an odour, generates heat or appears abnormal in any way.



#### • **Correct battery storage:**

- Do not store your battery fully charged for extended periods of more than 24 hours. Discharge to about 50-60% capacity for storage for long periods.

- Do not store your battery at low charge, charge it before storing, you should charge it to 50-60% and keep it between 30 and 70 % at all times.
- Lithium-ion batteries don't like extreme temperatures. Whenever possible store in temperatures between 10 to 30°C and avoid leaving your battery in a hot vehicle that's in direct sunlight or in chilly rooms.
- Do not store your battery in damp or dirty/dusty locations.
- Do not crush, break open or physically abuse the batteries or the equipment that contains them.



**WARNING!** Risk of explosion and destruction of batteries if the wrong battery charger is used. Only every use the battery charger supplied with your vehicle, or a charger that has been approved by Komfi-Rider.



**WARNING!** Do not use or store the battery near sources of heat such as a fire or heater.



**WARNING!** Never attempt to open or disassemble the charger. If the battery charger does not appear to be working correctly, contact your authorized provider.



**WARNING!** When charging batteries do not leave them on charge unattended / in an unoccupied area in case, through a latent defect, they burst into flame during the process. There needs to be someone present who knows how to deal with an emergency.



**WARNING!** Do not use the battery if it gives off an odour, generates heat or appears abnormal in any way. If the battery is in use or being recharged, remove it from the device or charger immediately and discontinue use. Contact your authorized provider.



**WARNING!** Risk of electric shock and damage to the battery charger if it gets wet. Always protect the battery charger from water and always charge in a dry environment and with dry hands.



**WARNING!** Risk of short circuit and electric shock if the battery charger has been damaged. Never use the charger if it has been dropped or damaged.



**WARNING!** Risk of electric shock and damage to the batteries – Never attempt to recharge the batteries by attaching cables directly to the battery terminals.



**WARNING!** Risk of fire and electric shock if a damaged extension cable is used. Only ever use an extension cable if it is absolutely necessary. If you have to use an extension cable make sure it is in good condition.



**WARNING!** Risk of injury if using the powerchair during charging. Do not attempt to recharge the batteries and operate the powerchair at the same time. Do not sit in the scooter while charging the batteries.



**WARNING!** Chargers are selected precisely for particular applications and are especially matched to the type, size, and chemical formulation of specific batteries. For the safest and most efficient charging of your powerchair's batteries, we recommend use of the charger supplied as original equipment with your product only. Any charging method resulting in batteries being charged individually is especially prohibited.



**WARNING!** Never attempt to disassemble the battery from the battery box or refit the battery. Contact your authorized provider.



**WARNING!** If your battery charger has not been tested and approved for outdoor use, then do not expose it to adverse or extreme weather conditions. If the battery charger is exposed to adverse or extreme weather conditions, then it must be allowed to adjust to the difference in environmental conditions before use indoors. Refer to the manual supplied with the battery charger for more information.



**WARNING!** Never use or store the battery where it is exposed to high temperatures. Leaving the battery in a car on a hot day or in an area of direct sunlight such as a window will reduce battery performance and shorten service life.



**WARNING!** Risk of explosion and electric shock if batteries are charged when incorrectly wired. Never attempt to open or disassemble the battery box. If the batteries do not appear to be working correctly, contact your authorized provider.

## 8.0 EMI / RFI

The rapid development of electronics, especially in the area of communications, has saturated our environment with electromagnetic (radio) waves that are emitted by television transmitters, cellular phones, citizen's band radios (CB's), amateur radios (ham radios), wireless computer left, microwave transmitters, paging transmitters etc. These electromagnetic (EM) waves are invisible and increase in strength the closer one gets to the source of transmission. When these energy waves act upon electrical devices and cause them to malfunction or to function in an erratic or uncontrolled manner, they are referred to as Electromagnetic Interference (EMI) or Radio Frequency Interference (RFI).

### EMI / RFI and your Powerchair

All electrically powered vehicles, including powerchairs are susceptible to Electromagnetic Interference / Radio Frequency Interference (EMI / RFI). This interference could result in abnormal, unintended movement of your powerchair.



**WARNING! Unintended movement or brake release can cause an accident or injury**

The MHRA (Medicines and Healthcare products Regulatory Agency) has determined that each make and model of powered wheelchair can resist electromagnetic interference (EMI) and radio-frequency interference (RFI) to a certain level. The higher the level of resistance, the greater the degree of protection from EMI and RFI—measured in volts per metre (V/m). It has also been determined that current technology is capable of providing up to 20 V/m of resistance to interference.

### EMI / RFI recommendations

- Do not turn on or use hand-held personal electronic communication devices such as cellular phones, walkie-talkies and CB radios while your powerchair is turned on;
- Be aware of any nearby transmitters (radio, television, microwave, etc.) on your intended route and avoid operating your powerchair close to any of those transmitters;
- Turn off the power if your wheelchair is going to be in a stationary position for any length of time;
- Be aware that adding accessories or components or modifying your powerchair may make it more susceptible to EMI / RFI;



**WARNING! Turn off your powerchair as soon as it is safely possible if unintended or uncontrollable motion occurs or if unintended park brake release occurs.**

## 9.0 CARE AND MAINTENANCE

### 9.1 DAILY CHECK Please always check your powerchair daily, for the follownig:

ITEM TO CHECK	INSPECTION	IF THE INSPECTION FAILS
Brakes	Check that they function correctly.	Contact your dealer.
Hand Throttle Controller	Check that it functions correctly.	Contact your dealer.
Battery Gauge	Check the battery gauge that it is displaying and if its showing low power.	Contact your dealer if battery gauge s not working. Recharge the battery immediately if low.

### 9.2 WEEKLY CHECK Please always check your powerchair weekly for the follownig:

ITEM TO CHECK	INSPECTION	IF THE INSPECTION FAILS
Seating	Check that armrest screws are tightened correctly. Check that the seat folding frame is is correctly fitted and tightened.	Contact your dealer.
Wheels/Tyres	If your powerchair has pneumatic tyres, inflate to the correct pressure. Drive wheels turn without wobbling. Tire thread depth is not less than 0.5mm. There are no foreign objects in the tires. That the wheel bolts are correctly tightened.	Contact your dealer.
Motor	Does the motor sound normal?	Contact your dealer.
Battrey Box	Check for signs of damage to the case.	Contact your dealer.
Battery Charger	Check that the charger is functioning correctly and the batteries are charging correctly.	Contact your dealer.

### 9.3 MONTHLY CHECK Please always check your powerchair monthly for the follownig:

ITEM TO CHECK	INSPECTION	IF THE INSPECTION FAILS
Upholstery	Check for worn fabric.	Contact your dealer.
Wheelchair Frame	Check all bolts and fixings are tight and not loose.	Contact your dealer.

## **9.4 REGULAR SERVICING**

To make sure your powerchair continues to perform to its best and is maintained in good working order you will need to regularly have your powerchair checked and serviced by your powerchair dealer.

## **9.5 TYRES**

The condition of the tyres depends on how you drive and use your powerchair.

Inspecting Tyre Treads. Please check the tread depth regularly. Replace the tyres when the tread depth is less than 0.5 mm. If you have pneumatic tyres then check the pressure regularly. See 3.0 Specifications for the correct psi.

## **9.6 UNIQUE IDENTIFICATION NUMBER**

Your powerchair has a unique identification number which is located on your powerchair at several different locations, on the rear and front chassis and under the seat. This unique number will enable your authorized supplier to confirm with Komfi-Rider if necessary, the age of your powerchair and when it was purchased.

## **9.7 CLEANING**

- Do not use water, oil or other chemical solutions to clean your powerchair. Be sure NOT to spray the powerchair with the water as this can damage the electronic components.
- Use a dry or moist cloth and mild, non-abrasive cleanser to clean the plastic and metal parts of your powerchair. Avoid using products that may scratch the surface of your Travel powerchair. If necessary, clean your product with an approved disinfectant. Make sure the disinfectant is safe for use on your product before application.
- Please take the powerchair to authorized dealers for repairs and adjustments. Improper adjustments could lead to accidents and scooter malfunction.
- Regularly check all wiring connections. Regularly check all wiring insulation, including the charger power cord, for wear or damage. Have your authorized dealer repair or replace any damaged connector, connection, or insulation that you find before using your powerchair again.
- You should keep electrical connections away from sources of dampness, including direct exposure to water or bodily fluids and incontinence. Check electrical components frequently for signs of corrosion and replace as necessary.

## **9.8 STORAGE**

- The best place to store your powerchair – either overnight or for longer periods – is in a dry, clean and secure space, ideally with a mains electricity socket so you can charge it at the same time. A lockable garage or a secure shed is ideal.
- When storing for long periods of time your powerchair should still be charged regularly. See section on Batteries and Charging for more information.

## 10.0 OTHER INFORMATION

### RECYCLING & DISPOSAL

To make sure your powerchair is in good condition, go to your powerchair dealer regularly.

- The equipment wrapping is potentially recyclable.
- The metal parts are used for scrap metal recycling. The plastic parts are used for plastic recycling.
- Electric components and printed circuit boards are disposed of as electronic scrap.
- Exhausted or damaged batteries can be returned to your medical equipment supplier.
- Disposal must be carried out in accordance with the respective national legal provisions.
- Ask your city or district council for details of the local waste management companies.

### SERVICE LIFE

We estimate a service life of five years for this product, provided it is used in strict accordance with the intended use as set out in this document and all maintenance and service requirements are met. The estimated service can be exceeded if the product is carefully used and properly maintained, and provided technical and scientific advances do not result in technical limitations. The service life can also be considerably reduced by extreme or incorrect usage. The fact that we estimate a service life for this product does not constitute an additional warranty.

## 11.0 Basic Troubleshooting

This table is only a guide to aid you in getting your powerchair operating, should you have any problems. If you are unable to get your powerchair operating, please contact your powerchair Dealer.

Symptom	Possible	Solution
Powerchair does not move	<ol style="list-style-type: none"><li>1. Hand controller switch is not "ON"</li><li>2. Battery not connected</li><li>3. Charger connected to outlet</li><li>4. Battery power low</li><li>5. Controller error</li><li>6. Hand controller faulty</li></ol>	<ol style="list-style-type: none"><li>1. Turn Hand controller switch to "ON"</li><li>2. Connect battery</li><li>3. Disconnect charger</li><li>4. Recharge battery</li><li>5. Check Power light for Flash Code (See 12.0 Flash Codes to get a solution)</li><li>6. Check with your mobility dealer.</li></ol>
Range less than expected	<ol style="list-style-type: none"><li>1. Charging too infrequently</li><li>2. Defective or worn out battery</li><li>3. Cold weather reduces battery life</li><li>4. Defective charger</li></ol>	<ol style="list-style-type: none"><li>1. Charge powerchair more often</li><li>2. Your battery may need to be replaced.</li><li>3. Allow batteries to reach room temperature and then fully recharge</li><li>4. Contact your powerchair Dealer</li></ol>

## 12.0 FLASH CODES

### Powerchair controller internal diagnostics:

The diagnostic flash codes for your powerchair are designed to help you perform basic troubleshooting quickly and easily. A diagnostic flash code flashes from the Hand Control Power light (Fig 12.1.1) in the event one of the conditions listed below develops.

Flash Code	Fault	Effect On Powerchair	Solution
Red Light: 6 Flash	Controller/Motor Fault	Powerchair stops driving	A) • Check all connections between the motor and controller. B) • If connections are correct then the Motor may be faulty. C) • If a and B do not fix then change the controller. • Contact your service agent.
Red Light: 7 Flash	Motor Overcurrent	Powerchair stops driving	• Turn off the hand throttle and on again. • Contact your service agent.
Red Light: 8 Flash	Battery charge is too low or there is a bad connection.	Powerchair stops driving or only travels short distance	• Charge batteries. • Check all battery wiring connections. • Contact your service agent. • Replace your battery.
Red Light: 9 Flash	Controller Overheating	Powerchair stops driving	• Power off and wait until the temperature goes back to normal. • Contact your service agent.
Red Light: 13 Flash	Bad connection to left hand motor.	Powerchair stops driving	• Check all connections between the motor and controller. • Motor may be faulty and need replacing. • Contact your service agent.
Red Light: 15 Flash	High Voltage	Powerchair stops driving	• Check the battery, it may need to be replaced. • Contact your service agent.

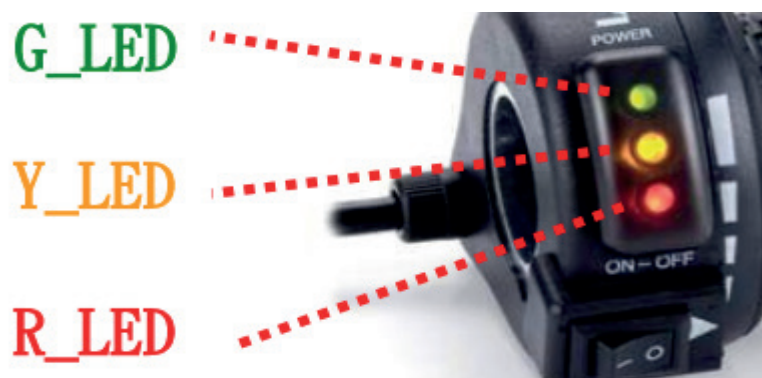


Fig 12.1.1

## 13.0 WARRANTY

### WARRANTY POLICY:

#### LIMITED WARRANTY. IMPORTANT NOTICE:

To ensure your product warranty is validated you must complete the online application form within 14 days of purchase at the following website link:

**To complete your warranty please visit:**  
[www.komfi-rider.co.uk/warranty-registration/](http://www.komfi-rider.co.uk/warranty-registration/)

### 13.1 TWO-YEAR LIMITED WARRANTY

Two years on all structural frame components..

### 13.2 ONE-YEAR LIMITED WARRANTY:

For one (1) year from the date of delivery, we will replace at our discretion to the original purchaser, free of charge;

1. Seating Cushions
2. Motor & Controller
3. Charger
4. Any other electrical subassembly

NOTE: If there is an increase in the noise level from the transaxle, the warranty does not apply. An increase in operational noise level usually occurs due to excessive strain on the scooter.

### 13.3 BATTERIES

**Batteries are covered by a six (6) month warranty from the original manufacture and a further six (6) month warranty at the discretion of Komfi-Rider.**

**Note: Gradual deterioration in performance due to batteries being left in a discharged state, left in cold conditions for long periods of time or worn out through heavy use is not covered.**

### 13.4 Warranty Exclusions

1. ABS plastic shrouds and footrest covers (wear items are not warranted).
3. Tyres and Anti-tip Wheels (wear items are not warranted).
4. Upholstery and seating (wear items are not warranted).
5. Motor Brushes.
6. Brake Pads (wear items are not warranted).
7. Fuses.
8. Repairs and/or modifications made to any part of the scooter without specific and prior consent from **Komfi-Rider**.
9. Circumstances beyond the control of **Komfi-Rider**.

Exclusions also include components with damage caused by:

1. Contamination (rain, etc).
2. Abuse, misuse, accident, or negligence.
3. Commercial use, or use other than normal.
4. Improper operation, maintenance, or storage.

**NOTE:** Gradual deterioration in performance because the battery has been left in a discharged state, left in cold conditions for an extended period of time, or worn out through heavy use is not covered by the warranty.

### 13.5 SERVICE CHECKS AND WARRANTY SERVICE

This warranty is extended only to the original purchaser. Your original receipt will be necessary as proof of purchase before any warranty performances are rendered.

This warranty only covers failures due to defects in materials or workmanship which occur during normal use and does not cover damage that occurs in shipment or failures which are caused by products not supplied by **Komfi-Rider** or failures resulting from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, commercial use or by anyone

other than an authorized dealer, or damage that is attributable to the acts of God.

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.

### 13.6 NOTICES TO CONSUMER

There are no other express warranties. To the extent permitted by law, any implied warranty (including a warranty of merchantability or fitness for a particular purpose) is limited to:

1. One (1) year from the day of original delivery
2. Repair or replacement of the defective part only.

## Warranty Application Form

Important Notice – To ensure your product warranty is validated you must complete the online application form within 14 days of purchase.

**To complete your warranty please visit:**

[www.komfi-rider.co.uk/warranty-registration/](http://www.komfi-rider.co.uk/warranty-registration/)



# POWER PUSH

Manufacturer: One Rehab Ltd, Fernwood Estate, Shillinglee Road, Surrey, GU8 4SX

Authorized Dealer:

