



# St Georges Day Run



As if St George himself was smiling down on us, what an absolutely beautiful day for the lunch run in his name.

Grateful thanks go to Ken and Jackie for organising the weather, the run and a lovely pub for lunch. From The Olive Bush cafe where we met for coffee and chat, we all set off on our way through beautiful countryside and lovely roads, without too many potholes! the route took us through Oaksey, Crudwell, along Newnton, Tetbury, Doughton and ultimately to Hillesley for lunch at The Fleece. The wild garlic in the woods down to the pub was particularly magnificent. And for those who were navigating, the views were spectacular too.

For our part, the roads were well suited to the Healey! Very enjoyable. So thank you very much both of you.

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## THE ELECTRONIC ENGINE – THE MECHANICAL ENGINEERS DREAM – 27<sup>th</sup> Feb '26

Talk to FCC by our member, Andrew Ives CEng, FIEE, FIMechE

Back in 1997 Andrew presented a paper to the Institute of Mechanical Engineers detailing the developments of force-fed fuel injection which, over time, replaced the ubiquitous float-fed carburettor systems, which had been invented by Edward Butler in the late 1880s. Whilst we all assume forced fed fuel injection to be a relatively modern invention, during Andrew's research, he was amazed to find that it actually appeared on early motor cars as early as the 1890's, all-being in a 'primitive' form.

It was not until the 1930s that there was a real revival in fuel injection systems in motor cars, probably resulting from the work undertaken on aircraft engines during the 2<sup>nd</sup> WW. Well known examples of these included the mechanical rotary injection systems used in the 1960s on the F1 BRM V8 1500cc engine and on the 2.5lt Triumph saloon and sports cars – systems which Andrew worked on.

The big limitation of these mechanical systems was to very accurately achieve the desired air/fuel ratio throughout the full operating range of the engine. This is where the emergence of electronic controls started to overcome these limitations and helped the mechanical engineer's dreams become a reality. Through the introduction of increasingly sophisticated controls including solenoids, mass airflow meters, airflow sensors and eventually Lambda sensors it has become possible to accurately control air/fuel flow mixtures over all aspects of the engine's operating range and, most importantly, meet and enable the introduction of increasing legislation.

Andrew made what could have been a very technically detailed talk into a fascinating story which we could all understand, but also stressed his admiration for Edward Butler who, back in the late 1880s, introduced the idea of float-fed carburettors to provide the air/fuel mixture, which lead to our modern electronic injection systems.

Malcolm Cutler

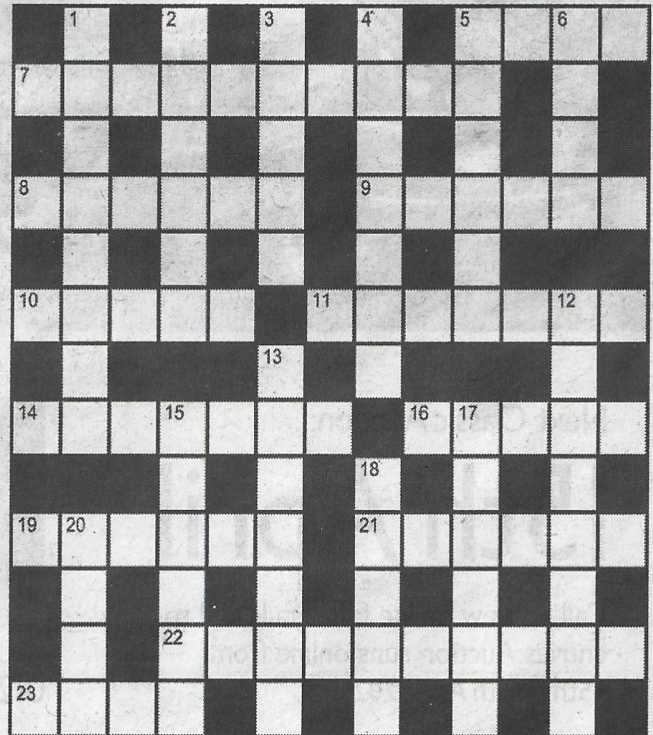
# Mays Crossword

## CLUES ACROSS

- 5 Riley-badged Mini derivatives with a boot (4)  
 7 Tamworth-built 1980s utility vehicle (7,3)  
 8 See 16 across  
 9 UK car group that Chrysler took over in the 1960s (6)  
 10 A 1997 release from Perodua – the UK's cheapest new car at the time (5)  
 11 The Martina was a more affordable alternative to this Marcos model (7)  
 14 The Lancia Ardena's V8 sister models (7)  
 16 & 8 across The man behind East Germany's RS 1000 (5,6)  
 19 Buckland variant of the AC 2-Litre (6)  
 21 Nickname for a fabric-roof convertible (6)  
 22 AX predecessor (7,3)  
 23 Small Suzuki with a voice of its own? (4)

## CLUES DOWN

- 1 Superleggera Sunbeam coupés built briefly in the 1960s (8)  
 2 A utility vehicle such as the Subaru BRAT (4-2)  
 3 It took over the Spanish arm of Hispano-Suiza in 1946 (5)  
 4 True L-R Defender terrain (3-4)  
 5 A strategy that meant that most Triumph TR6s weren't stay-at-home models (6)  
 6 \_ speed gearbox, a feature of some late model Elan Sprints (4)  
 12 Premium American cars like the Town Car (8)  
 13 The Ford Sierra RS Cosworth's turbo came courtesy of it (7)  
 15 A 1970s Lambo made in P200, P250 and P300 guises (6)  
 17 Heart of the Vanden Plas Princess 4-litre R, sourced from Rolls-Royce (6)  
 18 Saloon spin-off of the Ford Escort (5)  
 20 A Kadett-based GT (4)



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