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Welcome

Dear Customer,

Thank you for purchasing a Moto-Trek Motorhome and welcome as a valued customer.

In this handbook you will find many hints and important information on the operation and safe use of your vehicle. While we have endeavoured to cover all major points, you will also need to refer to the individual handbooks for each appliance for more in-depth information. This handbook is for this Motor Home, please check each section to ensure it applies to your vehicles specific layout before trying to operate any of the systems or appliances.

Throughout the season changes may be made to vehicle specification and this handbook. Please contact us for any further information you may require.

Thank you.

Model.....

Vehicle VIN No.....

Vehicle Registration No.....

Base Vehicle.....

Engine.....

Date of Handover.....

Warranty Start date.....

Warranty

Warranty / troubleshooting

For any warranty or troubleshooting issues please call the below number.

Moto-Trek: 011438 79760

Loading your motorhome

Dimensions

Your motorhome is:

4.97m in length

2.272m wide with the mirrors extended

2.10m Height

Weights (kg)

Maximum technically permissible laden mass and registration mass – 3200Kg

Mass of vehicle in running order – 2560Kg

This is the mass of the leisure batteries, full gas tank, freshwater tank & hook up cable.

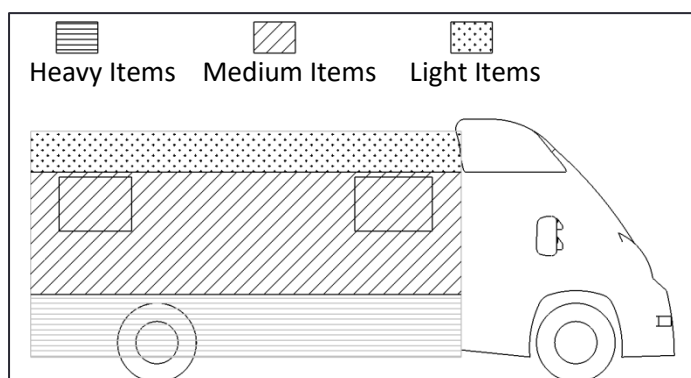
This leaves a Mass of user payload – 415kg payload

This is split between:

Mass of the conventional load (passengers) – up to 225Kg (75kg per person)

Load spread

When loading your vehicle consider balance and positioning. Try to load items as close to the floors as possible, with heavy items at the bottom and lighter items towards the top, as shown in fig1.



Please take care that you have allowed for the masses of **ALL** items you intend to carry in the motor caravan e.g. Passengers, optional equipment, essential habitation equipment and personal effects such as clothing, food, pets, bicycles, sailboards, sports equipment etc.

Warning! Under No circumstance should the registration mass of this motor caravan be exceeded.

The mass in running order contains a provision for the masses of liquids, gas, etc. Part of this provision can also be utilised as additional payload if for example you wish to travel with water tanks empty or no gas.

The masses quoted are subject to tolerance. YOU are responsible for ensuring the vehicle is never used above its registration mass.

Before & after your Journey

Prior to setting off on your journey there are some motorhome specific requirements that you should check, in addition to standard vehicle checks.

- Ensure all gas appliances are turned off
- Ensure the fridge door catch is engaged
- Ensure the dial in the fridge is set to zero or click the rocker switch off to prevent it drawing power from battery
- Shut and secure all external locker doors
- Close all internal cupboards and engage catches
- Shut all windows and roof lights taking care to close top hinged window catches
- Disconnect 230v lead and shut hatch
- Retract external step and fully close awning if fitted
- Check all drain points are closed
- Fully open all curtains
- Fix both driver and passenger seating in the forward position
- Ensure the pop top is securely fastened down
- Ensure the bed seat is fastened into the track using the pins located at base of seat bed.
- Turn the Inverter off.

NOTE: "To ensure the leisure battery is fully charged before use, connect the vehicle to the mains electricity via the 240-volt lead provided. Caravan mains hook up 3 pin adapters are widely available from various outlets, including Amazon."

Passenger seating

Passengers should only be carried in designated passenger seats fitted with approved 3-point seat belts. Children should be seated on bolster cushion on in correctly fitted child seats when the vehicle is in motion.

Safety features

Prior to using your motorhome, please ensure you fully understand the safety features within your motorhome and are aware of their operation.

Carbon Monoxide (CO) detector

Warning! A loud alarm is a warning that unusually high and potentially lethal levels of carbon monoxide are present. Never ignore this alarm, further exposure can be fatal. Immediately check residents for symptoms of carbon monoxide poisoning and contact the proper authorities to resolve all CO problems. NEVER IGNORE ANY ALARM!

What to do during an Alarm:

- Keep calm and open the doors and windows to ventilate your motorhome
- Stop using all fuel burning appliances and ensure, if possible, that they are turned off
- Evacuate the motorhome leaving the doors and windows open
- Do not re-enter the property until the alarm has stopped. When exposed to fresh air it can take up to 10 minutes for the sensor to clear and the alarm to stop depending on the level of carbon monoxide detected
- Get medical help immediately for anyone suffering the effects of carbon monoxide poisoning (headache, nausea), and advise that carbon monoxide poisoning is suspected
- Do not use any appliances until they have been checked by a trained expert

Types of alarm

Your CO detector will operate in the following manner should it detect abnormally high carbon monoxide concentrations in the atmosphere:

- Between 60 and 90 minutes when exposed to 50ppm of CO
- Between 10 and 40 minutes when exposed to 100ppm of CO
- 3 minutes when exposed to 300ppm or more of CO

The detector will flash a green LED when it is operating correctly. To ensure the continued operation of your CO detector it is equipped with a test/reset button. This button will:

- Test the sounder, power pack and circuitry
- Allows you to test the sensor by introducing a source of CO into the detector
- Silence the loud 85dB (at 1 metre (3 feet)) sounder during an alarm (only for alarms due to levels of CO of less than 50ppm)

Testing the sounder, power pack and circuitry

Test the sounder, power pack and circuitry by pressing and releasing the test/reset button to confirm that the detector is operating properly. The sounder should sound as soon as the button is pressed, and the alarm LED will illuminate red indicating that the sounder is working, and the power pack is providing power to the unit. This test for the sounder power pack and circuitry should be performed on a weekly basis.

CAUTION: Sensor testing should only be performed by a responsible adult. This test should only be performed annually. Excessive testing will cause the life of the power pack to be shortened. Refer to the detector manufacturer’s manual for more information.

Important: The selected power pack was chosen to provide power beyond the lifetime of the product, in particular the sensor (under normal operating conditions). The sensor life is seven years. For this reason, the detector should be replaced after seven years from the date of installation.

Care of the CO detector

To protect the integrity of the CO detector, ensure that it is kept free from dust and clean through its lifetime. Do not use solvents to clean off paint over the unit. Avoid using aerosols in the vicinity of the detector.

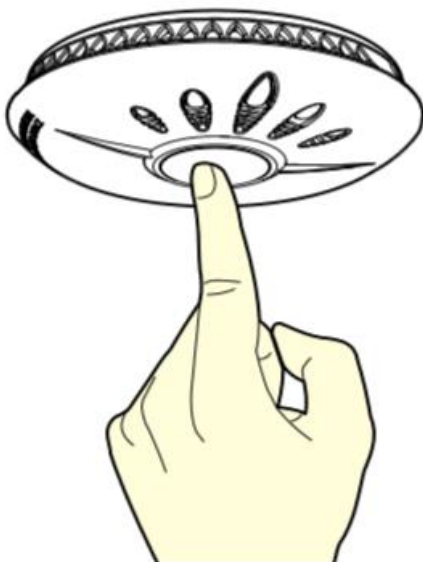
Smoke alarm

Warning! If your Fire Angel smoke alarm emits the full alarm signal and you are not testing the unit, the smoke alarm is warning you of a potentially dangerous situation that requires your immediate attention. Only use the alarm silence function after making sure that there is no ongoing fire emergency. Do not block the vents on the alarm or disable the smoke alarm in any way, as this will remove your protection.

Testing the alarm

The red LED on the front should flash every 40 seconds to show the alarm is active. You should also perform the following alarm test on a weekly basis to ensure the correct continued operation of the device.

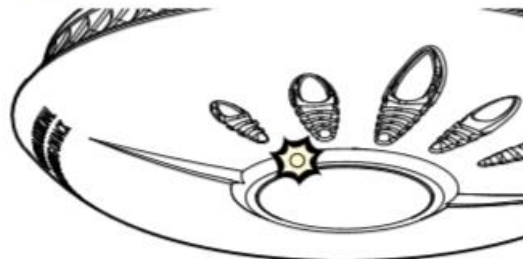
ALARM TEST



A) Press the test button in the centre and release.



B) The unit will emit a loud (85dB at 3 meters) alarm for around 5 seconds and stop automatically.



C) The red LED on your alarm will flash rapidly during the audible signal.

As the alarm power pack reaches the end of its life, a low power warning chirp will be remitted every 40 seconds. When this occurs, you must replace the unit within 7 days.

Important: This Fire Angel smoke alarm has a limited life of 10 years and should not be considered as a substitute for life or property insurance. Like all electronic equipment, it can wear out or fail. It should be tested weekly and replaced immediately in the event of failure and replaced every 10 years regardless.

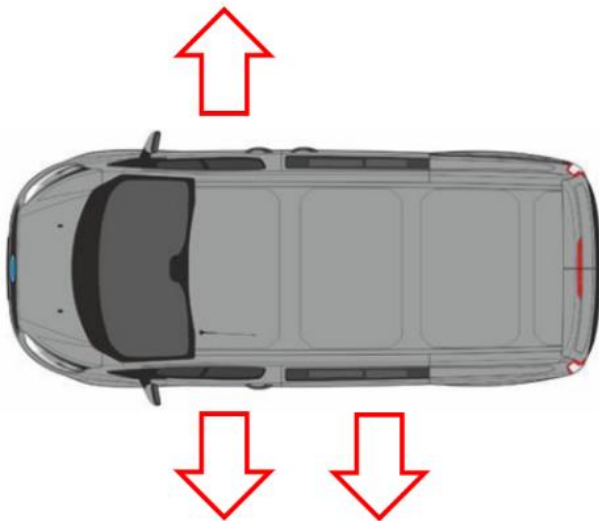
The smoke alarm is not serviceable, and you should never attempt to gain access to the device. When the power pack is drained it should be replaced at the earliest possible opportunity with a new smoke alarm suitable for motorhome use.

Care of the smoke alarm

Care should be taken to ensure that the smoke alarm is not exposed to dust and dirt. It can be cleaned using a slightly damp cloth only, do not use solvents which may enter the unit and damage the detectors. Dust can build up in the openings to the detectors, so it is important to remove this by vacuuming the unit using a soft brush attachment a minimum of once every 3 months. For more information consult the smoke alarm manufacturer's guidelines.

Escape paths

Your motorhome has been designed in line with industry standards relating to escape paths from all parts of your motorhome. The vehicle can be exited from all van doors. Ensure that these remain free from obstruction during your motorhomes use, both inside and outside of the motorhome. Never store items that will obstruct your path from the motorhome within the walkway from the front to the rear. Fire Extinguisher can be found at base of driver's seat.



In event of Fire exit vehicle through side door or driver / passenger doors.



Ventilation

Your motorhome has been designed in compliance with relevant standards relating to ventilation in the motorhome. This includes access paths for fresh air at high and low level. Ensure that all openings are always kept completely clear. High level ventilation is only accessible when in habitation mode, tent pockets must be unzipped.

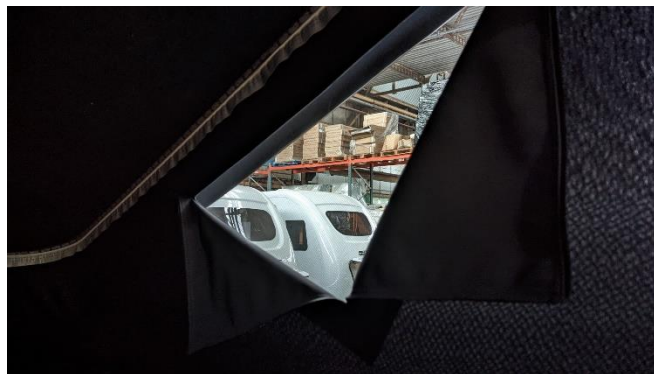
Outside
Open



Closed



Inside
Open

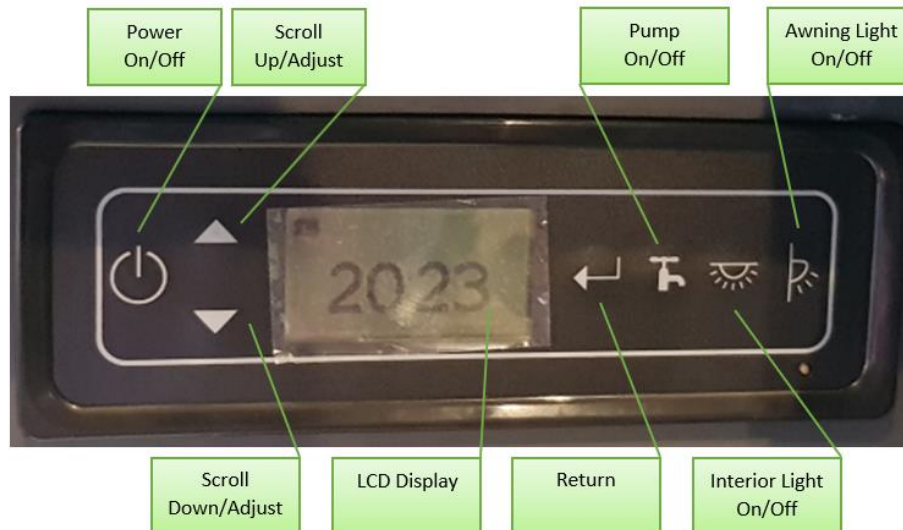


Closed



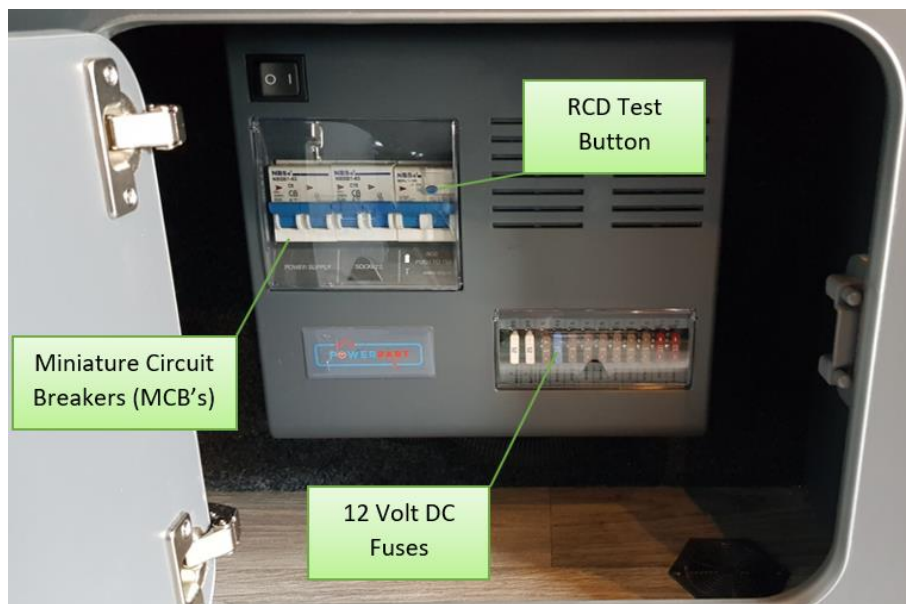
Control panel

Your motorhome is fitted with a central control panel. This allows the vehicle circuits to be switched on and off and gives you information about your motorhome.



For information regarding the usage of the control panel functions see the relevant section within this handbook or consult the BCA Seattle control panel handbook for further information.

It is linked to the BCA Powerpart PDU which controls your motorhomes 12v and 230v circuits.



Warning! Under heavy loads the Powerpart PDU case may become hot. ALWAYS ensure the ventilation slots have a clear flow of air. Do not place combustible materials against/adjacent to the Powerpart PDU. The PDU will shut down if overheated and will restart automatically when cool.

Your wiring diagrams

Warning! These diagrams are for reference only. Modification of any electrical system and/or appliance should only be carried out by competent persons.

Your circuits are protected by circuit breakers. The 230v circuit is rated to a maximum usage of 10Amps or 2.3Kw. The 12v circuit is rated to a maximum usage of 20Amps or 240w. Do not exceed the maximum usage as this will trip the breaker and may cause damage to the circuit. For example, a hairdryer will typically use 1500 – 2000 watts, where as a phone charger will use 2-5w.

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Features about the PDU (Power Distribution Unit)

- 1 x RCD, 2 x MCB- 4 outputs
(not including the power supply) one input connector.
- 150w power supply @13.8V
- 12 replaceable fuses, one poly fuse.
- Power supply isolation switch.
- Circuits:

1) Vehicle Battery	8) Heaters (Master Controlled)
2) Leisure Battery	9) Toilet (Master Controlled)
3) Fridge (permanent circuit)	10) Pump (Master and pump controlled)
4) Fridge (ignition controlled)	11) Spare Perm
5) Lights (Master & Lights controlled)	12) Ignition In/ignition out
6) Aux (Master controlled)	13) Control panel (permanent circuit)
7) Hob (Master controlled)	14) Control panel (Ignition controlled)

230V Connections
12V Connections

WARNING
All electrical work must be carried out by a competent person.

MADE IN BRITAIN

ISO 9001:2015 Quality Management
ISO 14001:2015 Environmental Management

230V System

The compact PDU is fitted with two double pole Miniature Circuit Breaker (MCB's) and one Residual Current Device (RCD).

Miniature Circuit Breakers Test Button RCD

MCB's

MCB's are overload and short circuit protection devices for the 230V system.

To switch the MCB's on they need to be in the up position and the indicator will be red, when in the off position they need to be in the down position and the indicator will show green.

MCB	RATING	CIRCUIT	CONNECTOR
1	6 AMP	Internal Power Supply	N/A
2	16 AMP	Sockets & Appliances	VLR-06R x 2

RCD

The RCD is fitted to provide protection against electric shock and measures for imbalance in current flow and will activate if there is leakage to earth either through a person or an appliance, the Compact PDU is supplied with the below label, although we recommend operating the test button every time the vehicle is hooked up to a mains supply.

THIS LABEL TO BE FITTED ADJACENT TO MAIN SWITCH

This installation, or part of it, is protected by a device which automatically switches off the supply if an earth fault develops. Test six-monthly by pressing the button marked 'T' or 'Test'. The device should switch off the supply and should then be switched on to restore the supply. If the device does not switch off the supply when the button is pressed, seek expert advice.

IMPORTANT

This installation should be periodically inspected and tested and a report on its condition obtained, as prescribed in the IET wiring regulations BS7671 Requirements for Electrical Installations.

Date of last inspection _____
Recommended date of next inspection _____
Date of next inspection _____

PI No 750126A



Pin	Fuse	Max Fuse Rating	Circuit	Additional Information
1	N/A	N/A	Ground	Return to 3 stage fridge
2	F6	25A	Fridge	Feed for 3 stage fridge, ignition controlled



Pin	Fuse	Max Fuse Rating	Circuit	Additional Information
1	F3	5A	Control Panel	This is a permanent circuit.
2	F7	5A	Control Panel	This circuit is control by the ignition and has no power when the engine is running
3	N/A	N/A	Ground	To be used as the return for the control panel
4	N/A	N/A	Master Return	Master Switch return from the control panel
5	N/A	N/A	Lights Return	Master lights switch return from the control panel
6	N/A	N/A	Pump Return	Master pump switch return from the control panel

12 + 230V Harness

The compact PDU is supplied with a "plug and Play" 230V harness and 12V harness which has been designed for easy installation.

230V Harness

The 230V harness comprises of:

- One 3Mtr Mains lead to be connected to the PDU and mains inlet
- Four 2Mtr cables with connectors on both ends for connection to the PDU and compatible c-line sockets and extensions.
- An earth cable to be connected from the PDU to the chassis and gas pipes.

12V Harness

The 12V Harness comprises of a fully built harness fitted with connections to the PDU and to other circuits and appliances

- Water Probe (optional)
- 2 x lights circuit with 6.3 female and hard boot connections.
- 2 x Aux circuits with 6.3 female and hard boot connections.
- Pump with 6.3 female and hard boot connections.
- Toilet with 6.3 female and hard boot connections.
- Hob/Oven with 6.3 female and hard boot connections.
- Heater with 6.3 female and hard boot connections.
- Compression Fridge with 6.3 female and hard boot connections.
- Vehicle Battery and Ignition with 3-way connector.
- Leisure battery with a 2-way connector.
- Control panel with compatible connection for various control panels.
- 12V Ignition feed with 6.3 female and hard boot connections.
- Permanent feed with 6.3 female and hard boot connections.

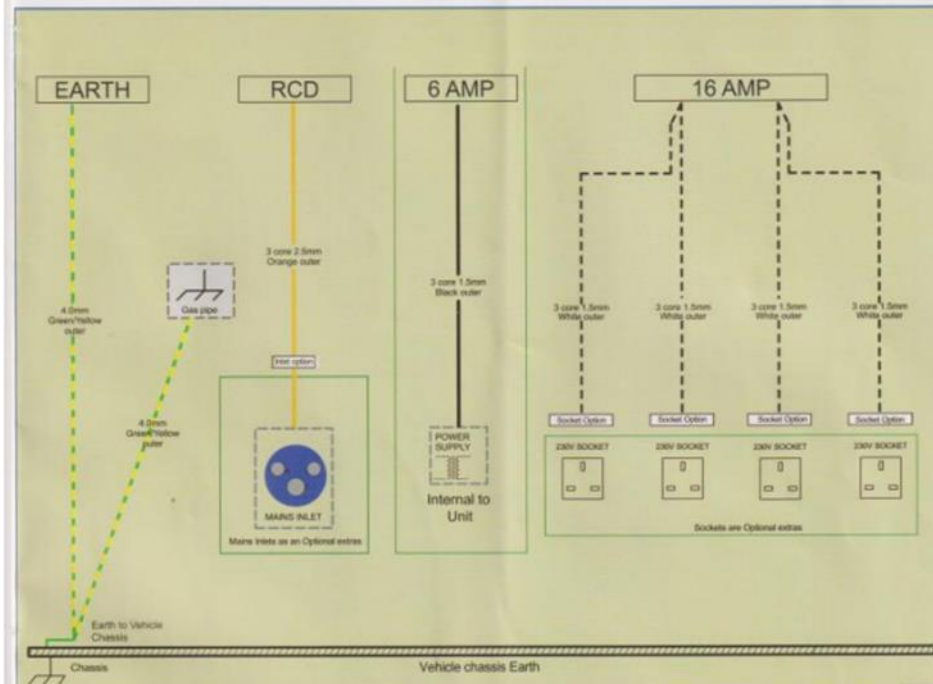


Pin	Fuse	Max Fuse Rating	Circuit	Additional Information
1	F1	25A	Vehicle Battery	Feed from the Vehicle battery, linked with Pin 5
2	N/A	N/A	Ground	To be used as the return for the Vehicle battery
3	F2	25A	Leisure Battery	Feed from the leisure battery, linked with pin 7p
4	N/A	N/A	Ground	To be used as the return for the Leisure battery
5	F1	25A	Vehicle Battery	Feed from the Vehicle battery, linked with pin 1
6	N/A	N/A	Ground	To be used as the return for the Vehicle battery
7	F2	25A	Leisure Battery	Feed from the leisure battery, linked with pin 3
8	N/A	N/A	Ground	To be used as the return for the Leisure battery



Pin	Fuse	Max Fuse Rating	Circuit	Additional Information
1	N/A	N/A	Ground	Return paths for circuits
2	N/A	N/A	Ground	Return paths for circuits
3	N/A	N/A	Ground	Return paths for circuits
4	N/A	N/A	Ground	Return paths for circuits
5	N/A	N/A	Ground	Return paths for circuits
6	N/A	N/A	Ground	Return paths for circuits

230V system



Installation of the PDU

Ventilation

The PDU requires a minimum surrounding clearance of 75mm around the ventilation slots.

The PDU **MUST** be installed as such that external heat sources will not have a detrimental effect on the normal operation of the unit.

Fixing of the PDU

All four fixing points **MUST** be used to secure the PDU to prevent damage to the unit from vibration.

The fixing lugs are mirrored on the opposite side of the PDU. Care must be taken to give adequate space for the bend radius of the cable that is being installed.

Access to connectors

The PDU should be installed in such a way that access to the connectors are only accessible by the use of a tool either by location or an enclosure securely fastened.

Connection to the mains supply

Connection of the PDU to the mains supply* should be made with the supplied cable connected to an inlet** enclosed in a suitable enclosure.

Dimensions of the PDU



Fixing Points of the PDU



Mains electrical connection

For your safety it is **IMPORTANT** that you follow these connection instructions each time your motorhome is connected to a mains supply.

Connect the Hook-up Lead. Firstly, connect to the motorhome and then connect to the mains supply, note sites supply may look different to the below right image.



Vehicle supply



Connect to vehicle first



Connect to site supply second



Site Supply

Warning! Inside outlet sockets shall only be used with dedicated appliances.

Warning! No appliance shall be used outside when being connected to the internal socket.

The vehicle comes with a mains lead for use on site (below left), this is situated under the rear seat. This can be plugged into the driver side connection point situated to rear of vehicle (below right) then plugged into the connection point on site. **IF IN DOUBT SEE SITE MANAGER!**



12v circuit & batteries

Turn the control panel on by pressing the power on switch.

Warning! When the voltage provided by the leisure battery reduces some electrical components may not function correctly.

Should the leisure battery voltage drop to a low level, it is possible to power the habitation circuits using the vehicle battery using the battery select button. We recommend this is only done in emergencies and for short periods to avoid damaging the vehicle battery and stopping your motorhome from starting.

The 12v circuits are protected by fuses within the PDU. Should a 12v circuit not be operating correctly switch the unit off and identify the correct fuse. If the fuse is found to have blown it can be replaced and the unit turned back on.

Warning: When replacing fuses always replace a fuse with the correct value. NEVER replace with a higher value / rating as this could damage the wiring harness. If a replacement fuse 'blows' do not keep replacing the fuse as you could damage the wiring harness. Please investigate the fault and contact your dealer.

Your motorhome has been fitted with deep cycle leisure batteries suitable for use in this application. They are fitted with ventilation kits to carry any gases given off by the battery to the outside of the motorhome. However, there is still a danger that gases may be present by the batteries. Ensure that no possible spark or source of ignition is near the batteries and do not smoke when the compartment housing them is open.

The auxiliary battery is recharged whilst either, driving via the alternator, or when using a 230v hook up. It is possible to charge the leisure batteries prior to use using a main powered 12v battery charger. To do so it is important that you disconnect the batteries from the vehicle to avoid damaging the circuits and circuit protection. To do this all appliances and lamps must be switched off before disconnecting and reconnecting the auxiliary battery. Do this by switching the control panel power off and ensuring the PDU is turned off. Make sure the vehicle ignition is also switched off.

Warning! Any replacement of an auxiliary battery shall be of the same type and specification as that originally fitted or specified by the manufacturer.

Instructions for full operation and maintenance of appliances can be found in the appliance's user manual.

Water connection

Your motorhome has an on-board water tank which is used to supply the tap within the vehicle. When filling the tank ensure that the source is suitable for drinking and the pipe or similar equipment you use to fill it are suitable.

Your motorhome has an on-board water pump fitted. This can be turned on using the pump switch on the control panel, see above.

Warning! Do not run the pump when the water tank is empty as these risks damaging the pump.

It may be necessary to prime the water circuit when it has been left dry for some time. To do this turn the pump on and open the taps with the mixer tap in the central position to run both the cold and hot pipes. This will purge any air in the water circuit. When all taps have water flowing shut all the taps.

The water circuit includes a pressure switch which will automatically turn the water pump off when the system is at pressure. Opening a tap will cause the pressure to reduce and the pump will turn on again. Note that the pump also supplies the water heater which will take some time to fill.

Waste & Fresh water

Your motorhome is fitted with a gravity fed wastewater tank which is fixed underneath the chassis of your vehicle. The drains from the kitchen sink leads to this tank.

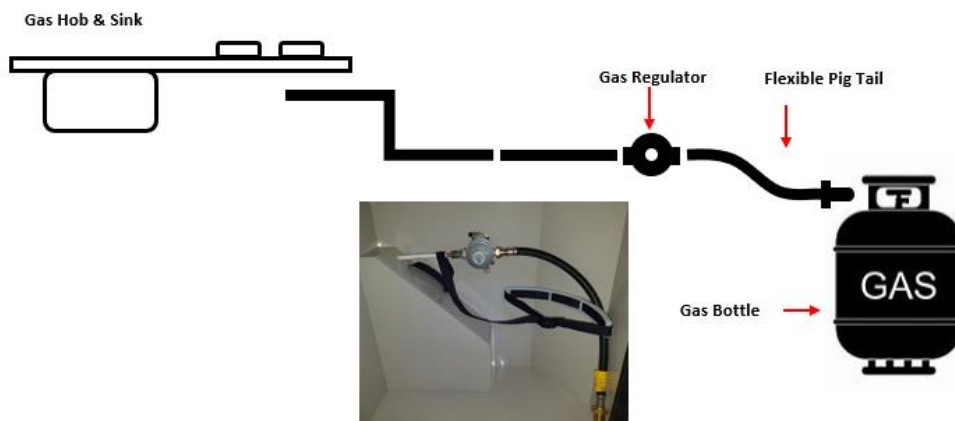
Wastewater must be disposed of either into separate suitable containers or directly into a suitable wastewater disposal point. To do so open the drain tap, this is located on the driver's right side of your motorhome underneath the vehicle sill and is identified as a grey tap. To prevent the build-up of unpleasant smells it is recommended that you ensure the wastewater tank is drained regularly and stored empty.

Important: The mass in running order of your motorhome is considered with the wastewater tank empty. Travelling with the tank partially filled will reduce the available payload within your vehicle and could lead to you inadvertently overloading the vehicle.

Both the fresh and wastewater can be emptied by using the below drain valves (below left) situated on the driver side of the vehicle. The freshwater fill point is situated in the driver's side footwell (below right).



Gas connection & use



Warning! The gas system shall only be modified by a competent person or qualified Gas Safe engineer.

Note: Appliance types may vary dependent on spec, **IF IN DOUBT CALL 01142 884411**

It is recommended that you inspect the flexible gas hose(s) regularly for deterioration and renew, as necessary, with the approved type, in any case not later than the expiration date marked on the hose(s). Also, avoid stress at the hose assembly when it is connected to the cylinder.

Your motorhome has been constructed to include either a fixed LPG gas cylinder or a single gas bottle in accordance with UNECE road vehicle regulation similar to those used for LPG propelled vehicles. This is a safe and convenient method of storing gas used within the appliances in your motorhome allowing you to fill up as required.

Read user and maintenance instructions provided by the appliance manufacturer. If any soot or similar discolouration appears or a smell is produced by the appliance consult a competent person or qualified Gas Safe engineer to have any necessary adjustments made. If an appliance is removed by them ensure that the supply line is appropriately capped and get advice before using any other appliance.

Warning! The entire gas installation should be inspected by a competent person or gas safe engineer at least annually. It is necessary to replace hoses after 5 years use.

Warning! Do not alter or change the regulator as this may cause the appliances to operate incorrectly and could lead to extremely dangerous malfunction or leaks.



In case of gas leak gas bottle can be accessed and shut off at the rear of vehicle

Changing the Gas bottle

Make sure that all flames, fires, or sources of ignition (including cigarettes, pipes and pilot lights) are out before changing gas cylinders

If your motorhome is fitted with a gas bottle you must change this when it is empty. Do this in a well-ventilated area. To change the bottle, turn off all gas connections and the regulator found at the bottle. Turn off the gas on the bottle. Carefully unscrew the fitting on the top of the bottle and carefully remove. Prior to replacing the bottle check the condition of the fittings on the hose and on the cylinder valve. Make sure any washer is correctly orientated and free from damage. Make sure that the sealing faces are clean and free from debris. If any sign of damage is present contact the supplier, don't attempt to make the connection. Ensure that the replacement gas cylinder is the correct one for the installation.

Replace with a new bottle, screw the fitting back to the top, ensuring this is tight use a spanner if applicable. Ensure that the hose is not subjected to stress. Slowly turn the gas on the bottle back on, if there is any sign of a leak such as the smell of gas, immediately turn the gas off again. Never use a naked flame to check. You can then turn the regulator and gas manifold taps back on. It may take a few minutes for the gas to pressure the system.

The storage locker has been designed for 2.72kg 907 camping gas bottle sized bottles. Always ensure that bottles are secured using the fittings provided in the upright position with the valve at the top. Make sure that the permanent ventilation included in the compartment is never obstructed.

Gas leaks

LPG is stored under pressure as a liquid. When pressure is released as a valve is opened it boils to form a gas. It is heavier than air and locate at low level in the event of a leak.

If you can smell LPG check that it is not escape from an unlit hob or oven. If you can tell the leak is from a cylinder valve consult a competent person to rectify. If it can't be stopped remove to a safe place in open air away from sources of ignition and any drains or culverts.

If you suspect a gas leak because of an abnormal smell of gas or alarm from detecting equipment turn off all manifolds to appliances; isolate supply control valve on tank; open all doors and windows, call gas safe engineer. If a leaking gas cylinder cannot be stopped, remove the cylinder to a safe place in the open air in an upright position away from drains and any source of ignition.

Do not operate any electrical circuits as these may cause a spark, igniting the gas.

Never check for gas leaks with a naked flame.

Fire safety

In the event of a fire: Get everyone out; turn off liquid fuel valve; Disconnect the mains electricity supply; Raise the alarm and call the fire brigade; Fight fire if safe to do so observing the limitations of the equipment provide or available. The use of the dry powder extinguisher is only recommended if any gas leak is stopped by closing the cylinder valve and the cylinder can be easily removed. Use water to cool tanks that cannot be removed and remove as soon as possible in accordance with gas leak procedure. DO NOT TAKE UNDUE RISKS.

Warning! The external LPG supply, to external supply plug-ins shall not be less than 0.3 bar and not greater than 0.5 bar.

Gas safety

- Refer to all gas appliance instructions before use
- Never use the oven or hob for anything other than cooking. They must not be used as space heaters
- Never use portable gas appliances within your motorhome. They are dangerous and will use up fresh air supply and have not been accounted for in calculating ventilation area
- Never allow mandatory safety ventilation to become blocked or partially blocked (see ventilation in safety features section)
- Never use appliance without adequate ventilation as they consume a lot of fresh air through use
- If you smell gas, switch off all appliances, if possible, shut all valves and exit your motorhome. Do not return until the source has been identified by a competent person or gas safe engineer
- Never use a match or naked flame to look for leaks
- Where practicable turn off appliances before bed, ideally at the cylinder valve
- Turn off cylinder valves when gas appliances are not in use
- If an appliance is disconnected for repair, maintenance, etc. ensure that the gas line is capped off
- If taps are stiff to operate or appear to be a source of leakage, call in a competent installer to rectify. LPG taps require a special grease.

Gas circuit

The gas tank is equipped with a regulator that controls the supply of the pressurised LPG stored in the tank to the motorhome gas circuit at a value of 30mbar. This is a pressure which is suitable for the LPG consuming appliances within the motorhome. Bottles used to supply the system must be compatible with this. Take advice from the bottle supplier to ensure it is compatible with this system.

Warning! Do not alter or change the regulator as this may cause the appliances to operate incorrectly and could lead to extremely dangerous malfunction or leaks.

Fitted appliances & equipment

In the interest of safety, replacement parts for an appliance shall conform to the appliance manufacturer's specifications and should be fitted by him or his authorized agent.

Note: When starting the heater for the first time or after servicing ensure the vehicle has ¼ tank of fuel.

Webasto Heater – Servicing and Safety Instructions

1. Within the territory governed by European Directive 70/156/EEC and/or EC/2007/46 (for new vehicle types from 29/04/2009), there are homologation approvals for the Air Top 2000 STC air heaters in accordance with the ECE-R 122 (Heating) and ECE-R 10 (EMC). NOTE: The specifications of this Directive are binding in the scope of the Basic Directive EEC/70/156 and/or EC/2007/46 (for new vehicle models from 29/04/2009) and should also be observed in countries in which no special regulations exist.
2. The year in which the heater was used for the first time must be permanently displayed on the factory plate by deleting the inapplicable years from the plate.
3. The heaters are not designed for heating hazardous substance transport compartments. To install the Air Top 2000 STC D heater unit in hazchem vehicles, the requirements of the Directive ECE-R 122 must be met.
4. Claims can only be made if it can be verified that the claimant has complied with the servicing and safety instructions.
5. The heater must be switched off at filling stations and tank farms because of the risk of explosion.
6. The heater may not be operated in enclosed spaces (such as garages) because of the risk of poisoning and asphyxiation, even if a timer or Telestart remote is used.
7. The heater must be checked by an expert at the latest at the start of the cold weather period.
Introduction Servicing and safety instructions Operating Instructions Air Top 2000 STC
8. In the event of long-lasting heavy smoke development, unusual combustion noises or a smell of fuel or if the heater suffers continuous fault cut-outs with error messages (flashing code), it must be shut down by removing the fuse and must not be reused until it has been inspected by Webasto-trained personnel.
9. Wherever inflammable vapours or dust may form (for example in the vicinity of fuel, carbon, wood dust or cereal stores or the like), the heater must be switched off because of the risk of explosion.
10. The heat transfer unit on air heaters is exposed to very high thermal stress and must be replaced by a genuine Webasto spare part ten years after it is used for the first time. If exhaust lines pass through areas used by personnel, they must also be replaced by genuine spare parts after ten years.
11. The fuel specified by the vehicle manufacturer is suitable for use in the Air Top 2000 STC B (petrol EN228). The diesel fuel specified by the vehicle manufacturer is suitable for use in the Air Top 2000 STC

D (diesel EN590). We know of no negative influences due to additives. If fuel is extracted from the vehicle's tank, follow the additive instructions issued by the vehicle manufacturer. If you change to low-temperature fuel, the heater must be operated for approx. 15 minutes so that the fuel system is filled with the new fuel.

12. The temperature in the area around the heater must not exceed 85 °C (storage temperature). If the temperature exceeds this level, there is a risk of permanent damage to the electronics systems.

13. Non-compliance with the installation instructions and the warnings contained therein will lead to the exclusion of all liability by Webasto. The same applies if repairs are carried out incorrectly or with the use of parts other than genuine spare parts. This will result in the invalidation of the type approval for the heater unit, and therefore of its homologation/ ECE type licence.

14. Keep the hot air inlet and hot air outlet free of dirt and foreign bodies. Soiled or blocked hot air lines may cause overheating, and therefore result in the overheating cut-out tripping.

15. To prevent mechanical parts seizing, the heater should be operated for approx. 10 minutes every four weeks.

16. Do not stand on the heater and do not place any heavy items on the heater or throw items at the heater.

17. Do not place any items of clothing, textiles, or similar materials over the heater or in front of the hot air inlet and the hot air outlet.

18. The current of hot air in the heater must not be restricted or blocked by highly inflammable substances or materials such as rags, cleaning wool, etc.

19. The heater must not be cleaned with a high-pressure cleaner.

20. The Webasto heater is suitable for use whilst the motorhome is in motion. All other gas equipment must be turned off when the vehicle is in motion. For safety ensure that the supply valves are shut to all other appliances prior to setting off.

Control element



Rotary knob for:
- Switching on and off
- Setting the room temperature
- Resetting after a fault cut-out

Indicator/error code display

! Changes to the settings on the control element will be carried out with a time delay

Switch On

Set the rotary knob on the control element to the desired temperature. NOTE: To prevent the hot and combustion air fan from blocking or scraping, ensure that there are no objects on or against the heater before you switch it on. NOTE for ADR mode only: The Air Top 2000 STC heater is switched on and off by hand using a switch. The use of automatic control systems is prohibited. In class FL vehicles these heaters must not be used during loading and unloading procedures or at loading points. In class FL vehicles the heaters are switched off automatically and the combustion air supply is interrupted for a

maximum of 40 seconds if: - The vehicle's engine is at a standstill; in this case the heater can be switched on again by hand. - A pumping device that is part of the vehicle is started. The control unit is then in fault lock-out mode. The ON/OFF switch must be set to OFF before the heater can be restarted

Warning! Ensure you have followed all the manufacturer's instructions regarding the use and protection of the system.

Warning! Before you enter a filling station turn the heater off and close the gas connection.

Worktop mounted hob (if fitted)

There may be a two-burner hob mounted in the worktop of your motorhome with adjoining sink. Prior to its use you must read the manufacturer's instructions and comply with all safety warnings. The hob uses gas as a fuel source supplied by your motorhome's gas circuit. Ensure that you have read the relevant section of this handbook prior to use.

Warning! Never use the hob for anything other than heating food stuffs. You should ensure all burners are turned completely off when not in use.

When turned on and ignited, the hob presents a naked flame. Ensure that there are no combustible materials within reach of the hob unit. You should check that pans used are suitable for use with this type of hob. When removing pans from the heat protect the worktop which may be damaged if pans are placed directly on it. The metal surface of the hob will retain heat after use. Do not touch it or you will risk injury.

Instructions regarding the use of the hob, safe ignition procedures and adjusting the heat provided are found within the manufacturer's manual. If naked flame is used ensure it is lit before turning the gas on.

Ensure window is open when cooking on the hob!

Refrigerator

The fridge fixed within your motorhome is capable of using 12v as available.

- Only use 12v power when the vehicle engine is running as this can significantly drain the batteries
- Pay particular attention to leisure battery condition if not using mains hook up and the vehicle engine is not running.
- Switch off the rocker switch on the side of the unit to turn the fridge off when the vehicle is not in use.
- Turn the dial to zero in the fridge while driving and in storage.



Toilet

Your vehicle has a portable toilet situated in the cupboard next to the fridge. Please familiarise yourself with user manual on how to operate.

Warning! Do not use household cleaning products on the toilet. These will damage the unit and stop it functioning correctly. Specialist cleaners are readily available as recommended by the toilet manufacturer.

Electric sidestep (if fitted)

The electric sidestep is operated by pressing the lever button mounted to the left of your motorhome sliding door. Make sure that your legs are clear of the step prior to operation and that there are no other obstacles in its path. Note the step will not operate with the vehicle ignition turned on. Make sure that the step is fully extended before use.

Warning! Check that the step is fully retracted prior to starting your motorhome to move away.

The step is fitted with an electronic failsafe which should retract the step when the vehicle ignition is turned on. However, it is your responsibility to ensure that the step is fully retracted prior to moving.

Dirt and frost risk fouling the steps running gear. Should dirt be present clear it out of the steps runners. If there is a risk that frost has got in the step heat before use to reduce the risk of the step jamming.

If the step will not retract through electrical malfunction:

- Remove the front plate of the step
- Remove the connection between the footboard and the arms
- Slide the step into the unit
- Reinstall the front plate

Warning! Ensure that the awning is completely retracted into its case prior to moving the motorhome.

If a safari room option is to be used with the awning, make sure that adequate ventilation remains when an LPG consuming fridge has been fitted. For more information read the gas connections section of this handbook. A gas-powered space heater is not suitable for use in a safari room unless supplied with its own combustion air.

Pop Top Operation

To lower the roof, firstly shut all the windows & vents in the canvas. If a mattress is stowed in the roof, ensure it is central and away from the sides. Open windows or a door in the vehicle to stop the canvas billowing out and catching the hinges. Pull the roof approx 75% of the way down using both handles, and then check that all material is inside, taking extra care around the sides / hinges. Once you are confident all the canvas is inside, pull fully down and fasten straps firmly to secure.

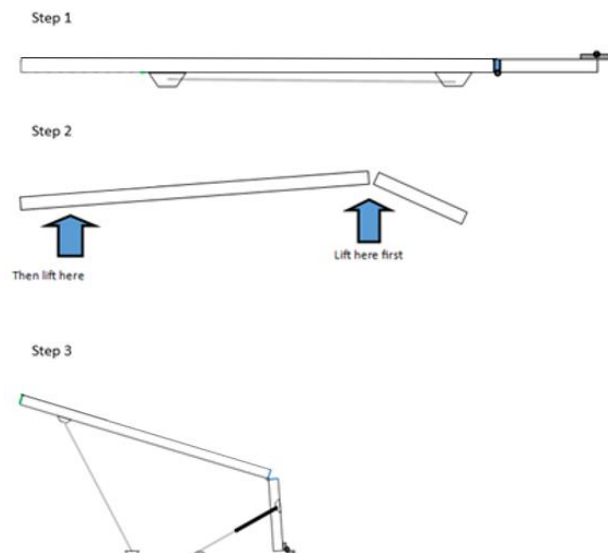


To open pop top

1. Loosen straps above passenger and drivers positions
2. Push roof until fully extended and canvas is tight.

Bed Elevation

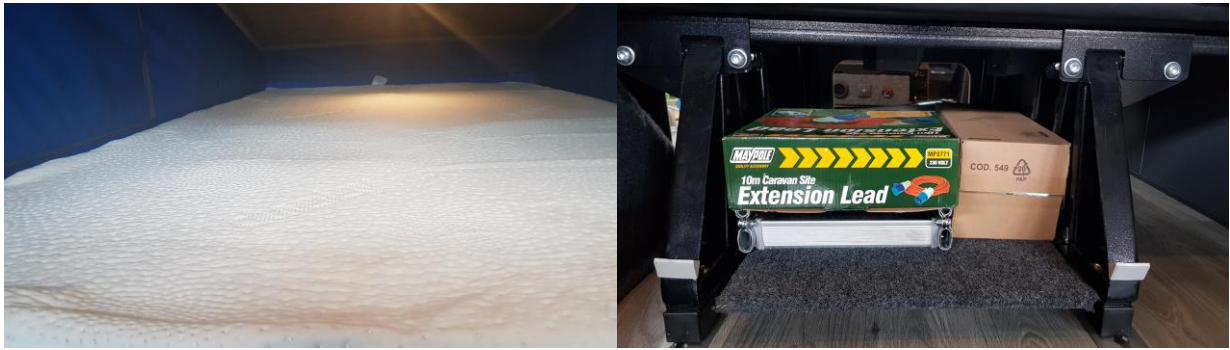
Prior to elevating the bed, remove any bedding as it could contact the pop top canvas and become wet or cause damage to the canvas.



Microwave

Your motorhome has been fitted with a microwave. The microwave is similar to most domestic microwaves, however before using please ensure you have read and understood the user manual supplied and that all safety advice is followed to avoid risks to yourselves and the motorhome.

Mattress Stowage & Ladder Stowage



Mattress is stored in the pop top section at the top of the vehicle, but it can also be stored at the rear of the vehicle.

Ladder is stored underneath the sliding seat and can be accessed from the rear of vehicle.

Ensure the ladder is secure in the clips (below right) before attempting to ascend into the upper bed platform. The ladder has locking clips that must be engaged by rotating, below right shows open clips in the open position.

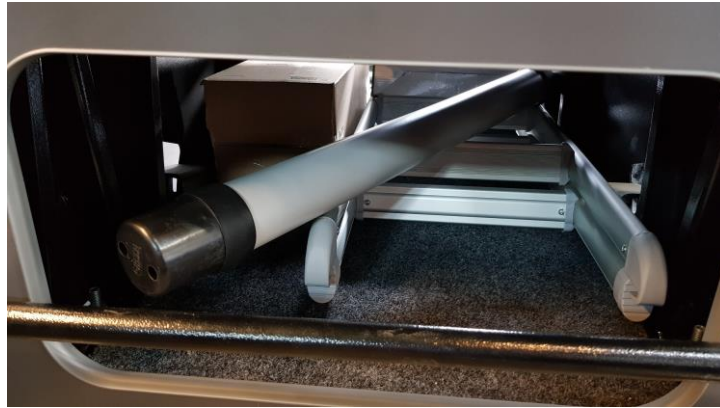


Table Stowage and Assembly

To remove the table from the mounting, release all four clips ensuring the table is supported.



Table Leg and Base is stored underneath the sliding seat and can be accessed from the rear of vehicle.



Open tripod base out then attached table leg, which is a push fit, then attach tabletop which is also a push fit. Assembly below.



Swivel Seat

Before operation, ensure the seat is raised to its maximum height by using the lever.



Seats can be easily swivelled by engaging the black ended handle, then turn seats to desired position.



NOTE: ENSURE SEATS ARE SECURE FACING FORWARD WHEN DRIVING!

Convert Rear Seat into Bed

Squeeze and pull the black handle on the seat base to pull it forward



The seat will slowly unfold as the handle is pulled forward



Pull the black strap on the right-hand side of the bed/seat to return it to the seat position.



Use the black handle to finish putting the chair into the travelling position and locking it into place



Wheel Arch Box

Lift off the infill on the wheel arch box to access storage compartment.



Ensure when driving the seat bar securely locks in position as shown above!

Inverter



Please note your vehicle is fitted with an inverter, located at the side of the passenger seat, note the inverter is only suitable for running laptops and similar electrical appliances, any attempt to run, kettles or similar electrical appliance will drain the leisure battery and could result in damage of appliances or battery.

Thermal Screens

The thermal screens are simply attached to window by the suckers situated around the perimeter of the screens, they offer thermal protection and privacy. If the suckers are not attached simply push through the holes in the screen, with the suckers on the shinney side of the screen.



Windows

Single glazed glass windows can be cared for and cleaned in the same manner as normal automotive windows. Care should be taken when cleaning the inside to avoid damaging the tint applied to the window.