

Vapor lock happens when your fuel boils in your carburettor in the case of the Morgan your fuel line, which runs just below the bonnet directly above the engine. It's most likely to happen while driving on a hot day and in stop-and-go traffic. Constant acceleration and deceleration make your engine work harder, causing it to run hotter. Excess heat causes the fuel to vaporise. Vaporised fuel creates back pressure in your fuel system and prevents fuel from getting to your engine.

If this happens don't panic wait 10/20 seconds then can gently start the engine and try the following:-

Gently Start the Engine. Turn the key in the ignition to start the vehicle while at the same time slightly depressing the accelerator. Do not press the accelerator all the way to the floor, as this will send too much fuel through the system and prevent the vehicle from starting. Hold the accelerator down when the vehicle starts until the engine is running smoothly. The engine will sputter for a few seconds until the vapor lock is cleared from the lines.

On my 2001 4/4 it was a quite scary when I last had vapor lock, the car cut out in the second lane on the M6 smart motorway with no hard shoulder, yes it was time to get to the bottom of this issue, luckily an easy and cheap fix and relatively quick, took me about max of 2 hours.

I replaced the Morgan roll over valve, with a Newton fuel tank rollover valve, replaced the pipes to the valve from the tank, cost for these parts was around £60.00 I purchased from <https://www.merlinmotorsport.co.uk/>

Basically a fuel tank valve that allows; 1) air to replace fuel used. 2) air to escape due to heat expansion. 3) a positive shut off to prevent fuel escape due to splashing or roll over. This is achieved by a two ball system. The Valve must be mounted vertically and recommend fitting these valves a good distance away from the fuel tank (which isn't easy on the Morgan so I fitted it in the same place that Morgan fitted the original one) to prevent them filling up with fuel in the event of hare cornering/braking.

To finish I wrapped the fuel lines above the engine with a Silver Velcro heat sleeving and wrapped the fuel filter with Funk Silver Reflective Heat Tape at a cost of about £100.00 purchased from <https://www.funkmotorsport.com/>

Hope this maybe useful!