

User's Guide



GP360 & GP500 Fusion Pulse

Mobile Welfare Accommodation Units



from **groundhog**



This manual contains important operating procedures, safety instructions and servicing information in regards to your Groundhog.

The Groundhog manual contains guidance, advice and helpful cautionary notes that will inform you how to operate your Groundhog correctly.



GP360

Seating for up to **6 people**



GP500

Seating for up to **12-14 people**

Generator room

NOTICE!

- Clothing must be positioned on coat hooks supplied
- Do not store tools or equipment
- No flammable substances
- No smoking or naked flames

Canteen area

NOTICE!

- No smoking
- Do not store tools or equipment in this area
- No naked flames or flammable substances
- No electrical extension leads or additional white goods

Toilet area

NOTICE!

- Do not store tools or equipment
- No flammable substances
- No smoking or naked flames

All information, Photographs, illustrations and specifications in your Groundhog manual are based on the latest information at the date of publication.

Certain information in this manual is governed by law and is subject to change without prior notice. Great care has been taken to ensure that the information is correct at the time of publication.

However, it is the user's sole responsibility to ensure that they fully comply with all legal requirements.

Groundhog Genquip will not accept liability for any inaccuracy or incorrectly stated legal requirements.

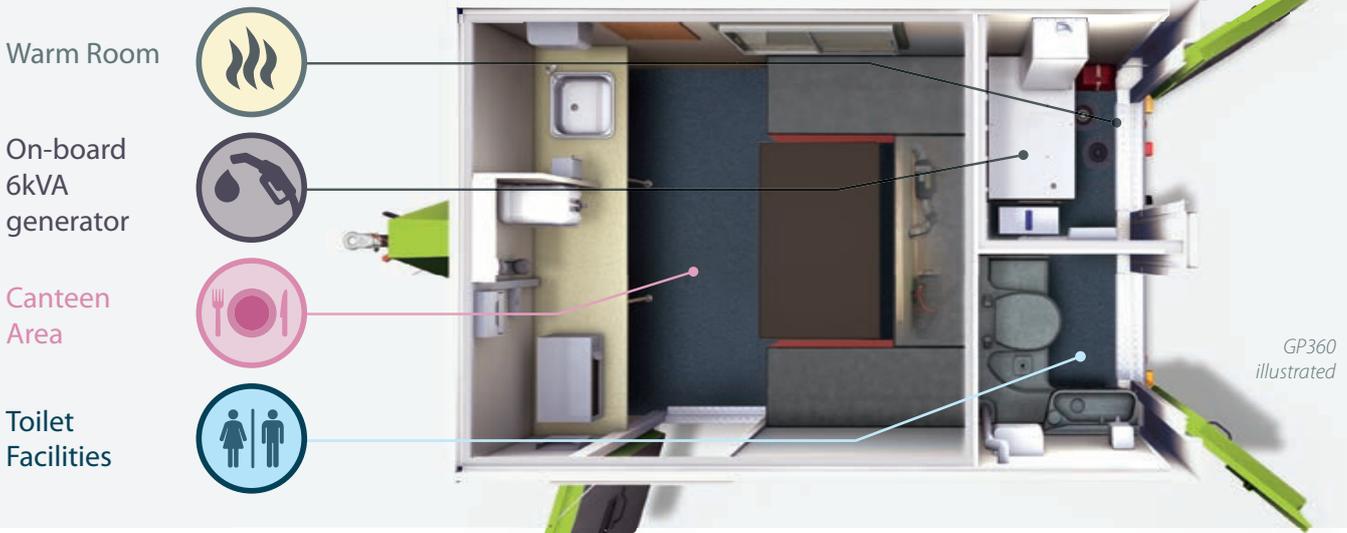
Regular inspection, servicing and periodic maintenance will ensure many years of trouble free operation.

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Description

The Fusion Groundhog Mobile Welfare range are road towable welfare units suitable for up to 6 people.

This self contained unit has a toilet/washroom, a drying room, a kitchen/restroom and an office.

Electrical supply can be taken either from a mains hook up or from the built-in generator.

Its unique design means that raising and lowering the body requires little effort from the operator and takes just 3 minutes from disconnecting to being usable.

Guidance

The information and instructions included in this manual are provided to help you get the best possible service from your Groundhog.

To ensure that The Groundhog is used safely and responsibly, we strongly recommend that this manual is read by all users prior to its operation, and that the recommendations are followed at all times.

Groundhog operate a policy of constant improvement and reserve the right to change specifications without notice.

Approximate Weights & Dimensions	GP360 FUSION PULSE	GP500 FUSION PULSE
Dimensions	3655mm (l) x 2285mm (w)	5000mm (l) x 2300mm (w)
Dimensions inc. drawbar	4920mm (l) x 2300mm (w)	6320mm (l) x 2300mm (w)
Unladen Weight	1720kg	2450kg
Possible Gross Weight	1835kg	2565kg
Generator	6kVA	6kVA

Secured in less than 3 minutes.
(Single axle GP360 pictured.)



0 min

3 min

Warranty

Your Groundhog is covered by a 12 month warranty. Groundhog undertakes to replace or repair, free of charge, any defect which the company considers itself responsible for or materials within 12 months of the sale date, except for:

- Defects arising from neglect, misuse or unauthorised modifications.
- Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow transportation, storage, loading or operating instructions.
- Alterations, additions or repairs carried out by persons other than the Manufacturer or their recognised distributors.
- Transportation or shipment costs to and from the Manufacturer or their recognised agents, for repair or assessment against a warranty claim, on any Mobile Welfare Unit or component.
- Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.
- Faults arising from the use of non-standard or additional parts, or any consequential damage or wear caused by the fitting or use of such parts.
- Any white goods fitted, i.e. microwave, kettle etc. are only covered by a 3 month warranty period.

Modifications

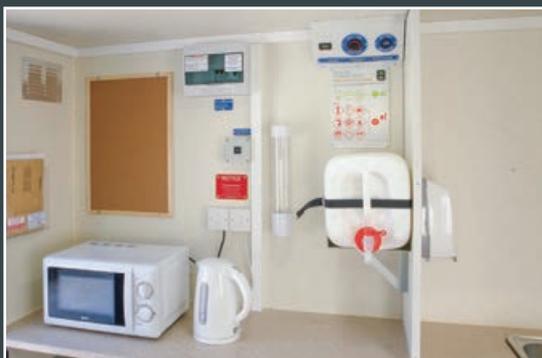
If additional equipment or any third party work, modifications or alterations are to be carried out on the Mobile Welfare Unit which will involve any welding, drilling or any form of cutting or distortion of materials, full written approval must be obtained from the Manufacturer prior to the work being carried out.

IMPORTANT

Warranty may at the sole discretion of the Manufacturer be void if the scheduled service/inspections are not carried out in accordance with the service manual.

The Manufacturer and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of/or the inability to use the Mobile Welfare Unit for any purpose.

Self contained unit: toilet/washroom, a drying room and a kitchen/restroom



Safety

Before using this equipment and to avoid personal injury, carefully read and understand these instructions. If there is anything you do not understand, DO NOT use this equipment, contact the supplier for advice.

Make sure you are aware of all safety requirements and that this equipment is suitable for the location.

When raising or lowering the unit, the area must be cordoned off to create a safe zone from the general public and bystanders.

This equipment must not be moved, set up, used or dismantled by persons who are under the influence of alcohol or drugs. Do not use this equipment if you are tired or unwell.

You **MUST** perform a risk assessment before siting this equipment to ensure your safety and the safety of others.

Wear suitable personal protective equipment whenever making adjustments to the unit.

Do not wear loose jewellery or clothing that may get in the way or become trapped in the mechanism.

Carefully inspect the Groundhog before towing or before use. If there is any doubt about its condition, **DO NOT CONTINUE**.

This equipment may only be used on level ground, which is able to bear its weight and its load.

Risk assessment

It is the user's responsibility to carry out a full risk assessment before using the Groundhog. The risk assessment should establish a safe zone including (but not limited to) ground, side and overhead hazards such as power supply and communication cables, lighting systems, drainage systems and other services.

Ensure that the ground on which the unit is being used is smooth, level and capable of withstanding the Groundhogs' weight plus its load.

If permission is required, obtain it before use.

Preparation for towing

Before towing the Groundhog, you must ensure that the fresh water, waste water and drinking water containers are emptied.

Switch the generator OFF.

Empty the toilet.

Pack away all utensils, cups, plates etc.

Lock all doors, window and protective shutters.

Work area preparation

Clear the ground area, where the Groundhog is to be used, of obstructions, anything that may puncture the tyres and similar items. Once the unit is in the work area, use

barriers and tape to create a safe zone. Keep bystanders and unauthorised persons away when setting the unit up.

Photo shows GP360

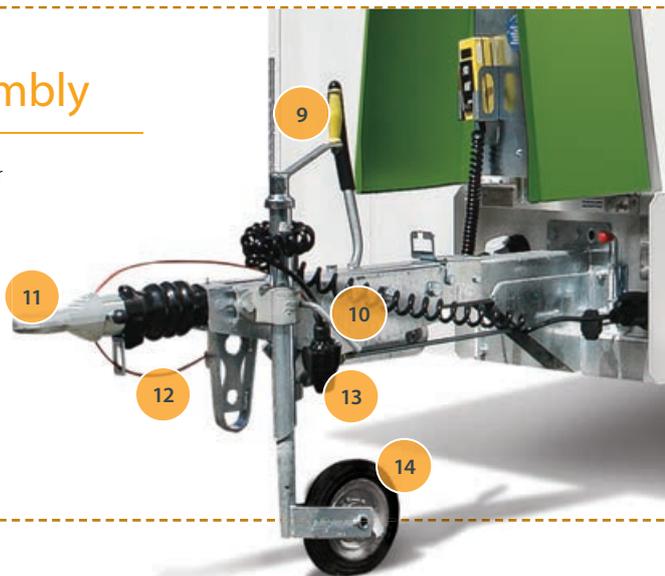


Exterior

- 1. Steel window shutter
- 2. Nosecone
- 3. Towing assembly
- 4. Hydraulic jacks
- 5. Wheels
- 6. Main entrance
- 7. Toilet/ washroom entrance
- 8. Warm room entrance/ generator area

Towing assembly

- 9. Parking Brake Lever
- 10. Jockey Wheel Securing Handle
- 11. Coupling Head
- 12. Breakaway Cable
- 13. Lighting Cable and Plug
- 14. Jockey Wheel



Road lighting

- 9. Light board
- 10. Recessed lighting socket
- 11. Light board plug
- 12. Dual voltage LED road lighting, compatible with 12V or 24V systems



Checking the tyres

Treads

Check treads on tyres.

1.60mm on cars, light vans and trailers across the centre three-quarters of the width (1mm for other vehicles)



Sidewall

Check for sidewall damage to tyres.



Side wall in good condition



Damaged side wall

Wheel rims

Check wheel rims are free of damage.

Wheel rim



Wheel nut indicators

Wheel nut indicators are a simple way to monitor your wheel nut tightness.

These wheel nut indicators give you a simple guide to any movement of a wheel nut.



Wheel nut indicators correctly aligned

Wheel nuts

Check wheel nuts are secured:

Tighten to 90 NM



Wheel nut indicators out of alignment

Tyre pressures

Check tyre pressures.

90 PSI

Towing coupling, safety cable and jockey wheel safety checks

1. Ensure that the breakaway cable is present and in good working condition.
2. Apply grease to grease nipples using suitable grease gun to lubricate damper.
3. Tighten M16x140mm coupling bolts to 197NM (Newton Meters).
4. Tighten M12x90mm coupling head bolts to 100NM (Newton Meters).
5. Check coupling gatar for damage.
6. Check ball or eye coupling for excessive wear.
7. Check handbrake protection skid.



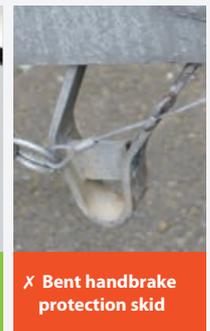
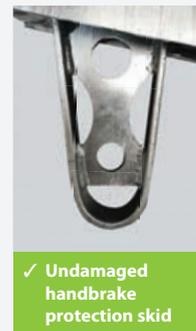
1. Breakaway cable



5. Coupling gatar



7. Handbrake protection skid



Damper

Ensure damper is in working order.



6. Coupling

Ensure coupling is secure and free of wear.



Wear indicator

Ball hitch

Ensure ball hitch is greased and kept in good condition.



Towing restrictions

You are advised that the Groundhog Mobile Welfare Unit should not be towed at speeds greater than 50 mph. The unit is not designed for high speed towing or manoeuvring.

Towing vehicle suitability

The towing vehicle must be suitable for towing the Groundhog, which have gross weights of 1800 kg (GP360 single axle) and 3000 kg (GP500 twin axle).

Towing brackets

The towing vehicle must have a properly fitted, manufacturer approved towing bracket of the correct specification for the vehicle and be fitted in accordance with the vehicle manufacturers recommendations.

Vehicle registration plate

The welfare unit must display an approved style registration "number" plate with the same registration mark of the towing vehicle whenever used on the road.

Towing mirrors

You may require wing mirror extensions if your view is obscured by the welfare unit.

Attaching the Groundhog to the towing vehicle

The following instructions are conditional upon the Mobile Welfare Unit being ready to tow.

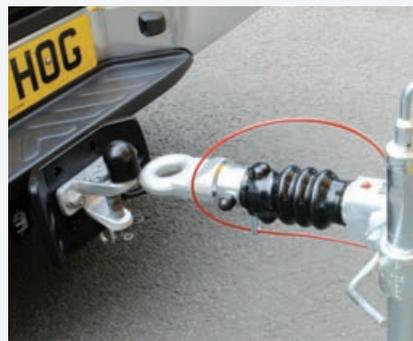
1. Position the unit on level ground and apply the parking brake.
2. **Ball** Turn the jockey wheel operating handle anti-clockwise to raise the coupling head higher than the vehicle's tow ball. **(Fig A)**
2. **Eye** Turn the jockey wheel operating handle anti-clockwise to raise the coupling head in line with the vehicle's tow jaw, remove R-Clip and then remove towing pin from vehicle's tow jaw. **(Fig B)**
3. **Ball** Manoeuvre the towing vehicle to the unit until the coupling head is directly over the tow ball. Fully apply the handbrake of the towing vehicle and switch its engine off. **(Fig C)**
3. **Eye** Manoeuvre the towing vehicle to the unit until the coupling head is directly inserted into the vehicle's tow jaw. Fully apply the handbrake of the towing vehicle and switch its engine off. **(Fig D)**
4. **Ball** Raise and hold the coupling head handle in the raised position **(Fig E)**. Now, turn the jockey wheel operating handle clockwise until the coupling head is in place on the ball. Allow the coupling to close on the ball **(Fig F)**. Carefully check that the ball is correctly in place.
4. **Eye** Carefully check that the Eye is correctly in place. Now, fully insert the towing pin through the vehicle's tow jaw and eye connection. Reattach R-Clip to pin to ensure pin cannot work itself free when towing. **(Fig G)**
5. **Ball & Eye** Attach the breakaway cable to a suitable location on the towing vehicle. **(Fig H)**
6. **Ball & Eye** Once the unit is coupled to the towing vehicle, release the welfare unit's handbrake. **(Fig I)**
7. **Ball & Eye** Fully raise the jockey wheel, then raise and lock the jockey wheel assembly clear of the ground with the wheel facing to the rear **(Fig J for Ball) (Fig K for Eye)**. Secure the clamp. Attach the lighting cable plug to the towing vehicle's socket and check that all the lights are working correctly. **(Fig L)**



Ball connection



Eye connection



Universal ball/pin connection

These images refer to towing instructions on previous page.



Figure A (Ball)



Figure B (Eye)



Figure C (Ball)



Figure D (Eye)



Figure E (Ball)



Figure F (Ball)



Figure G (Eye)



Figure H (Ball & Eye)



Figure I (Ball & Eye)



Figure J (Ball)



Figure K (Eye)



Figure L (Ball & Eye)

Positioning



The Groundhog is designed for use on firm level ground which is able to support the weight of the unit and its load. During use, the trailer **MUST** be uncoupled from the tow vehicle.

Tow the Groundhog to where it will be used and manoeuvre into position. Apply the towing vehicle's parking brake and switch off the engine. Next, apply the Groundhog's parking brake.

Uncouple the Groundhog from the towing vehicle and move the vehicle to a safe location.

Make a thorough inspection of the ground below the Groundhog and remove any foreign objects which may cause problems.

Remove rear lighting board before lowering the Groundhog.

Raising and lowering

The Groundhog is fitted with a swinging axle which allows the shell to be lowered to the ground. The design also means that the wheels are "hidden" under the body of the unit.

Once lowered, the controls and tow hitch are secure under a lockable steel cover (nosecone).



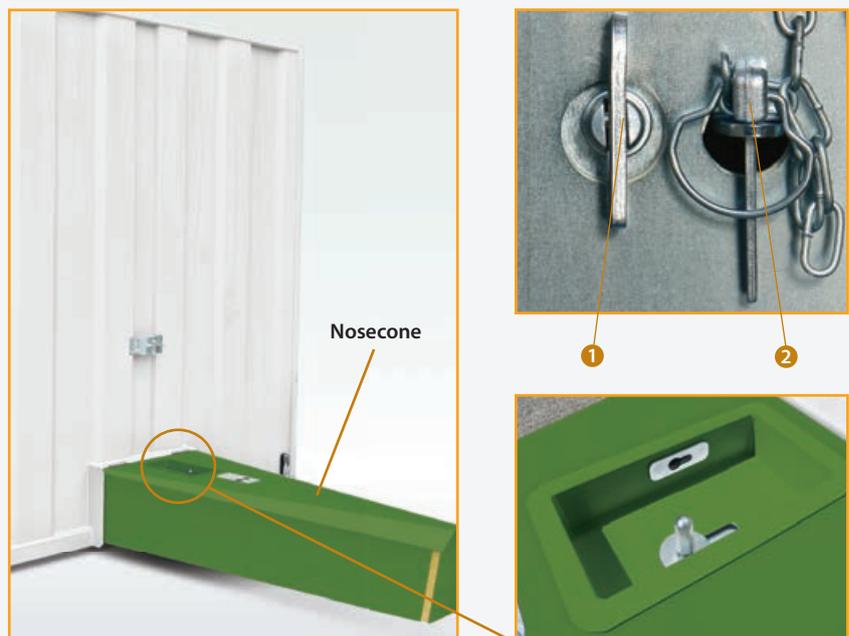
To view the video on how to deploy the Groundhog mobile unit, please visit our website at www.groundhog.co.uk

Nosecone

Take a firm hold of the nosecone security cover handle to prevent it from swinging down and causing injury. Remove the safety clip and release the anti-luce clip, then carefully lower the cover.

1. Nosecone Cover Securing Bolt (Anti-luce)
2. Nosecone Cover Safety Clip (Pin & Chain)

Once in position, use the key supplied to lock the nosecone lock. If this lock is not secured, the unit could be removed from site without requiring entry.





Single axle electric hydraulic operating instructions – press button

Arrival at site

Lower rams by pressing UP button (1) on control box (Fig A) until road wheels are clear of ground

Move spring bolt (4) into open position (Fig B)

Pull lever (5) into open position (Fig C)

Remove jockey wheel (6 & 7), by turning anti-clockwise, release locking handle, remove jockey wheel, handle and pad (Fig D)

Release handbrake to “Off” position

Fig E shows removed jockey wheel

Press DOWN button (2) on control box (Fig A) to lower unit to the ground

Lower steel shroud over drawbar and lock in closed position

Departure from site

Open shroud and secure in upright position with Securing Bolt (Anti Luce) and Safety Clip (Pin & Chain) (Fig F)

Pull handbrake to the “ON” position

Press UP button until road wheels are clear of ground

Replace jockey wheel into its clamp with the pad and locking handle, rotating jockey wheel handle clockwise to attach lower wheel shaft

Push lever (5) to lock axle pins

Release spring bolt (4)

Press DOWN button (2) to raise the rams until the unit is level, on its wheels, supported by jockey wheel

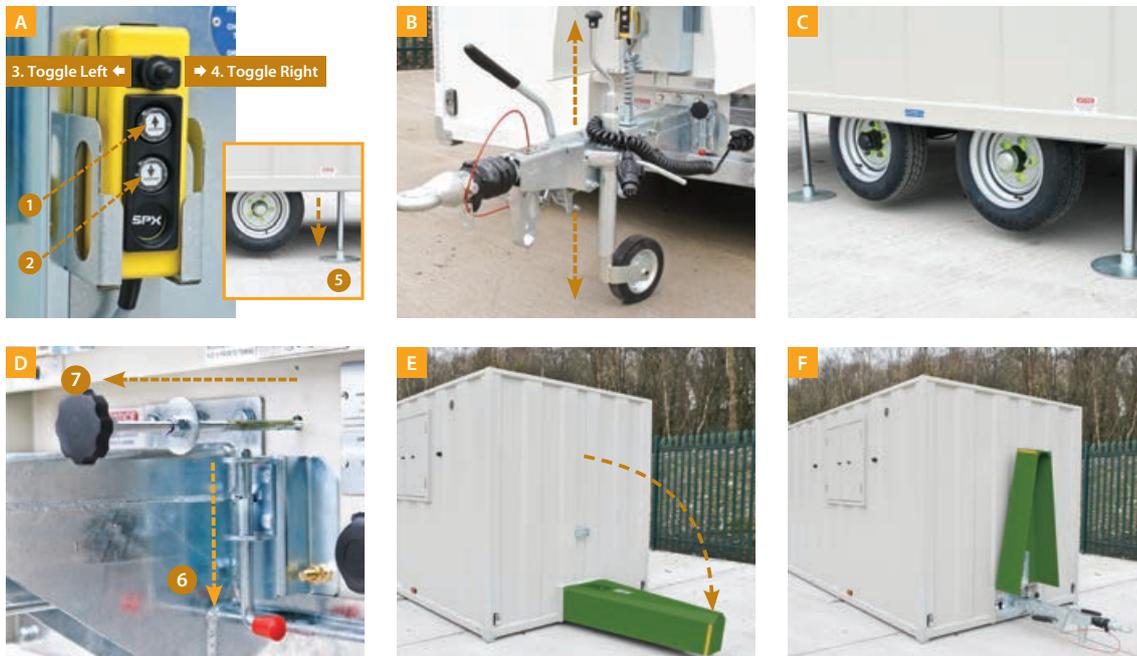
Continue to press DOWN button to fully retract hydraulic rams

CAUTION

Keep clear of the raised unit at ALL TIMES. NEVER enter the underside of the shell for any reason unless it is being held by suitable supports (correctly rated axle stands for example).

DO NOT use the hydraulic jacks as a means of support. Use them ONLY for changing the unit from road towable to static and vice versa.

Twin Axle Electric Hydraulic Operating Instructions

**NOTE**

In the event of a flat battery, please start the generator

Arrival at site

Lower front rams (5) by pressing the 'UP' button (1) and hold toggle to the RIGHT (4) until front wheels are clear of ground (Fig. A).

Remove jockey wheel by turning anti-clockwise, release locking handle, remove jockey wheel, handle and pad (Fig. B).

Lower rear rams by pressing the 'UP' button (1) and hold toggle to the LEFT (3) until all wheels are clear of ground (Fig. C).

Release handbrake to "Off" position.

Move spring bolt (6) into open position (Fig. D).

Pull knob (7) fully out to release axle pins (Fig. D).

Press the 'DOWN' button (2) and toggle LEFT/RIGHT (3/4) alternately to lower unit to the ground.

Lower steel shroud over drawbar and lock in closed position (Fig E).

Departure from site

Open shroud and secure in upright position with Securing Bolt (Anti Luce) and Safety Clip (Pin & Chain) (Fig. F).

Raise front rams by pressing the 'UP' button (1) and hold toggle to the RIGHT (4) until rams are fully extended.

Replace jockey wheel into its clamp with the pad and locking handle, rotating jockey wheel handle clockwise to attach lower wheel shaft.

Lower rear rams by pressing the 'UP' button (1) and hold toggle to the LEFT (3) until all wheels are clear of ground.

Push in knob (7) to lock axle pin (Fig. D).

Release spring bolt (6) (Fig. D).

Pull handbrake to the "ON" position.

Press the 'DOWN' button (2) and toggle LEFT/RIGHT (3/4) alternately to lower unit to the ground until unit sits level on all wheels and is supported by the jockey wheel.

Continue to press 'DOWN' button (2) and toggle LEFT/RIGHT (3/4) alternately until hydraulic rams are retracted fully.

CAUTION

Keep clear of the raised unit at ALL TIMES. NEVER enter the underside of the shell for any reason unless it is being held by suitable supports (correctly rated axle stands for example).

DO NOT use the hydraulic jacks as a means of support. Use them ONLY for changing the unit from road towable to static and vice versa.

If you suffer a puncture when towing the welfare unit, follow the next set of instructions **ONLY** if the unit is on level ground and in a position which does not place the operators life at risk.

Apply the welfare unit's parking brake and unhitch the unit from the towing vehicle.

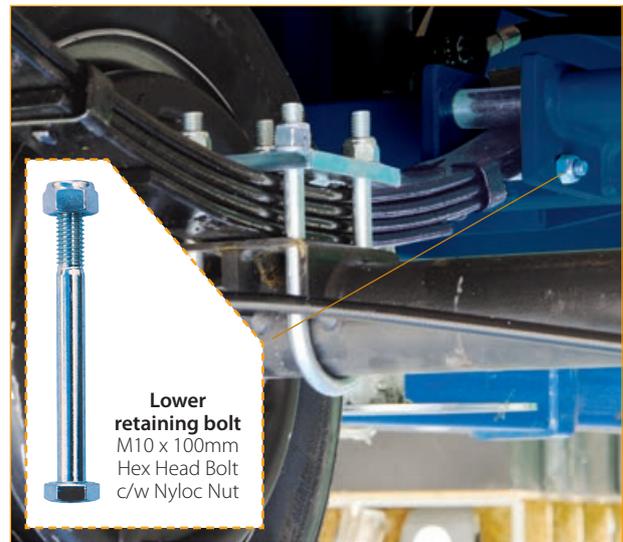
Remove both lower retaining bolts from the leaf-spring mounting plate. M10 - 17mm Spanners x 2.

Use the hydraulic system to jack the unit up until you are able to gain access to the wheel nuts.

Remove the wheel and replace with a suitable spare wheel.

Now lower the unit back onto its wheels, then replace the two lower retaining bolts.

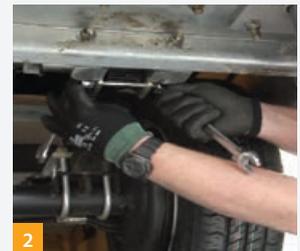
Check that the wheel nuts are correctly tightened (90 NM). M12 - 19mm socket.



Replacing a single axle wheel – Step by step guide



1 Apply the welfare unit's parking brake and unhitch the unit from the towing vehicle.



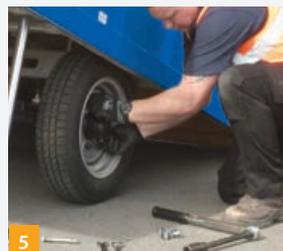
2 Remove lower retaining bolt.



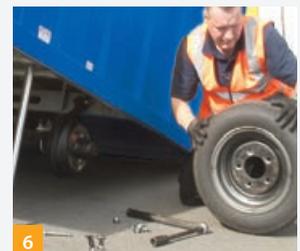
3 Loosen wheel nuts.



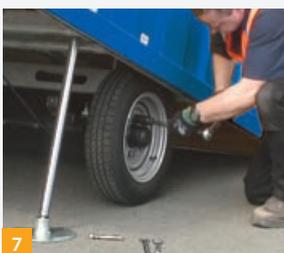
4 Lift unit using hydraulic system.



5 Remove wheel nuts.



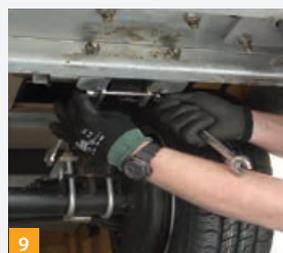
6 Remove wheel. Replace punctured tyre.



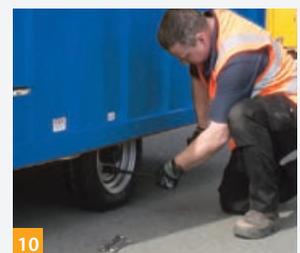
7 Tighten wheel nuts.



8 Lower unit back down to towing position.



9 Replace lower retaining bolt.



10 Tighten wheel nuts to (90 NM).

Note: Replace with new wheel nut indicators and ensure they are correctly aligned. See page 8.

If you suffer a puncture when towing the welfare unit, follow the next set of instructions ONLY if the unit is on level ground and in a position which does not place the operators life at risk.

Apply the welfare unit's parking brake and unhitch the unit from the towing vehicle.

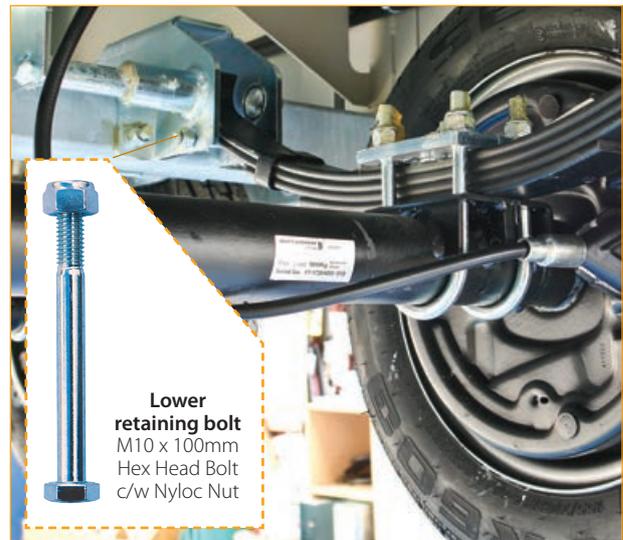
Remove both lower retaining bolts from the leaf-spring mounting plate. M10 - 17mm Spanners x 2.

Use the hydraulic system to jack the unit up until you are able to gain access to the wheel nuts.

Remove the wheel and replace with a suitable spare wheel.

Now lower the unit back onto its wheels, then replace the two lower retaining bolts.

Check that the wheel nuts are correctly tightened (90 NM). M12 - 19mm socket.



Replacing a twin axle wheel – Step by step guide



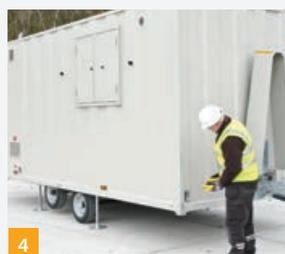
1 Apply the welfare unit's parking brake and unhitch the unit from the towing vehicle.



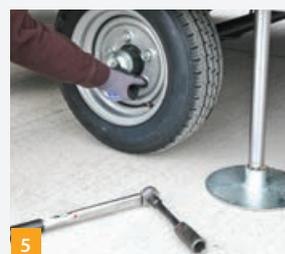
2 Remove lower retaining bolt.



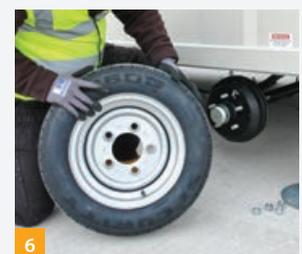
3 Loosen wheel nuts.



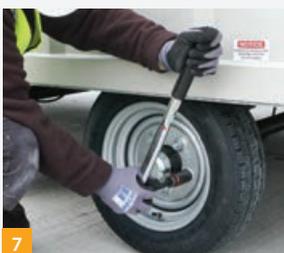
4 Lift unit using hydraulic system.



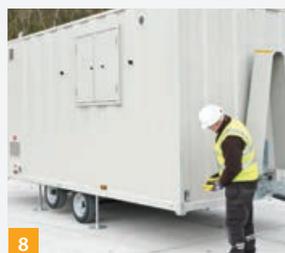
5 Remove wheel nuts.



6 Remove wheel. Replace punctured tyre.



7 Tighten wheel nuts.



8 Lower unit back down to towing position.



9 Replace lower retaining bolt.



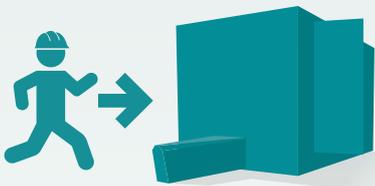
10 Tighten wheel nuts to (90 NM).

Note: Replace with new wheel nut indicators and ensure they are correctly aligned. See page 8.

Important information on how to get the most out of your **Mobile Fusion** welfare accommodation unit



HOW TO LOOK AFTER ME!



On arrival each morning



CHECK FUEL AND OIL LEVELS in generator and **FRESH WATER LEVEL** in storage butt below sink.



START GENERATOR AND RUN FOR APPROX. 15-20 MINUTES to pre-heat the water in the water boiler for both hand-wash basins.



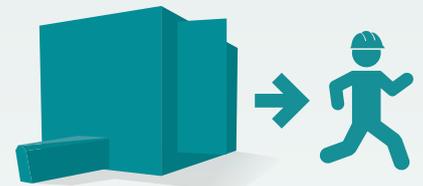
CHECK BATTERY LEVEL INDICATOR ON CONTROL PANEL, located above worktop. If the voltage drops below 11.6 volts please start generator and leave to run. *It will automatically shut off and re-set.*



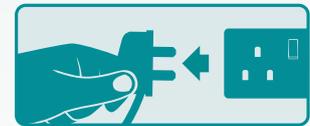
During break times



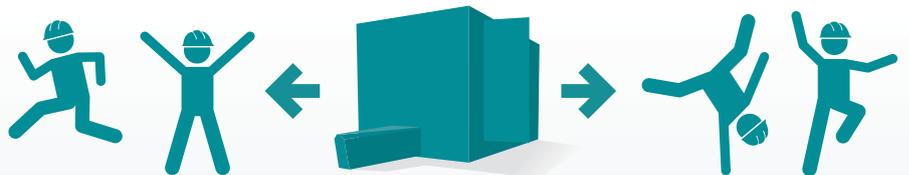
START GENERATOR. In order to use the kettle & microwave the generator must be running.



When leaving for the day



ENSURE ALL APPLIANCES THAT MAY BE PLUGGED IN ARE REMOVED.



When leaving for the weekend



START GENERATOR AND LEAVE TO RUN. There is a 3 hour timer – after this period the generator automatically shuts off.

NOTE: Running the generator on a Friday afternoon helps to ensure the batteries hold their charge ready for use on Monday.



- 1. Control panel
- 2. Inverter information
- 3. Consumer unit
- 4. Switched fuse spurs for microwave and kettle
- 5. Microwave
- 6. Kettle
- 7. Cup dispenser
- 8. Drinking water

Microwave oven

- 1. Door
- 2. Rotating base
- 3. Heat setting
- 4. Timer
- 5. Door release button



The model of microwave oven will vary and you are advised to use the manufacturers instructions supplied with the Welfare Unit.

However, here is a brief description of the three basic controls.

Heat setting Turn the dial to select the level of cooking.

Timer dial Turn the dial clockwise to the time required, a bell will ring when the cooking time is complete.

Door release

To open the door and stop the microwave, press the door release button.

Cup dispenser

- 1. Lid
- 2. Cup dispenser



This is a simple holder for disposable cups which is filled from the top and dispensed from the bottom.



Inverter powered socket c/w USB connections

Provides power suitable for charging mobile phones and laptops only. Located in seating area.

Soap dispenser



To insert or remove a soap cartridge, first push the release button located under the unit (A), the catch will release the cover, lower carefully. Simply remove soap cartridge and replace (B).

To obtain soap, press the dosing button with the palm of your hand.

Paper towel dispenser



The towel dispenser is designed for use with paper towels. To open, push key in to the top of the front panel (A) and swing down.

Fill the unit with the towels (B) and close the panel ensuring the release button re-engages.

Drinking water



1. Carry handle
2. Securing strap
3. Shelf
4. Tap

Drinking water should only be taken from the wall mounted 'drinking water' container. This container can be filled from a suitable mains water supply provided the water is fit for human consumption. Alternatively, refill the container with bottled water.

Always secure to its wall mount shelf with the securing strap provided.

DO NOT use the container for any other purpose. If you do, it must be disposed of and a replacement obtained.

Smoke alarm, carbon monoxide detector and remote temperature sensor



Smoke alarm



Carbon monoxide detector



Remote temperature sensor

Battery powered carbon monoxide detector and smoke alarm.

Remote temperature sensor, monitors the ambient air temperature of the unit.



- 1. Foot pedal
- 2. Soap Dispenser
- 3. Paper Towel Dispenser
- 4. Water outlet
- 5. Sink
- 6. Waste water
- 7. Fresh water



- 1. Foot pedal
- 2. Soap dispenser
- 3. Towel dispenser
- 4. Warm water outlet
- 5. Pump handle
- 6. Toilet

Warm water outlet

The water outlet delivers warm water instantaneously and is delivered via a 12V pump located beneath the worktop. The water used is stored in a 20 litre container beneath the sink. Only fill the container with fresh clean water.

To operate warm water, apply pressure to foot pedal. This will provide hot water until pressure is released.

Sink & waste water

Waste water from the sink is collected in a container positioned next to the fresh water container. Regularly check the container for content and empty as necessary.

Toilet wash area

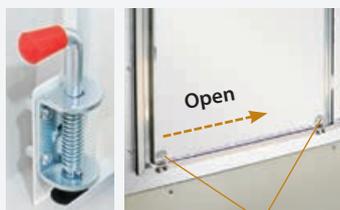
The toilet wash area consists of a wrist to elbow sink, a warm water outlet, soap dispenser and towel dispenser.

To operate warm water, apply pressure to foot pedal. This will provide hot water until pressure is released.

Please ensure the water level is monitored daily.



Secure shutters to unit



Locking spring

Catches

Window

The window is protected by steel shutters, which are locked internally and can only be opened from inside the rest room.

To access the shutters, first open the window.

To open the window, release the catch and slide the left hand glass panel open, release lock bolt to open the steel shutters.

When leaving the welfare unit unattended or when transporting, the steel shutters should be closed and locked.

Toilet

The toilet is a self contained unit which uses toilet fluids for flushing. Filling and emptying the toilet reservoir should be undertaken by a suitable toilet service provider.

To operate the toilet flush after use, move the pump lever back and forth until the toilet bowl is clear.

Inverter powered socket – important information

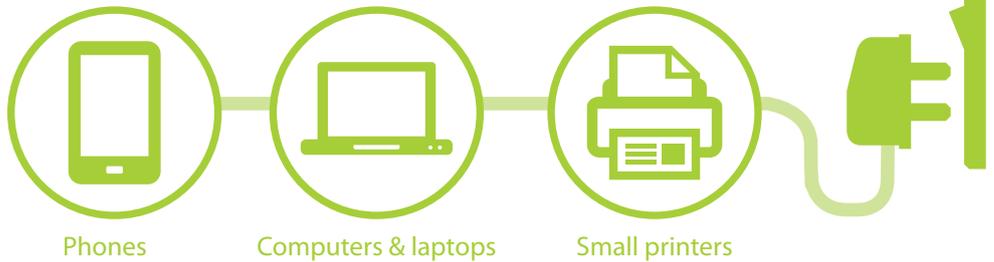
The inverter powered socket is suitable for powering **laptops, phone chargers** and **small printers**.

Do not use this socket to plug in any other electrical devices.

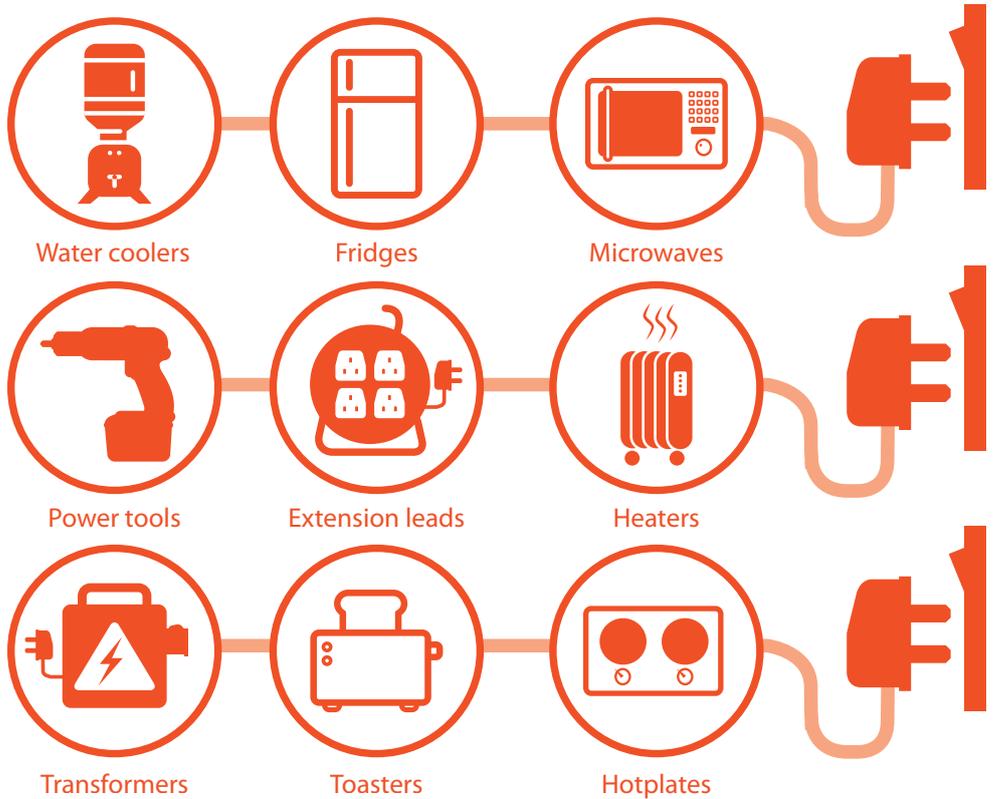


Inverter powered socket c/w USB is located in seating area

Do:



Don't:



Groundhog UK Ltd is not responsible for any damage to the Groundhog unit caused by improper usage. The above is intended as a guide only and the 'don't' section is not restricted to items shown. If you are unsure, please do not use – please contact your hirer for assistance.

Diesel powered heating system



- 1. Heating run timer
- 2. Heater control
- 3. Battery voltage indicator

To operate the heating system simply rotate the heater controller on the control panel above the work top in the messroom clockwise until the green triangle illuminates. Using the rotary controller you can adjust the fan speed of the heater to give you variable temperatures for different climates. After use return the

rotary controller to the off position, failing this the heater has a built in 8 hour timer relay which will shut the heating down after 8 hours of operation.

To restart the heating simply turn the rotary controller anti clockwise to the off position, then rotate clockwise to your preferred heat setting.

Heating outlets/inlets

CAUTION Do not obstruct outlets/inlets as this could cause the diesel powered heating system to overheat.



Cold air inlet



Hot air outlets

Generator running instructions – important information



Generator NOT needed

for the operation of LED lights & heating system



LED lights



Heating system



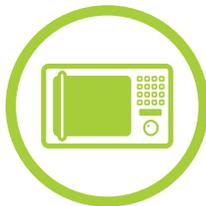
Inverter powered socket c/w USB

The generator charges the 12V battery, allowing the LED lighting and diesel powered heating system and inverter powered electrical sockets to be operational without the need for the generator to be running.



Generator needed

for the operation of microwave, kettle and hot water system



Microwave



Kettle



Hot water system*



Battery charger

To power the microwave, kettle and hot water system, the generator needs to be running.

The hot water boiler will take roughly **15 minutes** to reach temperature and will remain warm for approximately **2-3 hours**.



15 mins to heat up



Retains heat for approx. **2/3 hours**

* The generator is needed to heat the water. When it reaches its temperature then the generator does not need to run.



Groundhog recommends that the generator is left to run for its **full cycle** (approximately 3 hours) **at least twice a week**, depending on use. This will ensure the on-board batteries are kept charged and in good condition.

NOTE

When leaving the generator run, it will automatically shut off and reset.

NOTE: If the unit is used with additional 12V appliance, the generator may need to be run for longer periods.

On-board diesel generator

The on-board diesel generator is used to power the hot water, power points and charge battery.

The generator is located in the warm room and is self contained. The controls for starting and stopping are within the canteen/rest room.

Before starting the generator, always check the engine oil and fuel levels and top up as necessary.

With the unit level, remove the oil dipstick and check that the level is in line with the maximum marker. Top up, via oil filler neck, as necessary with suitable engine oil (AGIP MULTIGRADE 5W-40 or similar quality).

To start the engine



The engine is fitted with an electric start and automatic choke/throttle.

Press the ON/OFF button then press and hold the start button until the engine is running.

Once running, allow the engine to warm up for at least 2 minutes before using power. To stop the engine, simply press the ON/OFF button.

Note: Timer switch is set to 3 hours min.

How to refill the fuel tank



1. Fuel cap

2. Fuel gauge

Option 1

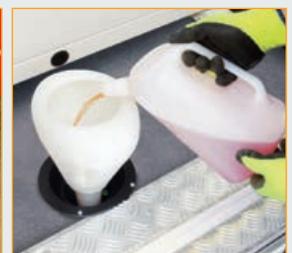


Funnel with protective mesh



1. Using the funnel, pour fuel directly from jerry can.
2. Clean surrounding area of any excess fuel.

Option 2



1. Pour fuel from jerry can into smaller container.
2. Using the funnel, pour fuel from container.
3. Clean surrounding area of any excess fuel.

CAUTION

No smoking. No naked flames.
DO NOT overfill fuel tank.

Protecting your water system over the winter period

Allowing water to freeze in the system of your groundhog unit may result in damage to the water pump and water heater.

To help prevent this from happening it is advised you follow the following procedures when unit is not being used over night, or left for long periods without use.

To bring water heater system out of winterised mode, see page 20.

Note: There will be a short delay whilst the water pump replenishes itself.



Remove blue fresh water pipe from the water container below the sink.



Canteen area

Apply pressure to foot pedal, situated below sink in canteen area and leave to run until all the water has been pumped out of the system. This should take approximately 20-30 seconds.



Toilet area

Apply pressure to foot pedal, situated below sink in the toilet area and leave to run until all the water has been pumped out of the system.



Drain both fresh and waste water containers.



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