

**POWRWHEEL LIMITED MANUFACTURERS OF INDUSTRIAL
TRAILER & EQUIPMENT MOVERS**

**INSTRUCTIONS For the
Operation, Usage, Safety & Maintenance of**

**POWRHITCH
INDUSTRIAL MOVER**

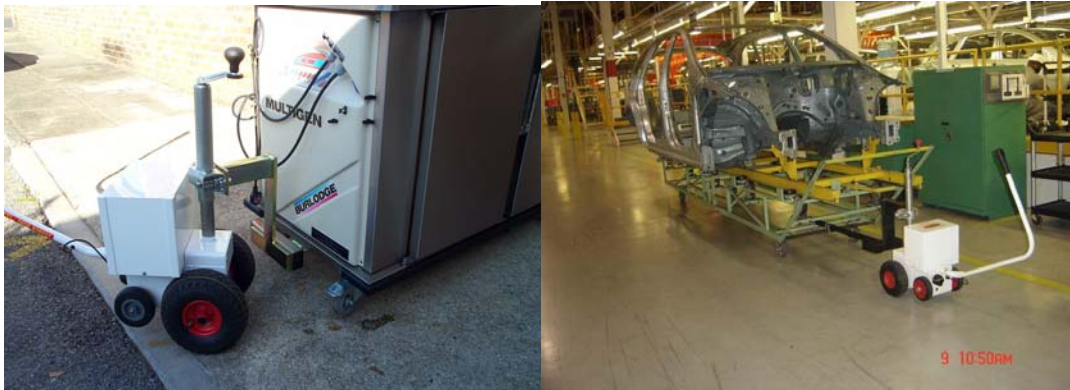
CUSTOMER NAME:

GUARANTEE:

Powrhitch Serial No:

Dated:

Is guaranteed against any material (except battery if supplied) or manufacturing faults for a period of one year from the above date, providing that the following instructions have been adhered to and that the Powrhitch has been properly used. For any clarification or claim please contact Powrwheel Limited at the address shown below.



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NOTE: This document is based upon the use of a standard Industrial Powrhitch and the requirements for the use of a bespoke unit may vary slightly from following instructions.

GENERAL DESCRIPTION:

The Powrhitch Industrial mover is a compact 12 volt or 24 volt battery powered four wheel tractor unit (Note - only two wheels are powered) that can be supplied with a variety of power, speed, motor and battery options. It has the capability to be connected to most types of trailers or moving trolleys using a variety of off-the-shelf and/or bespoke attachments. The maximum weight currently that we are able to move is 5000kgs, (NB this would be under ideal conditions i.e. flat, smooth surface)

The Powrhitch is powered by two driving wheels and can be quickly moved between requirements by the use of the two smaller (non Powered) quick movement or transport wheels. Forward and backward motions are available by pressing and holding in place the rocker switch on the handle. The mover will automatically go to full speed unless it has the soft start option fitted in which case it will pick up slowly to full speed (useful when moving particularly heavy loads). Full speed of the mover will vary depending upon what motor or power options are used, it can vary between 0.5 kph to 4 kph. The Powrhitch will stop immediately if the switch is released (dead mans handle). Steering is carried out manually by the use of a tiller handle that is adjustable to allow a view to either side of the trailer or object to be moved.

As the Powrhitch must have a down force on the driving wheels to get traction to move the trailer, the bracket or attachment system must be designed in a way to generate or create this force. When the Powrhitch is in motion only the two driving wheels should be in contact with the ground, the quick movement wheels must be raised, failure to get the mover to this position will result in difficulty in steering and possible loss of traction.

FITTING THE UNIT:

Using the quick movement wheels and/or the driving wheels as required will allow the Powrhitch to be moved to the position required to connect to the trailer. The unit must only be connected to the trailer or object to be moved with the standard or bespoke attachment provided. The jockey post or lifting mechanism should be used to raise the trailer to obtain down force to the Powrhitch; the ideal position for the Powrhitch should be that the body is set in a horizontal position with the smaller quick movement wheels fully raised off the ground. Before moving off (see using the mover below) a short initial movement of the Powrhitch will ensure that it is safely connected to the trailer or object to be moved.

USING THE MOVER:

When using the Powrhitch safety must be paramount. Therefore it is advisable to always have another person present to ensure that the Powrhitch is properly connected to the trailer and that it is moving correctly and safely. If the Powrhitch is fitted with a self contained battery then it is ready to move immediately it is properly connected to the trailer. If a battery is not fitted then an external battery supply will be required. This battery should always travel with the Powrhitch and therefore must be safely fixed to and stored on the trailer or object to be moved. A battery connection cable will have been supplied to allow the Powrhitch to be connected to the battery, (N B only the cable supplied must be used), the cable has a 7 pin plug that connects to the rear of the Powrhitch (opposite tiller handle) and has crocodile clips to connect it to the battery. The cable will be colour coded and should be connected red to the (+) positive terminal of the battery and blue to the (-) negative terminal. If these wires are connected incorrectly it will result in the Powrhitch moving in the wrong direction (i.e. when pressing down to move forward the trailer will go backwards – see below).

The tiller and control handle is removable from the Powrhitch for transport, storage or security reasons. When fitting the handle always ensure that it is pushed properly into place and secured with the locking pin, also ensure that the 3 pin or 4 pin (speed control movers only) electrical connection is made between the handle and the Powrhitch unit. On speed control model only the Powrhitch is fitted with a key lock that must be switched to the on position. The Powrhitch is powered by pressing the rocker switch on the handle either downwards to go forward or upwards to go backwards (Note – These directions of movement can easily be reversed and should always be checked before use of the mover), steering is carried out by moving the tiller handle to the direction required to move. If the Powrhitch is fitted with a soft start and/or speed control (optional extras) then the soft start is automatically operated when the Powrhitch switch is pressed to go either forwards or backwards. The speed control is either a rotary switch situated on the top of the handle,



or a twist grip throttle,



before attempting to

move the Powrhitch it is advisable to set the switch or throttle to its slowest position. This is done by turning the switch anti-clockwise as far as it will go or leaving the throttle in the rest position. When the Powrhitch starts to move (by pressing the rocker switch) then the speed can be adjusted by the rotation of this switch or by slowly twisting the throttle.

CHARGING THE BATTERY:

If the Powrhitch is fitted with a battery and a charger, then a charging lead will have been supplied, the connection of this lead to the Powrhitch is via the 7 pin plug situated at the rear of the unit. The battery charger maybe a dual purpose 12v & 24v, if this is the case always ensure that you are using the correct charging voltage. It is expected that the a Powrhitch will operate continually over 6 hour period and therefore a charging regime depending upon the user requirements will need to be established. The battery (if not maintenance free) will require period checks in accordance with its user instructions.

SAFETY:

- SAFETY IN THE OPERATION OF POWRHITCH IS PARAMOUNT IF UNSURE STOP AND ASK
- Always ensure that you have a responsible person to assist in the connection and moving of the trailer or object to be moved.
- Always check that the Powrhitch is moving in the direction that you require on the rocker switch, this switch is easily removable and can be rotated to the correct position.
- If using an external battery source always ensure that the cable is secured to the trailer/mover and is not left trailing where it could get caught in either the trailer or Powrhitch.
- Always ensure that the areas you are moving from and to are clear and free from obstructions
- If in doubt stop the manoeuvre and check or ask for assistance.
- If the unit is not fitted with foam filled tyres always ensure they are correctly inflated to 50 psi.

MAINTENANCE & STORAGE OF UNIT:

Although the unit is designed to be used outdoors in adverse conditions it is recommended that it is not left out in the rain or stored in a wet environment as this could affect the switch and control mechanisms.

If required the tiller handle can be removed from the Powrhitch and locked away to prevent the misuse of the unit or operation by untrained person(s).

It is advisable to keep the tiller shaft and bore on the handle clean and lightly greased

The unit requires very little maintenance except that required for the battery and should always be kept clean and tidy.