

# Operations Manual



scooterpac™

# 1 Welcome

Congratulations on purchasing your Scooterpac Cabin Car Mk2, the most technically advanced mobility scooter in Britain. With regular maintenance and proper operation your Cabin Car will give you many years and many miles of rewarding experiences. This booklet contains the information that you and your authorised Scooterpac service centre will need to keep your Cabin Car in good working order.

If you have any questions please contact the Scooterpac retailer that supplied your Cabin Car and they will be able to help.

This Cabin Car Mk2 was originally supplied by:

Dealership name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone Number: \_\_\_\_\_

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### 3 Legal

The Scooterpac Cabin Car is designed to be operated by a single person, in accordance with the legal requirements for operating a Class 3 invalid carriage in the jurisdiction in which it was sold. Operating the vehicle outside of these limitation will invalidate the warranty.

## 4 Safety

The Cabin Car should only be operated by a single person, who is not suffering from any condition which impairs vision, hearing, eyesight or the ability to react to sudden changes in surroundings. If you suffer from any of the above, it is recommended that you seek advice from your doctor before operating the Cabin Car.

- Only drive over obstacles and up kerbs at the lowest point and at right angles
- Sudden turns or sudden changes in speed are not recommended
- Avoid steep surfaces if there is a risk of skidding due to icy or wet surfaces
- Avoid going over loose surfaces such as gravel
- Always tackle gradients straight i.e. do not drive in zigzags
- Do not turn the Cabin Car around on inclined surfaces
- Do not drive the Cabin Car down steps
- Always drive forwards down gradients, kerbs and other obstacles

### 4.1 Anti-Tip Wheels

The Cabin Car is fitted with Anti-Tip wheels at the rear – these are an emergency failsafe that should never be relied upon in normal operation. If the Cabin Car tips and the wheels prevent it from falling, you should cease using the car and take it to a qualified specialist who can ensure that the cars chassis has not been damaged.

## 4.2 Safe Inclines

The Cabin Car is able to climb inclines of up to  $12^\circ$  without danger. On this  $12^\circ$  incline, the Cabin Car can stop, brake and turn. It is possible to attempt steeper inclines, but we strongly suggest that you do not try. To reduce the tipping hazard on inclines, lessen the load on back, slide the seat forward as much as possible and lean forward.



## 5 Introduction

Your Cabin Car is a high tech piece of mobility equipment that will give you years of faithful service and enjoyment. This booklet provides an introduction to the operation, maintenance and care of your Cabin Car. If you have any questions, or are unsure of anything, you should contact the retailer who originally supplied it to you. All maintenance work should be carried out either by an authorised Scooterpac retailer, or by a certified mechanic.

## 6 Your Cabin Car

### 6.1 Intended Use

The Cabin Car is designed for use on smooth pavement or roadway, in accordance with local laws. The Cabin Car can be used in wet and windy weather but discretion should be used when planning a journey in adverse weather conditions. If there is more than 1cm of water standing on the pavement, extra care should be taken as the car may have reduced ability to grip and steer. Under no circumstances should more than one person operate the vehicle at one time.

## 6.2 Unintentional Movement

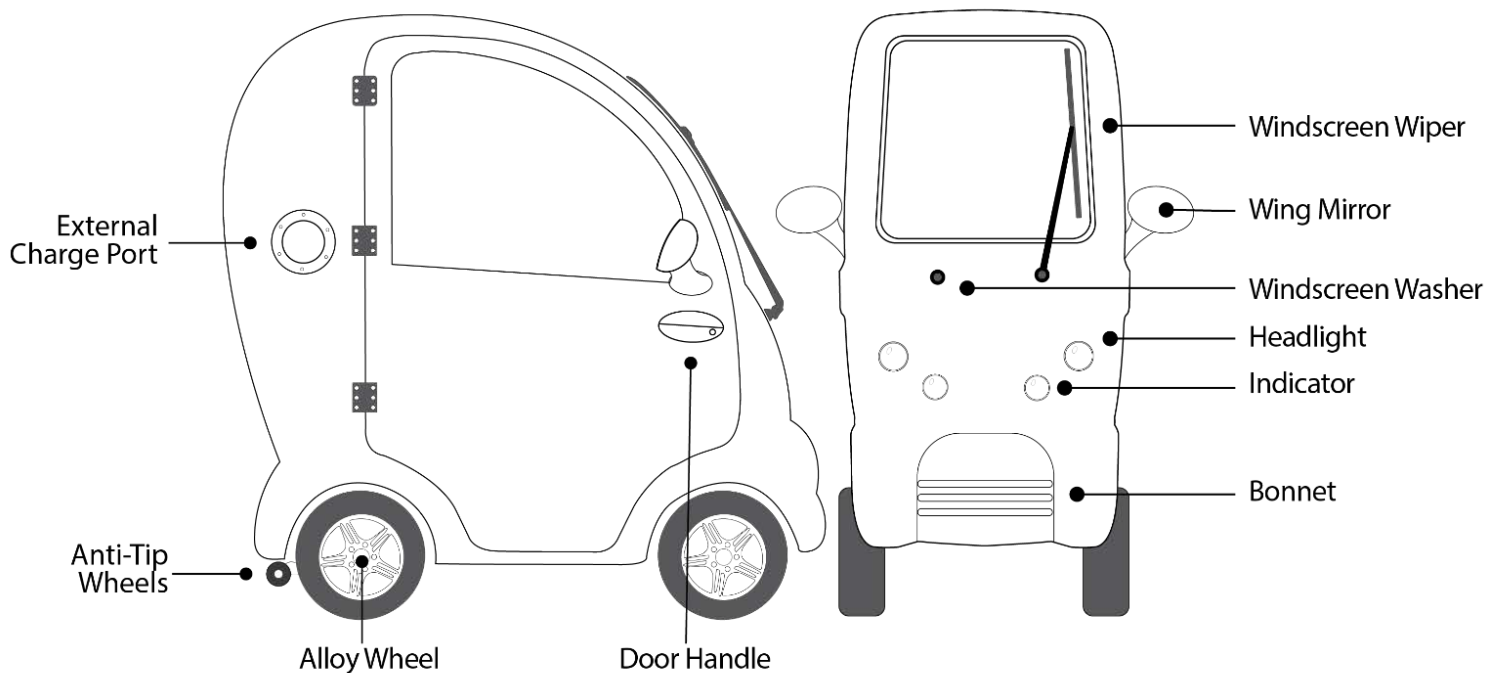
The Cabin Car should be stopped fully before any door is opened. When the car is switched on, it will remain stationary until one of the following:

1. The accelerator or reverse handle is pulled.
2. The Freewheel button is engaged.

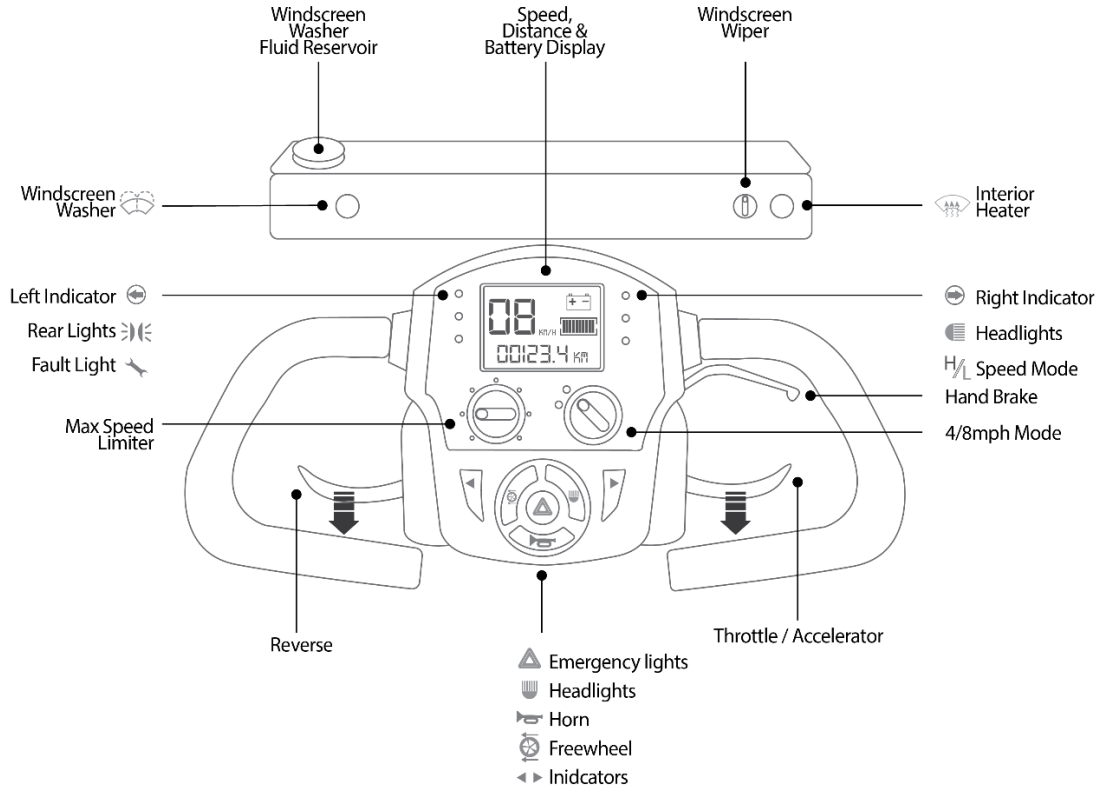
If the vehicle is moving the door should be fully closed with the driver inside the vehicle. Do not attempt to operate the vehicle from outside the vehicle.

If the vehicle is moving an emergency stop can be performed by firmly pulling the hand-operated brake lever on the right hand side of the tiller.

## 7 Exterior Quick Guide



# 8 Interior Quick Guide



## 9 Operating Your Cabin Car

### 9.1 Entering the Vehicle

The vehicle can be entered safely from both the left and right hand side. First ensure that the Cabin Car is stationary on smooth, level ground. Fully open one of the doors, and enter the vehicle. When you are safely and comfortably seated, pull the door closed behind you using the handle mounted beneath the window. It is not recommended that you lock the car when seated inside, as this may delay your escape in an emergency.

## 9.2 Seat Adjustments

It is important to adjust the drivers seat into a good position that allows you to comfortably operate all of the vehicle controls. To move the seat forwards or backwards, grasp the black lever on the right hand side underneath the seat. Push firmly against the floor with your feet, or pull on the handles mounted to the doors. **Do not** use the control tiller to push or pull yourself.

The pitch of the seat can be changed by lifting the lever on the right hand side of the seat. It is suggested that an upright position is most effective, but you should be in a comfortable position to operate the car for a long period of time.



### 9.3 Tiller Adjustments

The pitch of the tiller can be adjusted by depressing the lever on the front of the tiller. The entire tiller assembly can then pitch forwards and backwards to find a comfortable driving position. Be aware that lowering the tiller too far may make it difficult to steer. Try to find a position that allows a good view of the digital control panel and allows full left and right movement of the handles.



*Figure 1 - Press black handle to adjust tiller pitch*

## 9.4 Steering

The Cabin Car is fitted with a mechanical steering column that should be operated with both hands at all times. When the car is stationary the steering may feel heavy or stiff, as the wheels will grind into the flooring surface when you attempt to turn them. For the most accurate steering the car should be moving forwards or backwards at a controllable speed. Gently push one side of the tiller way from you, allowing the car to begin turning. Make sure that you are continually observing your surroundings during any manoeuvre.

## 9.5 Acceleration & Braking

### 9.5.1 Speed Controls

The Cabin Car has several methods for controlling speed; the 4mph and 8mph settings, the max speed limiter and the throttle.

#### 9.5.1.1 Upper & Lower Speed Settings

The upper and lower speed settings are controlled by the right hand dial on the tiller. The two settings put the car in either 4mph or 8mph mode. These modes correspond to the “pavement” and “road” speeds that are determined by the UK government. When using the pavement in the UK, the 4mph mode should be engaged to prevent the Cabin Car from moving too fast. On the road the 8mph setting should be engaged.



#### 9.5.1.2 Max Speed Setting

The left hand dial controls the maximum top speed at which you’d like the car to travel. This function is particularly useful when operating the car in tight areas. The car will accelerate up to full speed when the dial is turned fully clockwise. When the dial is set to fully counter clockwise, the car will move at it’s slowest speed.



#### 9.5.1.3 Throttle levers

Acceleration and deceleration are controlled by the Red and Green levers on the tiller. They are designed to prevent both Accelerator and Reverse being activated at the same time. To set off, gently squeeze the green lever, and the car will accelerate up to the maximum allowable speed set by the speed controls.

To slow down, simply release the accelerator and the car will coast to a stop. In an emergency the handbrake can be applied by squeezing the brake handle on the right of the handlebars.

Reverse mode can be activated by pulling the red lever when the car is stationary. For more information on reverse mode please see Chapter 9.5.3 on reversing.

### 9.5.2 Freewheel Function

Occasionally you may need to move the Cabin Car without engaging the motors. This can be achieved by pressing and holding the “Freewheel” button. The car must be switched on, with keys in the ignition and power to the main display.

Press and hold the button marked with this symbol:



When in freewheel mode care must be taken to manoeuvre the car safely – there is no brake function and the car will continue to roll if pushed.

### 9.5.3 Reversing

The Cabin Car is fitted with multiple aids for reversing including a rear-facing digital camera, rear parking sensors and audible proximity warnings.

To engage reverse mode, ensure that the Cabin Car is stopped on even ground, and the wheels are pointed forwards. Before moving, check that the area is clear of obstructions and your planned path is of adequate size. Check the rear-view mirror and wing mirrors prior to manoeuvres.

Gently squeeze the red lever, and the car will begin to slowly accelerate backwards. The rear-view camera will come into life after a 1 second delay, and be visible until you release the red handle.

If the car detects any obstacles behind you, you will hear the parking sensor alarm that rings with increasing frequency that relates to the distance from the object.

**TIP:** You can switch the parking sensor alarm on and off using the switch toggle on the very top of the rear-view mirror. Note that this will not deactivate the camera, it will simply mute the alarm sounds.

The wing mirrors fitted to the Cabin Car Mk2 are large, giving improved visibility and safety. They can be folded in by gently twisting the housing until the glass is parallel to the door.

## 9.6 Locking, Unlocking and Starting

### 9.6.1 Manual Unlocking

The Cabin Car can be unlocked manually by using the dedicated door key provided with your cabin car. The key will lock and unlock both doors at the same time when used in the Nearside door, and will unlock just the right door when used on the offside door.

### 9.6.2 Key Fob

The key fob provided with your Cabin Car has been programmed to unlock both doors simultaneously. It is not recommended that you lock the car from the inside of the vehicle, though it is possible. In an emergency quick exit from the vehicle may be hampered by locked doors.

#### 9.6.2.1 Changing the battery

The battery in the key fob should last approximately 24 months, and can be replaced at home. To do so, simply remove the three screws on the rear of the fob. Inside, you can remove the circuit board and pull out the black rubber battery-holder.

The holder contains two small batteries, stacked on top of one another. Replace these batteries and slide the holder back into place. Replace the cover and re-tighten the screws, taking care that all pieces fit together snugly.

The batteries required are: Lithium Cell CR2016 V3 batteries.



Figure 2 - Complete key fob

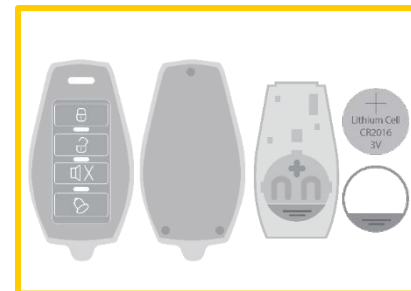


Figure 3 - Key fob components

### 9.6.3 Manual Locking

The car can be locked manually by pushing down on the black “locking pin” at the front of each door. This will engage the locks, and they will remain engaged until you lift the locking pin manually.

From the outside you can also use the supplied door key to lock both doors by using the nearside door. Using the external lock in the offside door will only lock that specific door.

### 9.6.4 Starting the Car

The car will only start when the ignition key is inserted into the housing on the tiller column, and turned clockwise fully. The Cabin Car will be started when the digital dashboard displays visual data.

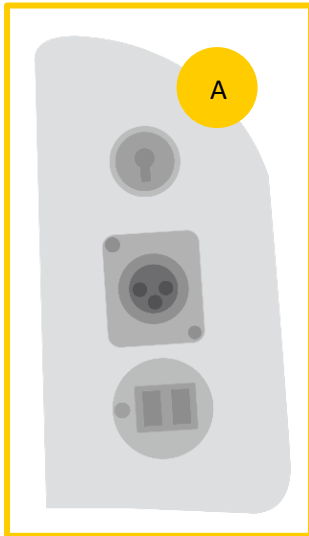
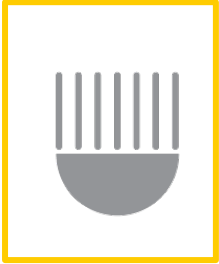



Figure 5 - (A) tiller mounted key slot



Figure 6 - Digital dashboard displaying data



## 9.7 Lights




The Cabin Car is supplied with high quality LED headlights that can be activated from the tiller top controls. To switch on the headlights press the . It is advisable to use the headlights whenever the car is in motion, in order to aid other drivers and pedestrians in noticing you.

**TIP:** Do not leave the lights switched on when the car is not in use, as this may drain the battery thus limiting the cars range.


## 9.8 Indicators

The indicators are the same bright LEDs as the headlights, in an orange colour that meets EU specifications. To switch them on press the  button once before initiating a manoeuvre. Once the turn is complete and it is safe to do so, press the  again to turn off the indicator.

## 9.9 Emergency Lights

In case of emergency both indicators can be engaged at once, by pressing the  button. This will leave both indicators flashing front and rear, until the button is pressed again.

## 9.10 Horn

The electric horn is activated by pressing the  button on the tiller top. The horn should only be used in compliance with the highway code, it is not a communication device and should not be used as such. The horn will not sound if the key is not in the ignition and the car switched on.


## 9.11 Windscreen Wipers



The windscreen wiper on the Cabin Car is designed to give you improved visibility during rain and snow. It can be switched on using the silver switch on the right hand side of the dashboard. The windscreen wiper has two speed settings that can comfortably run for an extended period of time. The windscreen wiper will work best when the glass is clean and free of debris. Select the faster speed for heavier rainfall.

Do not run the windscreen wiper when there is ice or frost on the windscreen as this may crack the rubber and lower it's effective lifespan.

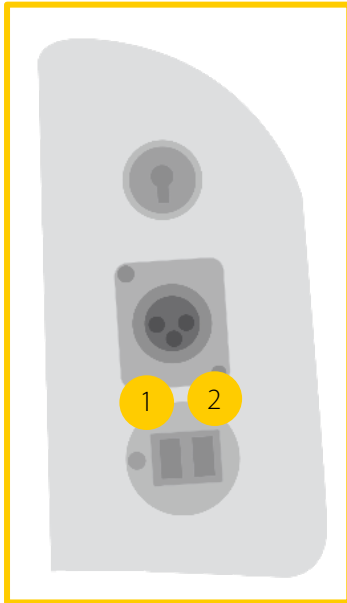
## 9.12 Windscreen Washer

The windscreen washer bottle can be found to the left of the dashboard. It is recommended that you use a mild mixture of windscreen fluid and water. To activate the washer simply press the  button located on the left hand side of the dashboard for a few seconds. Use the windscreen wiper or a windscreen squeegee tool to clean and clear the screen.

It is recommended that you refill the reservoir before it is fully empty. Never run the washer jet without fluid as this may damage the pump. The top tank is a top-up tank only, do not attempt to fill this to the brim as it may cause leaks.

## 9.13 USB Chargers

The Cabin Car is equipped with USB charging ports on the right hand side of the tiller column. The two USB ports provide different power outputs. Smaller devices or those with older hardware will perform best in the left port (port 1), while newer devices will work better in the right port (port 2). The power delivery by each port is: USB 1: 5v – 0.5amp, USB 2: 5v – 2.0amp. USB Port 1 can be identified by the LED light next to it.



*Figure 4 - (A) USB charge ports*

## 9.14 Cup Holder


For your convenience the Cabin Car is fitted with a bottle/cup holder. It can be opened by pulling down on the upper ring. The lower ring will follow.

**TIP:** The cup holder should never be used to store alcoholic beverages.



*Figure 5 - Tiller mounted cup holder*

## 9.15 Internal Heater

The heater supplied with the cabin Car is an electric fan heater that can be used to warm the air inside the Cabin Car. It is activated by the  button on the right hand side of the dashboard. When the heater is active you may hear the fans, and the button will illuminate to indicate that the heater is on.

## 9.16 Rear Parcel Shelf

The rear parcel shelf is designed to carry light loads of less than 5lbs. It houses the rear lighting cluster it is important to avoid over-loading it with weight, as this can damage the lighting components.



*Figure 6 - Rear parcel shelf*

## 9.17 Internal Charge Port

Charging the Cabin Car can be done from both the inside and outside. The inside port is located on the tiller column on the right hand side. To charge the vehicle, simply connect the supplied charge cable to the port. There is no difference in the speed at which the Cabin Car charges compared to the external charge port.

**TIP:** Do not leave the Cabin Car on charge permanently. This will damage the battery and it will require replacement faster.

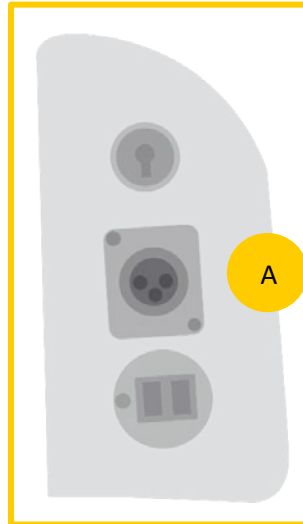


Figure 7 - (A) Tiller mounted charge port

## 9.18 External Charge Port

The external charge port can be used to charge the Cabin Car even when the car is locked. The port and supplied cable are weatherproof, but in heavy storms it is not recommended for use. Open the port cover, and lift the dust cap to access the port. Insert the head of the provided connector, making sure that the area is clear of debris. Do not leave the charger in place permanently as this can damage the batteries.



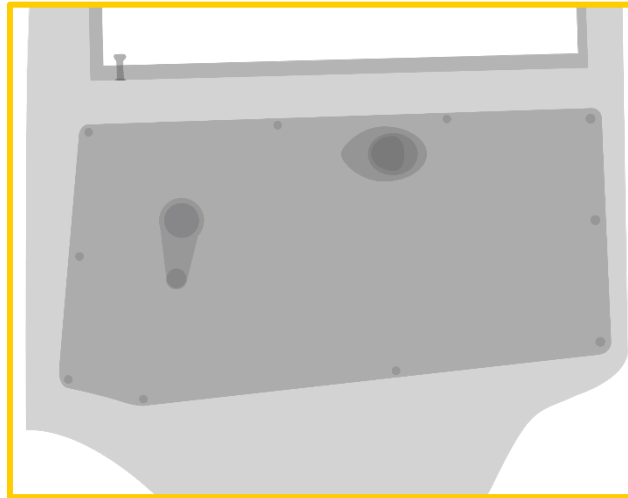
*Figure 11 - Closed external charge port*



*Figure 8 - External charge port open with external charge lead plugged in*

## 9.19 Window Controls

The windows in your Cabin Car can be rolled down to allow air to flow through the cabin. Each window is individually controlled by a winding mechanism located below the window. For safety reasons the wide windows will not lower all the way, rather they will stop a few inches from the bottom of the window. Always ensure that the windows are closed fully when leaving the car unattended.



*Figure 9 - Door card with handle and window controls*

## 10 Maintenance

### 10.1 Replacing Bulbs

LEDs are longer lasting than traditional bulbs, but they will eventually fail. Replacement bulbs can be purchased from the company that supplied your Cabin Car. Replacing bulbs should only be done by a certified Scooterpac retailer, as it involves dismantling units that should be properly resealed.

### 10.2 Battery Care

The battery assembly in your Cabin Car should not require any maintenance on a day to day basis, however access may be required occasionally. The battery is located under the seat, protected by a plastic shroud.

To access the battery, first the seat must be removed. This can be done by pulling directly upwards, taking care not to damage the rest of the cabin car whilst doing so. The battery cover is screwed into the floor with four screws which need to be removed. The cover should now lift off easily, revealing the battery.

Once maintenance has been carried out, ensure that all four screws are used to replace the battery cover securely without crushing or bending any wires. Replace the seat and test the fitting for tightness to avoid danger to any driver with reduced mobility.

### 10.3 Fuses

The fuses used on the Cabin Car are accessible through a covered hatch on the front of the tiller. To access the fuse board, simply pull down on the retaining clip and slide the cover out of place. Fuses should only be changed by professionals, as improper work may damage the Cabin Car electrical system.



Figure 11 - Fuse box located on tiller

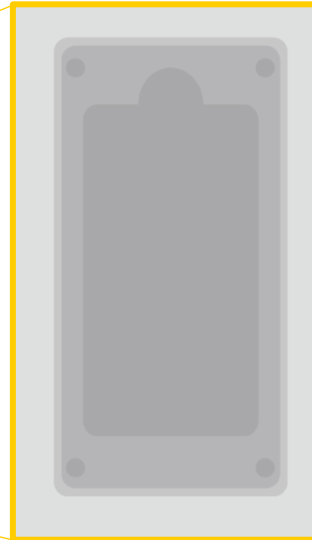


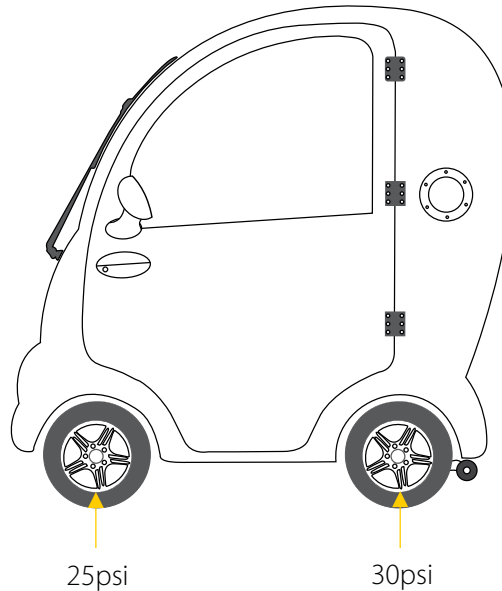
Figure 10 - Fuse box cover

## 10.4 Tyre Pressures

The tyres on the Cabin Car are designed to give a good balance between comfort and fuel efficiency. Incorrectly inflated tyres may lead to poor handling, reduced range and increased wear on the tyres. The tyre should always have at least 3mm of tread to provide adequate grip on the road surface. If the tyres become worn they should be replaced before the car is used.

Front tyre pressure: 25psi

Rear tyre pressure: 30psi



## 10.5 Cleaning

### 10.5.1 Carpets

The interior carpets of the car should be cleaned using a vacuum cleaner with an upholstery brush attached. For stains, a mild mixture of upholstery soap and water may be used, ensuring that the area is thoroughly dried afterwards. Do not use bleach.

### 10.5.2 Door Cards & Seats

The door cards and seats of the cabin car should be wiped with a soft dry cloth. Do not use abrasive cleaning materials, and do not use bleach. To restore the deep black colour a vinyl cleaning spray may be used.

### 10.5.3 Paintwork

To care for the paint, regularly wash the car using soft cloths and a mild auto-detergent.

**Tip:** Never use boiling water to clean the Cabin Car.

Automotive polish can be applied to the Cabin Car to give a high-shine finish to the paintwork, and is recommended in areas where the car may be exposed to adverse weather conditions.

## 11 Warranty

The Cabin Car comes with a 12 month manufacturers warranty when purchased new from an authorised retailer. During the warranty period any part which becomes defective due to faulty workmanship or materials will be repaired by the Scooterpac retailer from which it was purchased. In the event that a repair cannot be completed a replacement part will be fitted.

If a manufacturing defect is found, it must be reported to the Scooterpac dealer from which the Cabin Car was purchased within 28 days in writing.

Items considered to have a limited lifespan including Batteries, Tyres and Windscreen wipers will not be covered if they are deemed to have undergone excessive wear and tear, or misuse.

The warranty does not cover damage arising from improper use of the product, after-market modifications made to the product, or accidental damage. The warranty is non-transferable.

The warranty does not extend to the consequential costs resulting from fault clearance, in particular freight and travel costs, loss of earnings, expenses, etc.

The manufacturer will not accept responsibility for any damage or injury caused by misuse or non-observation of the instructions set out in this user manual.

## 12 CCMK2 Specification

### 12.1 Technical Drive Specs

Motor	1400w
Batteries	75Ah x 2 (as standard)
Charger	Smart charger included
Lighting	Headlight: 24v 4w Indicator: 24v 1.7w Rear Light: 24v 1.7w
Dashboard	Digital dashboard display 4-Button Tiller Max Speed Dial Speed Mode Dial
Locking	Remote central locking Manual Locking
Tyres	Pneumatic 13"

## 12.2 Sizes & Weights

Class	Class 3
Weight Capacity	400lbs / 28 Stones
Speed <sup>1</sup>	8mph (UK & US Specification)*
Ground Clearance <sup>1,2</sup>	5.25" / 133mm
Length <sup>2</sup>	56" / 1422mm
Width <sup>2</sup>	27.25" / 692mm
Height <sup>2</sup>	56" / 1435mm
Tyres	13" / 330mm pneumatic tyres
Range <sup>1</sup>	75Ah: 22 Miles ** 100 Ah: 30 Miles **
Motor	Rear Wheel Drive Sealed transaxle 24 Volt DC Motor 1400w (4 Pole) motor
Brakes	Regenerative Electromechanical
Battery	Dual 12-volt deep cycle 75Ah & 100Ah Options
Max Incline <sup>2</sup>	12 degrees
Seat Back height <sup>2</sup>	28.75" / 730mm
Seat Width <sup>2</sup>	19" / 482mm

\* International Speeds: Available dependant on jurisdiction and local legislation

\*\*Range is measured on a smooth surface traveling at a constant speed. Real world mileage may be impacted by terrain and speed.

<sup>1</sup> Varies with user weight, terrain type, battery charge, battery condition, tyre condition.

<sup>2</sup> Due to manufacturing tolerances and continuous product improvement this specification can be subject to variance of +/-3%.

## 13 Servicing Intervals

The cabin car should be serviced every 12 months in order to keep it in safe working order. We recommend recording the services dates and locations on the sheets below. Always have your Cabin Car serviced at an authorised Scooterpac retailer, using original Scooterpac parts.

Year	Service		Next Service Due
Sample	Service Venue	<i>Scooter Shop Ltd</i>	<i>01.01.2019</i>
	Technician Name	<i>Michael Mathdon</i>	
	Date of Service	<i>01.01.2018</i>	
	Mileage	<i>3,489</i>	
	Notes	<i>Replaced rear tyres Tested batteries Filled washer fluid Tested front tyre pressures Adjusted tracking</i>	
	Signed	<i>Michael Mathdon</i>	

<b>Year</b>	<b>Service</b>		<b>Next Service Due</b>
Year One	Service Venue		
	Technician Name		
	Date of Service		
	Mileage		
	Notes		
	Signed		

<b>Year</b>	<b>Service</b>		<b>Next Service Due</b>
Year Two	Service Venue		
	Technician Name		
	Date of Service		
	Mileage		
	Notes		
	Signed		

<b>Year</b>	<b>Service</b>		<b>Next Service Due</b>
Year Three	Service Venue		
	Technician Name		
	Date of Service		
	Mileage		
	Notes		
	Signed		

<b>Year</b>	<b>Service</b>		<b>Next Service Due</b>
Year Four	Service Venue		
	Technician Name		
	Date of Service		
	Mileage		
	Notes		
	Signed		

<b>Year</b>	<b>Service</b>		<b>Next Service Due</b>
Year Five	Service Venue		
	Technician Name		
	Date of Service		
	Mileage		
	Notes		
	Signed		

<b>Year</b>	<b>Service</b>		<b>Next Service Due</b>
Year Six	Service Venue		
	Technician Name		
	Date of Service		
	Mileage		
	Notes		
	Signed		



**Lifestyle mobility products**

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