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### Symbols used

 Symbol indicates a warning

 Note containing information

## **OPERATION OF YOUR POWRTOUCH FREEDOM**

### **1: POWRTOUCH FREEDOM OPERATION:**

Carry out the Powrtouch Freedom pre-movement safety checks as Section 1 Paragraph 1.1; also ensure that the RV is safe to move and that there are no obstructions to prevent the engagement of the drive rollers to the RV tires.

### **2: SWITCHING ON THE POWRTOUCH FREEDOM**

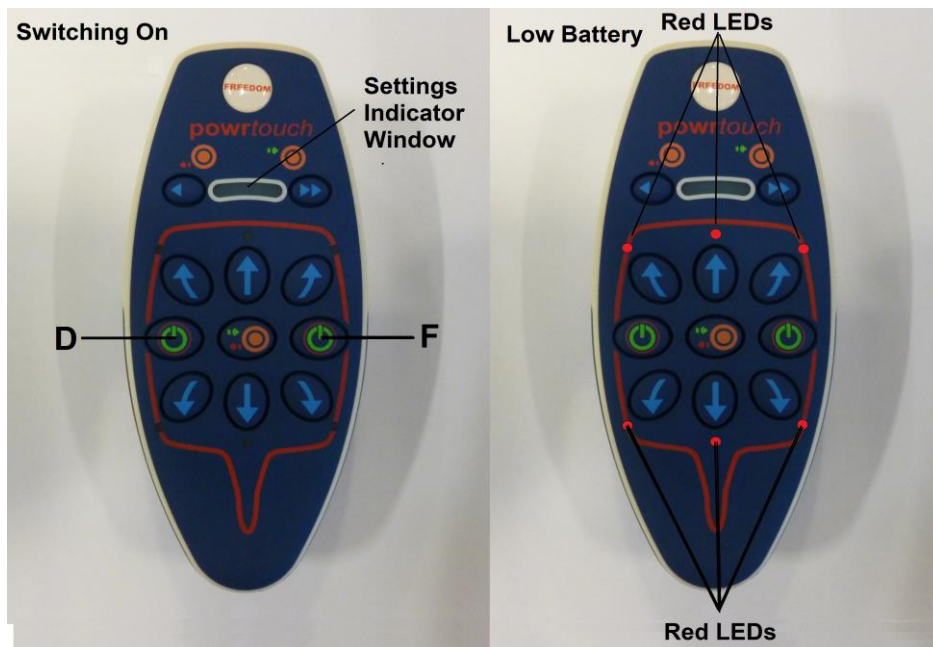
The Powrtouch Freedom control system is switched on by inserting the key into the isolation switch and then turning the key clockwise, the isolation switch is usually situated in the sealed area of the RV battery box. When the control board is switched on the unit first initialises, and then looks/waits for the welcome/coding signal from the handset. The green light should illuminate on the ECB situated in the RV. (See Section 5 Paragraph 5.3)

**[i]** When the Powrtouch Freedom is not in use it **MUST** always be turned off at the Isolation Switch and the key removed. If left switched on it will stay live for 20 minutes (approx.) before the ECB will go into a hibernation mode. The ECB can only be reinitialised by the following: -

- 1) Turning off the isolation switch
- 2) Remove the key from the switch
- 3) Wait for a minimum of 20 seconds
- 4) Then reinsert the isolation switch key and turn on
- 5) Turn on the handset and use the Powrtouch Freedom

## **WHEN NOT IN USE ALWAYS SWITCH IT OFF AND REMOVE THE KEY**

### **3: SWITCHING ON THE HANDSET**

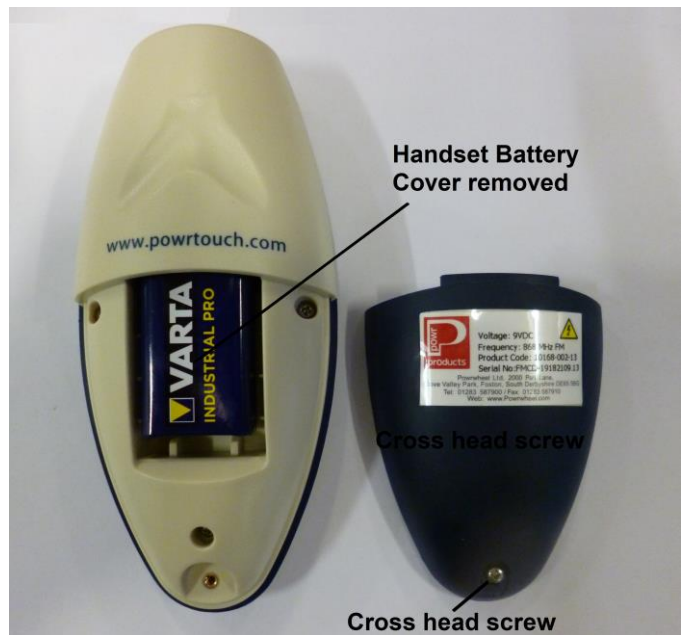


To switch on the handset press both the 'On' buttons (D and F) buttons at the same time. Release them both when the LED array lights up in the settings indicator window. Once it is ready to operate then one green LED on the extreme right of the settings indicator window will remain on. If the top row & bottom row of Red LEDs flash alternating, then this is an indication that the handset battery voltage is low and the battery should be changed as soon as possible.

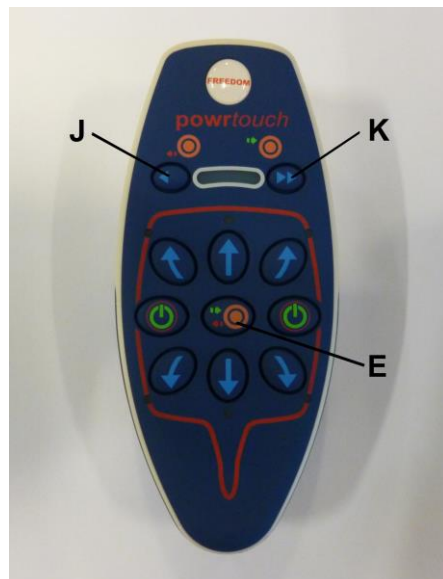
#### 4: HANDSET BATTERY REPLACEMENT

To replace the handset battery the first step is to remove the small cross head screw on the back of the handset. When the small cross head screw is removed the battery box cover can be taken off providing access to the battery. The battery can then be removed from its connections and a new battery can be installed and the cover replaced. The battery required is a 9-volt DDC MN1604A or 6LR61.

**i** The use of rechargeable batteries is not recommended



#### 5: ENGAGEMENT OF THE ROLLERS ONTO THE TIRES



**i** If the actuators have been started by accident and need to be stopped immediately then press either of the 'On' buttons (D or F), see Emergency Switch Off - See Section 1 Paragraph 1.2.

With both the Powrtouch isolation switch and handset switched on then: -

1. Press and hold the 'Function' button (E)
2. Press the 'Roller Engagement' button (K) and then immediately release BOTH the E and K buttons
3. The green LEDs in the indicator window will scroll to the right. All 4 green LEDs will then flash as the mover is finalising its engagement cycle.
4. Always check that **ALL** rollers are fully engaged on to the tires of the RV before removing the handbrake. This can be done visually by checking the yellow Roller Position Indicator is in the correct position as shown below.
5. Always ensure that both sides have fully engaged before moving the RV.

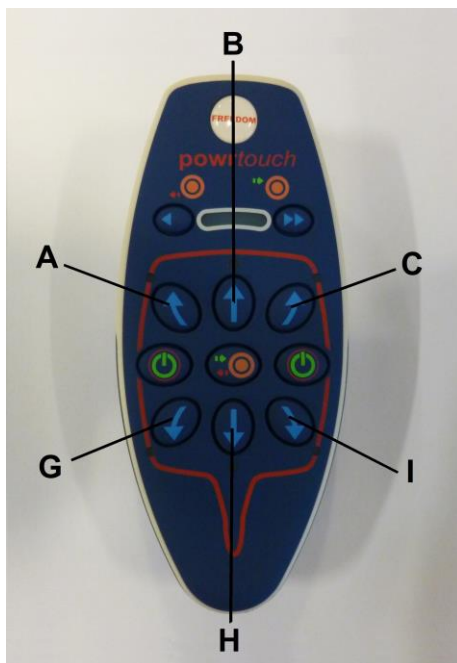
**⚠ DO NOT ATTEMPT TO MOVE THE RV UNTIL THE MOVER HAS FULLY PARKED I.E ALL 4 GREEN LEDs HAVE STOPPED FLASHING.**



Roller Position Indicator  
Showing Roller in the ON Position

**⚠ Once the Rollers are engaged ONLY then disengage the handbrake when you are ready to use the Powrtouch Freedom.**

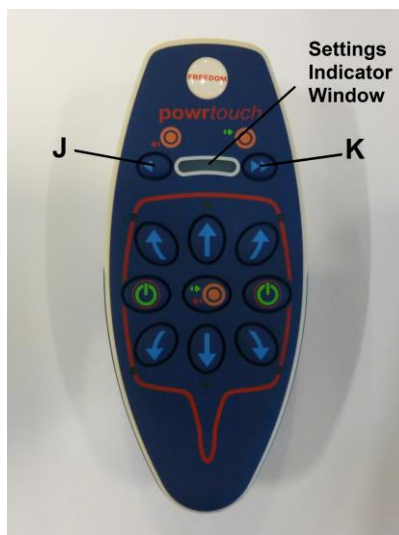
## **6: MOVING THE RV (HANDSET OPERATION)**



The RV can be moved as required by pressing buttons A, B, C, G, H or I. The RV will move in the direction of the arrows printed on these buttons. Pressing opposite button A and I or C and G will make **single axle RVs (only)** rotate on their axis. The Electronics Control System also has a continuous movement capability in that if button B is being pressed then buttons A or C can be used, alternatively if button H is pressed then buttons G or I can be used, using this sequence will allow the Powrtouch to redirect the RV without stopping the forward or backward motion.

**[i] Please note that the speed settings will always default to MAXIMUM – Speed changes can only be made when the RV is stationary**

## **7: DECREASING AND INCREASING SPEED**



When the handset is first switched on the settings indicator window will always show an illuminated green LED to the extreme right-hand side of the window and this is the default position of maximum speed (100%). The speed can be decreased by pressing the 'Speed Decrease' button (J), each time this button is pressed the speed will decrease by 25% and the green LED will move in the window to indicate the speed setting selected.

**i** The minimum speed setting is 25%. As the speed decreases the torque decreases in the same ratio i.e. 50% speed is 50% torque. This function of using a slow speed with lower torque setting is designed to maintain the RV's manoeuvrability in very restricted and/or confined spaces.

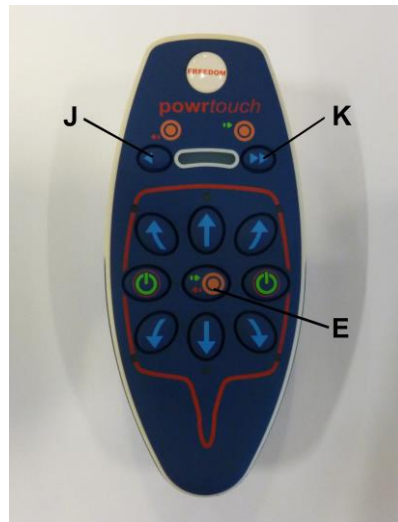
If the Powrtouch is not at its maximum speed, then the speed can be increased in 25% increments by pressing the 'Speed Increase' button (K). When changing the speed of the Powrtouch, the illuminated green LED will move (a maximum four stages) from the left to the right of the meter; when the LED is positioned at the extreme right of the display this indicates the Powrtouch has returned to the maximum speed setting. The speed can only be changed when the RV is not moving.

## **8: PRECISION CONTROL OF THE RV USING THE ELECTRONIC SOFT START FUNCTION**

By utilising its very effective Electronic Soft Start System the Powrtouch Freedom can easily move the RV a distance of 1mm (0.04 inch) at a time. This small movement can be achieved by pressing and quickly releasing a direction button, this facility makes attaching the RV to the hitch of the vehicle, a simple operation. Reducing the speed will also give greater control of the RV when using the soft start in this way. It is recommended that a good practice session should be carried out on level ground and in an open space before any difficult manoeuvres are undertaken.

## 9: RETRACTION OF THE ROLLERS FROM THE TIRES

**⚠ ALWAYS ENSURE THE RV HANDBRAKE IS ON BEFORE DISENGAGING THE ROLLERS FROM THE TIRES**



**[i]** If the actuators have been started by accident and need to be stopped immediately then press buttons D or F, see Emergency Switch Off - See Section 1 Paragraph 1.2.

With both the Powrtouch isolation switch and the handset switched on then: -

1. Press and hold the 'Function' button (E)
2. Whilst holding button E press the 'Roller Disengagement' button (J) and then immediately release BOTH E and J buttons
3. The green LEDs in the indicator window will scroll to the left. All the green LEDs will then flash as the mover is finalising its disengagement cycle.
4. Always check that **BOTH** rollers are fully disengaged from the tires of the RV before attempting to drive away. This can be done visually by checking the yellow Roller Position Indicator located in the correct position as shown below.

**⚠ DO NOT TURN OFF THE RED ISOLATOR KEY UNTIL THE MOVER HAS FULLY PARKED. I.E ALL 4 GREEN LIGHTS HAVE STOPPED FLASHING.**



Roller Position Indicator  
Showing roller in the OFF position

**[i]** The rollers can be removed manually from the tires in the unlikely event that they do not retract electrically. (e.g. flat battery) To do this:

1. Switch off the isolation switch by turning the key anti-clockwise and removing.
2. Remove the end plug (shown in the picture below).
3. Insert the manual removal tool (T Bar) and turn 30 times anti-clockwise.



#### 4. If in doubt consult Truma.



### 10: SWITCHING OFF THE UNIT

The handset does not need to be turned off manually, except in the case of an emergency (See Section 1 Paragraph 1.2). If the handset is left unused for 3 mins approximately it will automatically turn itself off. However, once you have finished using the Powrtouch Freedom RV mover, ensure the unit is switched OFF with the isolation switch and the key is removed.

### 11: MAPPING (Tuning/Coding) INSTRUCTIONS – Given for Information ONLY

All electronics systems are supplied with the handset mapped (tuned/coded) to the ECB, should you require to map or remap the system the sequence is as follows: Using the plastic needle provided (attached under the hinged lid of the ECB) press the remap button through the small hole (labelled 'R') in the lid of the box, this enables the control board to search for a signal. Then switch on the handset, and it will transmit a welcome mapping signal to the control board and the system will automatically code.

### 12: FITTING AND REMOVAL OF THE SIDE COVERS



To fit the side-cover insert the three lugs on the side-cover into the three holes on the metalwork as shown in the picture above. Push the side-cover until the lugs click in place. Secure the side-cover with the retaining screw. Insert the retaining screw into the screw hole as shown in the picture above. Do not over-tighten the screw.

To remove the side-cover unscrew the retaining screw until free and pull the cover directly toward you.