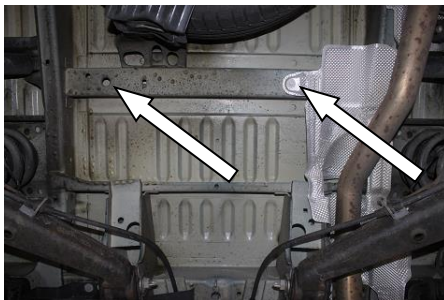


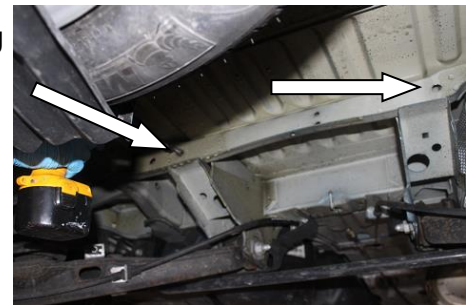
Gastore tank fitment under VW T5

You will be working in the space in-front of the spare wheel and between the two rear wheels. Ensure the vehicle is securely supported before attempting any work underneath the vehicle.

Remove the vehicle Exhaust heat-shield mounting as pictures, bend the shield down and trim to provide heat protection for the Gas tank when fitted.



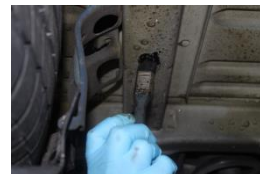
Identify the four pre-existing holes in the chassis we will use to mount the tank.



Drill these holes out to 13.0 mm.



And treat raw edges with a suitable Corrosion inhibitor



Use the 4 x M10 Nutserts supplied with the Gastore frame and Insert into the holes. Using a good quality *Nutsert tool secure the M10 Nutserts into the vehicle chassis. It is very important that these are fitted securely and in-line with the instructions supplied with your Nutsert tool. **Failure to ensure a good anchor will jeopardise the safety of your installation.**

*We recommend using the Masterfix MFX612

At this point it would be advisable to enlist the help of a mate...

Carefully support the weight of the tank and cradle (14kg) and offer up to mounting positions in the chassis.

Using the Stainless Steel M10 bolts and washers supplied, secure the tank and cradle in position.



Fill point fixing



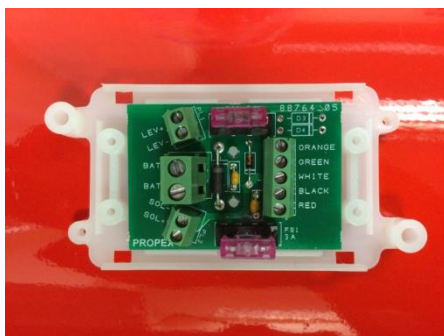
On the chassis behind the bumper you will find an M8 bolt going through two chassis members, remove this bolt. You will need to put a small slot approx 75mm x 20mm in the plastics and feed the mounting bracket through, line up and use the bolt to secure the fill point in place.

Secure the fill point hose along its length back to the tank with fixing at least every 600mm using the P clips supplied.

You can now connect your low pressure gas system downstream of the regulator.

Electrical connections


The kit is supplied with two cables to the tank. The Black and White cable fits the level sender gauge and Blue and Purple go to the solenoid valve. They are not polarity Conscious



Secure the junction box provided internally in the vehicle and run the two cables from the tank to the junction box. Make the connections as indicated on the board. Bring your 12v DC feed from your leisure system into the centre block.

Position the gas control where it will be easily seen and operated by the campers occupants but not where It may interfere with the drivers vision whilst the Vehicle is being driven. Run the 5 core cable to the Junction box and make the connections to the 5 way Connector as indicated on the board. Secure all cables.



The GASTORE control is microprocessor controlled, on first switching the unit on using the left  button you should see the GREEN led's illuminate in a sequence whilst it carries out a self test. This should then leave a single RED led illuminated assuming the tank is empty. During this first 2 seconds the controller is supplying 12v@1A to the solenoid to open it, after this 2 seconds, and now

the solenoid is energised, then the controller reduces the solenoid supply to 3v at <100mA and so reducing leisure battery drain to a minimum.

Operating the button on the right will allow 7 levels of illumination to allow the user to obtain the brightness to suit his preferred level.

The controller and system has built in diagnostics and fail safe systems, so should a fault occur errors will be displayed as follows

Front panel LED Error Codes:-

The Flashing Red LED (Approx 1 Hz) indicates a Gas Control Valve has a problem as follows:-

1.) Red LED and nearest Green LED flashing

Wiring problem:-

The 0 to 90 Ohm LPG tank Level Sender is 'open circuit' or not connected.

Remedy:- Check Level sender wiring.

2.) Red LED and second nearest Green LED flashing

Battery supply voltage problem:-

The battery supply voltage has dropped below 9.5 volts DC. (Gas solenoid is now turned Off)

Remedy:- Turn Off and recharge the battery.

3.) Red LED and second nearest Green LED and last Green LED flashing.

Battery supply voltage problem:-

The battery supply voltage has dropped below 9.5 volts DC and has now risen to above 10 volts DC. (Gas solenoid is now turned off)


Remedy:- Turn the Gas Control valve Off and the then back ON again.

4.) Red LED flashing and third nearest Green LED flashing.

Gas Control Valve internal problem.

Internal Gas Control Valve unit has an internal problem with its Level gauge measuring circuit.

Remedy:- Return for repair.

When the  button is switched off and no lights are showing then the solenoid on the tank is closed and the entire gas system is isolated. It is strongly recommended that whilst the vehicle is being operated, refuelled or the vehicle is parked on inclines exceeding 20 degrees from the horizontal then the control is switched off and gas appliances are not operated.

Commissioning and hand over

Once all the gas system is installed, carry out initial gas check and system tightness checks in-line with BS EN1949. All gas system work should be carried out by a competent person.

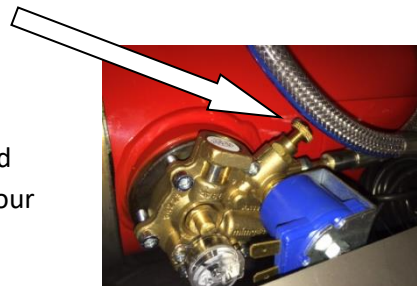
When filling the gas tank for the first time ensure you are happy that the filling shuts off at the 80% full, which would equate to +/- approx 12 litres. When the gas pump shuts off STOP !!! - DO NOT TRY TO SQUEEZE A LITTLE MORE IN.

The regulator is fitted with a gas test point that takes a standard GOK test nipple, this will allow testing of the low pressure side of the circuit. An LPG sniff tester should be used to detect for leaks on the high pressure side.

Further information on LPG storage tanks, commissioning and testing can be found in UKLPG CoP11 or NCC CoP306. Should you have any doubts or questions over the installation of this equipment call Propex Heating and Leisure on 01425 486950.

Once all installation and checks are completed satisfactorily coat the tank and exposed brackets in underseal to protect against corrosion

When handing the vehicle over, advise the customer the position of the **manual** shut off on the multivalve on the tank. You should include the tank, multivalve and regulator documentation and GASTORE log card with your vehicle pack



Operation

This system has been designed to provide LPG gas in its vapour stage for running standard leisure vehicle appliances such as a cooker, hob, air and waters heaters and Gas BBQ's. The system is designed to be easily refilled at forecourt filling stations saving considerably on the cost of gas. Having the gas located outside increases safety by eliminating handling of containers as well as easily being able to isolate the gas at source when the system is not in use.

Basic precautions should be taken when filling the tank. You should understand that this tank is designed to be filled to maximum 80% of capacity, or 12 litres of gas (6kg). The LPG filling pump will cut off automatically when it reaches the 80%. Maintaining the space in the top of the tank allows the liquid to convert to vapour, should you suspect that you have an overfilled tank do not attempt to use an appliance but seek advice from an LPG gas professional.

The Gas system should only be switched on when the vehicle is **stationary** and on **level ground** and then switched off before moving the vehicle. If the row of lights on the gauge is indicating a level then this also shows the tank valve is open, so no lights and the valve is shut!! It should be off when the vehicle is being driven.

The system should be pressure checked and inspected annually for damage or corrosion in line with UKLPG CoP11.