

## Porsche 911 GT2

**As well as all of RacingLine's work with Volkswagen Group, we also have frequently been asked to carry out specialist conversions on other makes.**

**The GT2 owned by BP was an interesting example. BP need this car to demonstrate the advantages of Ultimate 102 fuel.**



The brief from BP was to be able to change fuel supply at the press of a switch on the dashboard. Two tanks in the front boot area would contain either normal 97 BP Ultimate fuel or the 102 Octane Ultimate.

Whilst this sounds relatively simple, the plumbing and switching system with all of the return fuel lines was anything but straightforward. And with the need to ensure that there was no cross-contamination between the two fuel types this made the system even more challenging to design.

In the end it was our motorsport links that came up with a solution. Rather than having a fuel delivery line, then a fuel return line back to the tank as virtually every new car has, we chose to develop a non-return system controlled by pressure regulators. This is an emerging technique that has been used on NASCAR racers in the states which avoided complex return lines to the correct tanks.

A pressure regulator on top of each front-mounted tank was controlled by pressure sensors on the fuel rails on the engine. As soon as the required pressure is reached in the fuel rail the regulator reduces its delivery rate.

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An extensive testing programme was developed, testing the theory on the work bench before installing components into the car. The system worked exactly as intended, and is a beautifully simple solution.

Meanwhile, twin tanks were built for us by specialists ATL to exactly fit into the space originally occupied by the standard car's tank - a very oddly shaped hole between the cabin and the boot area. Cardboard templates were made up to fit the size very precisely before being constructed as bag tanks.

Finally, as a precaution, a fully plumbed-in fire extinguisher system was fitted.

The end result is an extremely neat system that is completely invisible apart from two switches on the dashboard.

The Porsche is now on duty with BP attending high profile events such as Autosport International and Goodwood Festival of Speed.

This was RacingLine's first experience of BP's 102 Ultimate fuel and we have been absolutely impressed by what it allows the tuner to do. When using the 102 Ultimate the Porsche's power output goes up to 550bhp.

