

## Using your Caravan Mover with Quattro® Technology

It is, of course, impossible for a twin-axle caravan to be manoeuvred in the same way as a single-axle as the turning circle is greatly increased compared to a single-axle caravan. Also, the amount of different manoeuvres required to locate/park your caravan is increased.

However, the advanced electronics of the Quattro® electronics take care of the manoeuvring whilst also taking care of your caravan.

**For example:**

**When the caravan is turning, the motors provide lower rotational speed on one side to help enable direction change. This enables the caravan to manoeuvre with minimal tyre 'scrub' or being dragged along the ground, which can cause undue stresses on its tyres, wheel hubs and chassis.**

It is also a possibility that when operating a two motor twin-axle system, on very uneven ground, one of the wheels driven by the mover will not make adequate contact to continue progress. If this occurs, you will need to move the caravan in a different direction until adequate traction is regained.



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# quattro®

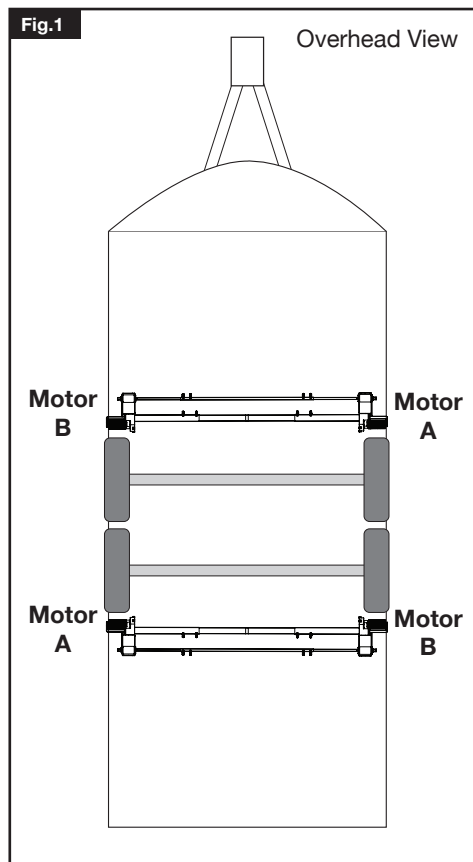
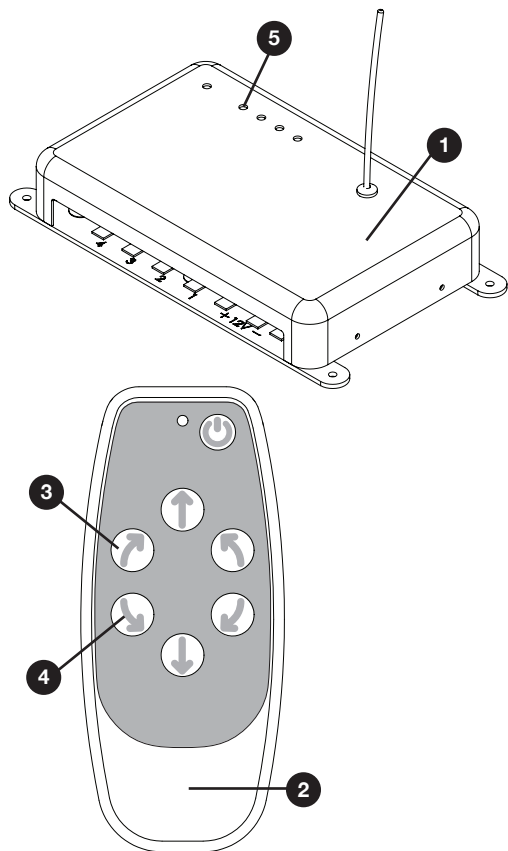
## Advanced Caravan Mover Electronics



Model Number: CM-037

Ref: CM-037-UM-0311-Rev.A

## Parts Identification / Diagrams



## Guidelines

Quattro® electronics are suitable for single and twin-axle caravans utilising two or four motors and are designed to be used with Purple Line® Ego® and Enduro® caravan mover systems.

This manual is intended as a supplement to the main User Manual supplied with a Purple Line® caravan mover system. This manual only references the features and benefits of the Quattro® electronics and the correct wiring installation when used in conjunction with the mechanical parts of the caravan mover which are detailed in the main User Manual.

If you purchased the Quattro® electronics as an upgrade, your existing Control Unit and Handset that were originally supplied must not be used; please utilise the Quattro® Control Unit and Handset.

**Note:** Your caravan mover manual may reference being able to press two buttons on the remote control at the same time so that both motors rotate in opposite directions to enable a single-axle caravan to rotate on its axis; when using the Quattro® electronics in twin-axle mode this function is disabled as it would cause undue stresses on the tyres and chassis.

## Installation

The Control Unit(s) (1) needs to be connected to the caravan mover motor units as follows (Please refer to Fig.1 depicting an overhead view of a caravan:

### SINGLE/TWIN AXLE FRONT OF AXLE FITTING

Motor A Positive (+) cable to terminal 3  
Motor A Negative (-) cable to terminal 4  
Motor B Positive (+) cable to terminal 1  
Motor B Negative (-) cable to terminal 2

### SINGLE/TWIN AXLE REAR OF AXLE FITTING

Motor A Positive (+) cable to terminal 2  
Motor A Negative (-) cable to terminal 1  
Motor B Positive (+) cable to terminal 4  
Motor B Negative (-) cable to terminal 3

**NOTE:** When installing a four motor system it may be necessary to utilise heavier gauge cabling between the battery, isolation switch and Control Unit as well as upgrading the in-line fuse. Please consult your dealer or visit [www.purpleline.co.uk](http://www.purpleline.co.uk) for further details.

## Single Axle and Twin Axle Mode

The following procedure depends on whether you are using the Quattro® electronics for a single axle or twin axle caravan:

**To enable Single-Axle Mode:** Install only 2 of the 3 'AAA' batteries into the battery compartment of the handset (2). Hold down button (3) and, at the same time, install the final battery. The handset will sound single beeps. The electronics will now operate in single-axle mode.

**To enable Twin-Axle Mode:** Repeat the above procedure but hold down button (4). The handset will sound double beeps. The electronics will now operate in twin-axle mode. This mode is used for twin-axle caravan installations that use two or four motors.

## Pairing the Handset and Control Unit(s)

When operating a full Quattro® four motor twin-axle system, only one handset is used to communicate with both Control Units. The handset will need to be paired or linked to both control units using the following procedure:

Press the Reset button (5), the green LED will flash for 10 seconds. Press the power button on the handset twice whilst the Control Unit's LED is still flashing. The green LED will then be on without flashing. The remote control and Control Unit are now paired. Repeat this procedure with the second Control Unit.

## Operation - Control Unit & Handset

### IMPORTANT!

Please refer to the main User Manual supplied with your Purple Line® caravan mover for details of the operation of the Control Unit and Handset as the LEDs, diagnostics and button function are the same.

Before proceeding with installation and starting to use the mover, please refer to the main User Manual supplied with the caravan mover for safe use!

The owner of the caravan will always be responsible for correct use. Retain this manual for future reference.

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