

# Fitting instructions

The Rhino unit is designed to fit in a simple but secure way to your caravan.

## Tools required:

**17mm socket or ring spanner**  
**Standard screwdriver**  
**Phillips screwdriver**  
**Wire cutters**  
**A power drill**  
**22mm spade drill**  
**Scissor car jack or trolley jack**  
**Matt or ground covers for lying on**

Prepare your caravan. Ensure there is sufficient ground clearance and the front of the caravan is raised to allow you to have access to the underneath of the caravan.

Apply the hand brake and have at least two legs lowered whilst working under the caravan.

Remove all security wheel clamps.

Clear the bunk or cupboard at the rear of your battery box ready for the positioning of the electric control box.

The first step to successfully fitting your Rhino Caravan Mover is to ensure that all the components are laid out together and to check that all the following parts are included:

**8 x M10 nyloc nuts**  
**8 x M10 X80 high tensile bolts**  
**8 x self-tapping screws**  
**1 x control module**  
**1 x handset**  
**1 x aux cable**  
**2 x bottom plates**  
**2 x middle plates**  
**2 x top plates**  
**1 x red lead short**  
**1 x red lead long**  
**1 x black lead long**  
**1 x isolator switch with key**  
**12 x cable ties**  
**2 x shear bolts**  
**1 x cable grommet**

Mount one of the motor units onto the jack or wooden blocks and raise into position as shown below.



Place the intermediate clamp plate and then top plate to match as shown.

Fit the bottom plate and one bolt with a nut and washer. Repeat for other three bolts.

Ensure the unit can slide freely along the rail of the chassis.

Repeat for the other side motor unit.

Unclip the grey end cap and loosen all gripping bolts

Slide in centre bar to one motor unit and slide through to meet the other.

Ensure the unit is centred as shown on each wheel and make reference to the centre mark on the centre bar. Allow clearance all around and make sure the mover does not catch the tyres.

Tighten all gripping bolts on to centre bar.

Start to tighten clamp set bolts ensuring the units remain centred and use a wooden spacer dowel to set tyre clearances to 22mm.

Tighten all bolts fully, secure the cable across the centre bar using the cable ties.

Feed the control wires up through a free vent hole in the floor, or drill a 20mm hole in the floor to feed wire through close to battery box, use cable clips to secure cables to underside of caravan floor. If you have drilled right through the floor use a silicon sealant to seal the hole.

Connect the electric box as shown, right and left-hand conventions are to be followed when you are looking to the front of the caravan. At this point please refer to the note below on tuning control boxes.

Handsets are not tuned in prior to leaving the works, so please follow the instructions below:

- Ensure power is on via the red key switch
- Ensure your handset is switched on
- Press the small button as shown below
- Keep button pressed and at the same time press any button on the handset
- This will immediately tune the handset to the control box

Make connections to live and negative on the control box and feed through rear of the battery box.

Feed red and black wires through.

Make secure metal-to-metal connections to live and neutral on battery terminals.

Ensure on/off switch is mounted in the line of the positive line to the battery. Connect On/Off Switch.

Use 22mm spade drill to make mounting hole for On/Off switch through battery box, usually underneath the hook up connector.

Another suitable location may be required. **WARNING** - *do not position near a gas bottle.*

**WARNING** - *do not use your mover without an On/Off switch being fitted.*

Coil up excess wiring and cable strap into neat 300mm diameter coils and secure under bunk. Ensure all terminals are tight. Replace covers.

You are now ready to start using your mover, please refer to the **operating instructions** on our website - [www.rhynomovers.com](http://www.rhynomovers.com).



# Warranty Details

Your Rhyno Caravan Mover has been designed and built to give the user the very best in performance and reliability.

Mechanical reliance with good service is based on good care, correct usage and correct installation as detailed in the installation instruction; it is designed to give many years of reliable service.

This is a limited warranty; the parts covered are detailed below:

The motors are covered for a period of five years from date of purchase. The motors are covered against poor workmanship and non-conforming components. The motors are not covered for loss or immersion in fluids or liquids of any type, water or flood damage, road accident damage, poor installation or faulty workmanship arising from a poor installation (for self-installation only), or fair wear and tear. The motors must be cared for as per the aftercare and cleaning directions contained in this leaflet.

The electrics are covered for a period of five years from date of purchase. The electronics are covered against poor workmanship and non-conforming components. The electronics and handset are not covered for loss or immersion in fluids or liquids of any type, water or flood damage, road accident damage, poor installation or faulty workmanship arising from a poor installation (for self-installation only). Interference with the electronic controls in any way, by anyone other than an appointed Rhyno service engineer (unless otherwise advised in writing) will invalidate this warranty. The electronics and handset must be cared for as per the aftercare and cleaning directions contained in this leaflet.

The mechanical components of the mover are covered for faulty materials and poor workmanship. The exclusions are corrosion caused by road salts or chemicals, accidental damage, fair wear and tear, poor installations (for self-installation only) and loss.

The roller system is not covered by the warranty as these are considered to be wearing parts to be replaced as necessary. These are available from our online shop.

Batteries are not supplied with the mover; these are your responsibility at all times.

This warranty is not automatically transferable; a small charge will be made to transfer.

In all cases and without exception this warranty will be deemed void if the electronic components or motors are interfered with or modifications made to the mover in any way.

In the event of an issue please refer to the trouble shooting guide enclosed, or on our website.

If you are still having problems call us on 02476 387080 with your invoice to hand and we will endeavour to help and address the issue as quickly as possible. We reserve the right to send an engineer to investigate and report as to the fault.

In most cases, should replacement parts be required, they will be sent to the engineer who will liaise with the owner to arrange a date for the parts to be fitted. In the event that the mover was a self-fit package the parts will be sent direct to the owner for fitting. In some instances your mover may have to be returned to our works for work to be carried out. You may be asked to replace small components with our reference to an engineer; you will be given full instructions if required.

**In all cases, we are committed to handling your claim in an efficient and friendly manner. We assure you of our very best attention and assistance at all times.**

We will respond in a reasonable and fair application of the contents of this warranty in the quickest time scale available to the company.

