

## JOY DRINKS LIKE A CAMEL.

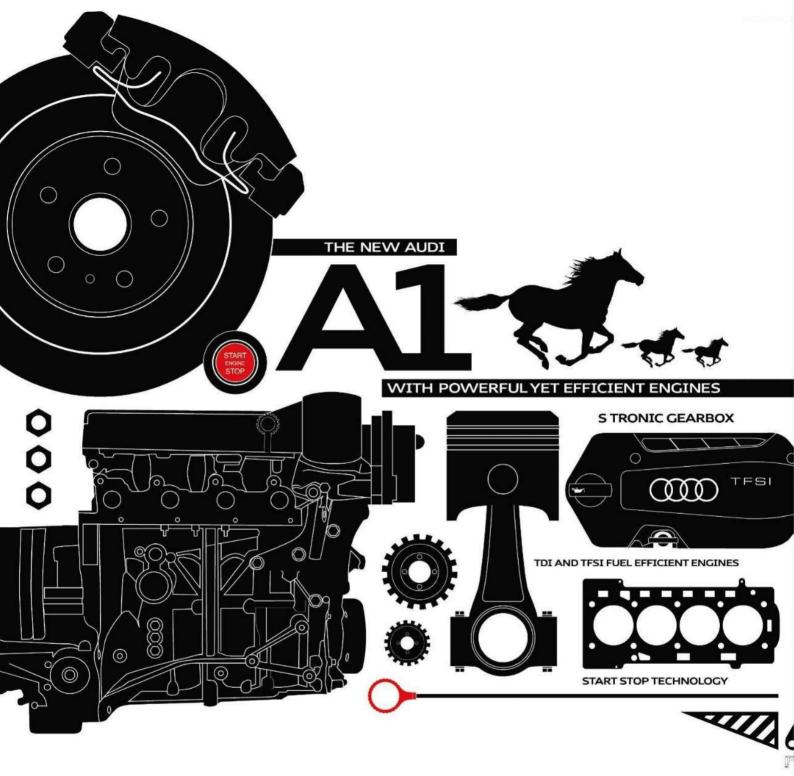
The new BMW X3 xDrive20d gives you 184 hp and reaches 0 – 62 mph in just 8.5 seconds, but does so while achieving an impressive fuel consumption figure of 50.4 mpg. Which is great news for everyone, although it might give some petrol attendants the hump. To find out more visit **bmw.co.uk/X3** 

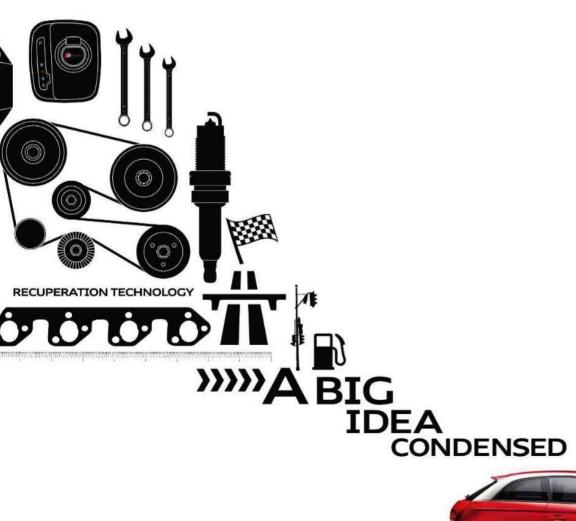
### THE NEW BMW X3. JOY WANTS YOU TO HAVE IT ALL.









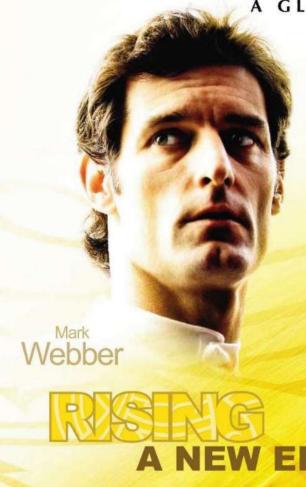








A GLOBAL PARTNER



Sebastian Vettel

V ERA



# Contents

ISSUE 151



## DRIVEN

- AUDI R8 GT
- BMW 1-SERIES M COUPE
- O SUBARU WRX STI
- AC SCHNITZER ACS4
- O LOTUS EVORA S
- O FORD C-MAX
- O CITROËN DS3 99G











### 012 News

Red Bull doesn't just make fizzy drinks and Formula 1 cars – it does space-age supercars, too

### 059 Letters

Lotus needs to change, we need to stop driving Nissan Jukes, and Chris Harris needs to man up

### 064 On the cover: Veyron Super Sport

The world's fastest supercar is the Bugatti Veyron Super Sport. But does 268mph and 1183bhp translate into a useable and engaging road car? Chris Harris and Harry Metcalfe spent a special day with one finding out

## 078 Top speed stories: fact or fiction?

Supercar speed record stories always attract their naysayers. We split the truths from the myths

## 080 The world's fastest four-door

G-Power's BMW M5 goes faster than most hypercars...

### 092 Lamborghini Super Trofeo

Roger Green and John Barker in the world's fastest one-make race series

### 098 2400bhp Corvette

Jonny Smith rides shotgun in the world's fastest street-legal car

### 114 Audi RS5 v its rivals

Can the new RS5 beat the BMW M3, Mercedes C63 and Lexus IS-F?

### 130 Long-term tests

Our Aston Martin Roadster has gone, leaving a frisky Spaniard, a powerful Brit and a big-winged Italian to fight for its parking space

### 145 Buying Guide: Fiat Panda 100HP

A small bundle of Italian energy for a small handful of cash

### 178 Me and My Car: Chris Bale and his DeLorean DMC-12

Meet the man who found a DeLorean impossible to resist



Model shown Fabia vRS 1.4 TSI 180bhp DSG 7spd at £16,155 OTR inc optional black roof at £355.00 and 17" 'Gigaro' black alloy wheels at £100.00. Tinted windows not to UK specification. Official fuel consumption in mpg (litres/100km) for Fabia vRS: Urban 36.7 (7.7), Extra-urban 54.3 (5.2), Combined 45.6 (6.2)  $CO_2$  emissions for Fabia vRS: 148g/km.

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## **ED SPEAK**

Tried something new this month. I've kept a diary of the 28 days it takes to put together an issue of evo. Highlights and lowlights here...

Day 1: Great features meeting, 'World's fastest' theme emerging. We're booked on Vevron Super Sport drive, Koenigsegg Agera test lined up, we've got stories on the world's fastest street car and the world's fastest one-make racer in the bag and JB proposes an RS5 group test.

Day 4: Good and bad day. Monkey on phone raving about 1-series M Coupe, Henry off to drive new 4dr Scooby, and RS5 and rivals are in the car park, But... I've fallen out with a major manufacturer. Press officer wouldn't speak to me at Paris show. Arguments rumble on about using non-press cars in features. Fundamental differences but I'm hopeful of a compromise.

Day 6: DS3 99g just arrived. Should we feature it? Not a core evo car but it's more fun than expected. Ideal 'Outsider' methinks. Just driven Harry's new Countach too. FFeellllinnggg aa bbbittt sshhaaakkkyy. What a rush! Carbs rule. Exhaust pops like a beat-boxer with tourettes.

Day 8: Quiet office. Team on RS5 test but Dickie just texted saving Audi isn't the car they hoped. Pity as our TT RS long-termer just gets better. Might pinch it off Rog now my Aston's gone...

Day 10: evo is properly digital now. Zinio editions selling well and I'm working on a new interactive iPad version of the mag. It's brilliant! Plan is iTunes release by end of November.

Day 12: AM: Production halted by Cold War nuclear bomber! Got a tip-off that Vulcan will be flying at nearby Sywell - entire office decamps, PM: Langy creates shot-list for Veyron drive, Day 14: Biggest day of the issue, but French trying to ruin it. evo's team of four miss flight

connections for Veyron drive because of Gallic strikes. Time is tight: our shot-list is ripped up. Day 18: Agera drops out. It's not yet representative of the production car. Some mags will 'test'

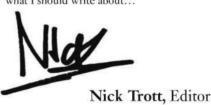
anything but I'm not playing that game. Means we've got an eight-page hole to fill. Gulp. Day 20: Chat with John Hennessy. Asked if Venom is ready (to replace Agera), but he's a fan of evo and doesn't want us in it until final testing is over. 'I want the car to be right for you guys.'

Day 22: Getting twitchy. Still got eight-page hole but have never put 'fillers' in and not starting now. Slim chance of R8 GT and Evora S drives though. Being pushy with Audi and Lotus...

Day 24: Red Bull X1 shots in. Ollie has scored a genuine exclusive but spent the night at the factory to get it. Red Bull boss Horner rescheduled a meeting in the build bays because we were in them! Day 27: Result, Henry gets first UK drive in the R8 GT and IB is in Spain driving Evora S before main UK press group. Design and production has got one day for layout and subbing before printers scream for the pages. 12-hour days for most of us this week.

Day 28: Deadline day! Just got Ed Speak to put together - wonder

what I should write about ...





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### CARBUYER.CO.UK LAUNCHED

From the people who bring you Auto Express and evo, a new easyto-use website that does exactly what it says on the, er, screen.

### HEROES OF THE

### THE BLADON BROTHERS

 $\blacksquare$  It's amazing what we Brits get up to in our garages and sheds. Take twin brothers Paul and Chris Bladon, who built trick racing motorcycle engines in their farm shed for years until one day Paul thought he'd have a go at making a micro jet engine. The brothers worked all hours on the idea until, in 2004, they finally ran their tiny jet engine for the first time. Paul sadly died from cancer in 2008 but Chris (right) continues the project, now in partnership with Jaguar (see page 18). Good work, chaps!



## **QUESTION:**

WHAT HAS 5059BHP, OSTS £1.413M AND EATS 18.5° PETROL STATION SANDWICHES A DAY?

**ANSWER:** 

\* There's always half an egg-and-cress sandwich left

ON SALE WEDS DECEMBER 8



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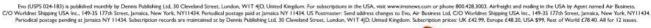
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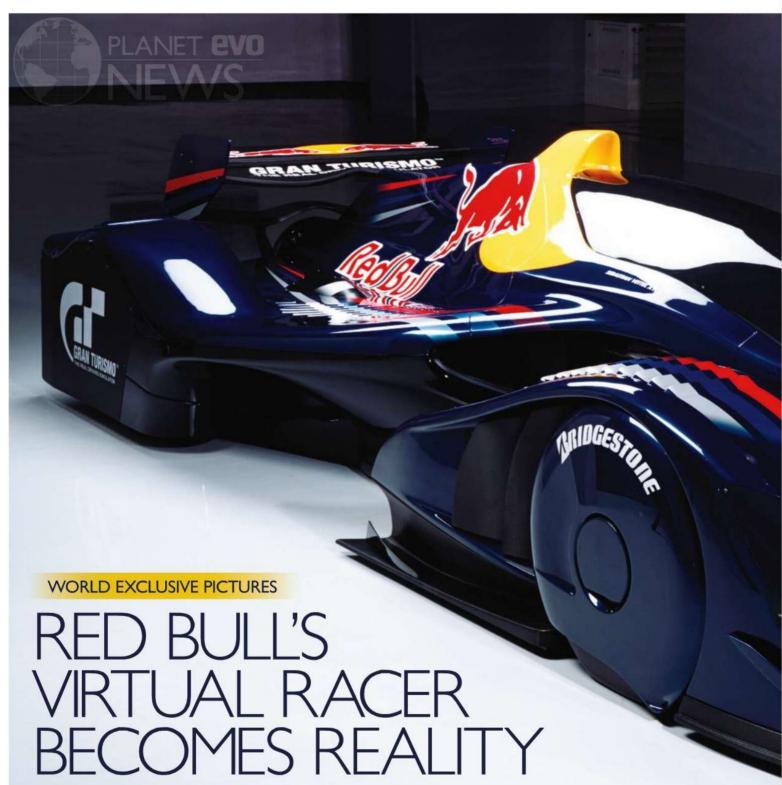












GRAN TURISMO 5, NOW IT EXISTS AT RED BULL'S F1 HQ.

**OLLIE MARRIAGE** 

GETS UP CLOSE TO THE AMAZING X1 PROTOTYPE or several minutes all I can do is walk around it in a slightly bewildered manner. Apparently this reaction is normal. Twenty minutes before we arrived, the man largely responsible for the X1 Prototype's existence, Red Bull technical director Adrian Newey, had dropped in for a sneaky peak. 'He was gobsmacked,' one of the crew tells me, adding, 'wish

we'd got a picture of his face!'

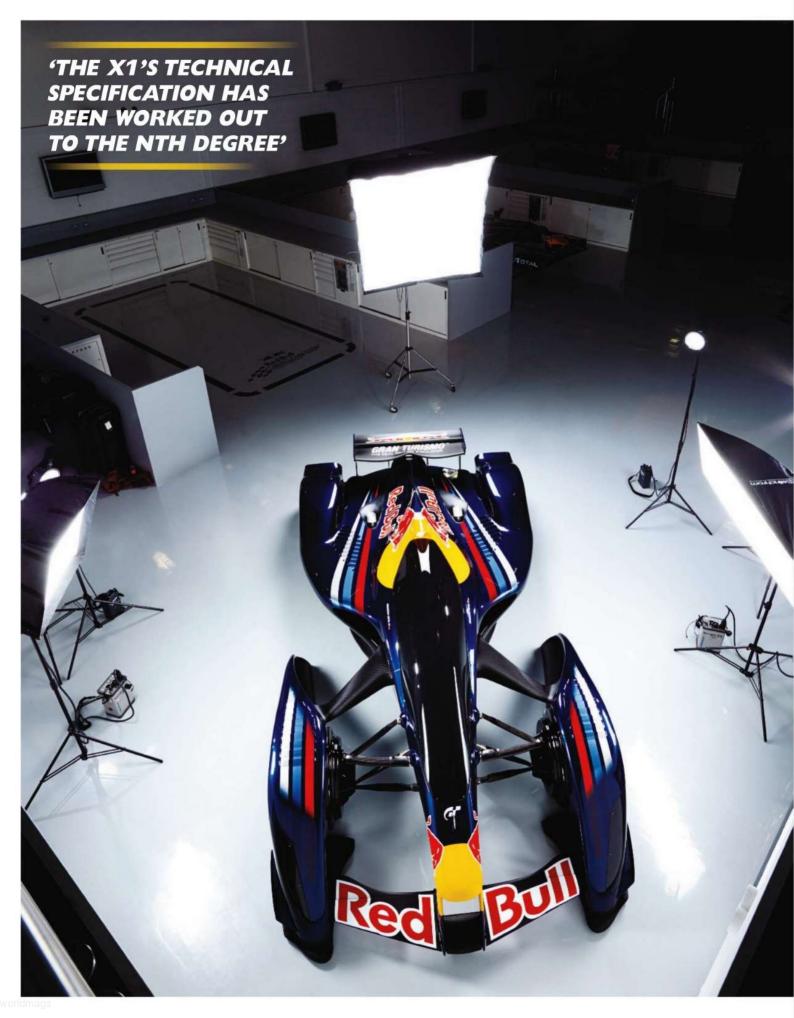
The X1 is, by any stretch of the imagination, a mad looking thing. But what exactly is it? In fact it's the answer to a question posed to Newey by Kazunori Yamauchi, CEO of Sonysubsidiary Polyphony Digital, the firm responsible for the legendary *Gran Turismo* racing games. The question: what would a no-limits F1 car be like?

By sheer coincidence, evo's Roger Green had posed the very same question to Newey in last month's Planet Evo interview, to which Newey replied: 'It would need to have active aero. You would probably include the fan of the Chaparral for low-speed performance and then bolt that to the biggest engine you could find.' All of which would prove prescient, although unfortunately Newey didn't go on to say, 'Half a mo, Rog. I've been having a good think about this recently – have a gander at this.'

But then a month ago this car only existed on a computer. The X1 will



'THE X1 PROTOTYPE IS THE ANSWER TO THE QUESTION: WHAT WOULD A NO-LIMITS F1 CAR BE LIKE?'











Above: exhausts exit from upper bodywork. Left: F1-style windspeed sensor on the X1's nose. Bottom left: X1 model in the early stages of build

be Gran Turismo 5's killer car, and according to our Sony source 'it'll be the hardest car to win and by far the fastest and best handling'. Now, in a somewhat ironic twist for a computer game company used to digitising real cars, here's one that's making the leap from pixels into reality.

It's currently parked in one of the pristine F1 build bays at Red Bull's Milton Keynes HQ. Next door is Mark Webber's 2009 car. Beyond that, this year's car, stripped of all bodywork and presumably fresh back from a disappointing Korean GP, is being diligently worked on. If we wanted a rapid, your-feet-won't-touch-the-ground exit, pointing a camera in that direction right now would be a good way of achieving it. I know this because when I innocently wander around last year's RB5 taking a few happy snaps, our minder makes me delete almost all

of them. Apparently the rear diffuser is still a sensitive area. So I hope I'm not going to get in any trouble by telling you that the *top* of the engine in this year's car doesn't even reach your knees. It's staggering.

The people round here are used to it, though. What they're clearly not used to is the X1. Final assembly only took place this morning and the project has been so secret that, even here, few people know what's been going on. But word has clearly filtered round and, by late afternoon as shifts are finishing, pockets of workers turn up to have a look. I catch snippets of conversation as people much cleverer than me consider the aerodynamic shape, the wheel spats, the looks and sheer potential. 'Wish we could build it' seems to be the general consensus.

It should be pointed out that this is only a model, albeit a beautifully

### PLAYING GT5

How does the X1 Prototype drive? For now, the only way to answer that question is by getting behind its wheel in *Gran Turismo 5*. Red Bull Racing's Sebastian Vettel (pictured below) already has, and he has been setting some stunning lap times: video on the *GT* website shows him lapping the Nürburgring GP circuit in Imin 4.853sec. The fastest lap in last year's F1 race there was Imin 33.365sec...

We've had a go with GT5, too – even though it isn't expected to go





on sale until early December. An encoded PlayStation 3 was delivered by courier to the **evo** office and we wasted no time in hooking it up to an HD television. There were restrictions — one of which was that we couldn't drive the X1. Nevertheless, the game blew us away with the detail of its graphics. Spin off at Dunsfold (the *Top Gear* test track) and you can actually see the texture of the grass. And, yes, the crash damage is realistic, too...

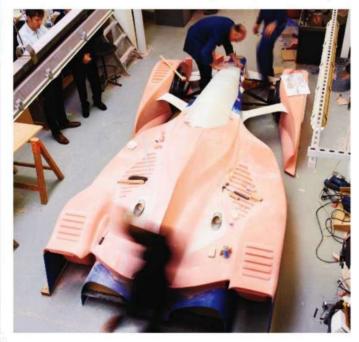
rendered and detailed one (it'll get its first public outing at the game's mid-November launch in Madrid), but a driveable, fully functioning version could be built — the technology is all currently available in F1.

I ask Newey if there is any possibility such a car will be built? 'In reality probably not,' he says, 'because the budget required to do even a simplified version of it would be pretty big, and unless you're going to do the job even halfway properly there's little point in starting it at all.'

On that subject, though, where did the X1 start? 'My initial involvement was the specification and plans. Yamauchi did the first proposal and brought it to the UK. We went through various aspects, made a second evolution and there was a bit of to-ing and fro-ing from there. I remember very clearly that my first sketches were done on a skiing holiday in February, though!'

Newey has clearly enjoyed the freedom afforded to him by the project. 'It's refreshing to turn your mind to something where regulations aren't a factor,' he says, 'because obviously with my day-to-day work, regulations are key to how we design the car, so there's a bit of escapism involved, if you like. The X1 has been fun as a sort of "what if?" project...'

That may be the case, but don't for a minute think that Newey has skimped on detail. The X1 has been designed with the help of Red Bull's CAD software, so the technical specification has been worked out to the nth degree. We know it weighs 615kg with fluids onboard, is 4750mm long and 2180mm wide (an F1 car is only 1800mm wide, which makes the X1 a very tight fit in the transporter) and







## 'THE PERFORMANCE IS NOTHING SHORT OF ASTONISHING. 0-200MPH IN 6.ISEC AND A TOP SPEED OF OVER 280MPH'

less than a metre high.

Contrary to early reports, it doesn't feature a futuristic gas-turbine powerplant, but a 'conventional' F1-derived direct-injection 3-litre V6 with twin turbos, claimed to be good for 1483bhp at 15,000rpm and 526lb ft at 12,000rpm. The resulting performance is nothing short of astonishing, the claims being 0-60mph in 1.4sec, 0-120mph in 2.8sec, and 0-200mph in 6.1sec. Maximum speed is projected as being 'over 280mph'.

Where the X1 steps away from Formula 1 technology is in its active suspension and aerodynamics. The rear-mounted fan sucks air out from

under the car, alone generating a 1000kg of downforce. At 186mph the front wing contributes another 366.7kg, the rear 347.7kg. And that's with the wings in a fixed position. 'It would be very easy for it to have an active wing,' says Newey.

Calculations have shown that lateral loads could top 8G. Just as I'm thinking the tyres would never cope, I read the bit in the technical brief that details tyre load and friction. Like I said, this project has been done properly.

What gets me most is how much sleeker and more fluid the X1 looks than an F1 car. Apparently the front wheel spats improve airflow hugely compared with an F1 car, allowing the bodywork to be smoother. There are parallels to be drawn with the Caparo T1, but the X1 also has clear F1 lineage and, from low angles, hints of Le Mans Prototypes. And insects.

My favourite viewing angle is from overhead, though, tracing the lines that start at each front wheel, curve in along the thick carbon support strut, then get picked up on the other side of the cockpit, following the bodywork round to the rear wheel; the two lines together create an 'X' shape. It looks like a Transformer caught mid-change, arms just popped loose from the body.

One last question for Newey: could

the X1 actually be driven by a human? 'It would be difficult to create an environment whereby the driver could survive those sort of G forces for a race distance rather than a single lap,' he says, 'but a combination of driver training and restraints – particularly for the head and neck – mean it would be possible.' Gamers won't have to worry about such issues, though their thumbs might struggle to keep pace.

It is just a model, but as it sits there in the F1 build area, looking companionably at home alongside Webber and Vettel's weekend steeds, I can't help but feel that the X1 is a sign of things to come.



Left: Ollie looks on as the Red Bull team puts the finishing touches to the X1 model in an F1 build bay. Below: suspension is taken from last year's RB5 F1 car. Right: fan could create 1000kg of downforce by sucking air from beneath the car – the same highly effective concept was used briefly in F1 in the late '70s before being withdrawn (see opposite page)





Though it's usually the case that carefully framed rules and regulations curb the wilder and more radical engineering ideas, motorsport has occasionally allowed flashes of mad genius. Here we celebrate Formula 1's most unusual creations — and other gloriously non-conformist racers.

### **FORMULA 1**

Brabham BT46B, Lotus 88 and Williams FW08D

■ Colin Chapman is credited with bringing 'ground-effect' aerodynamics to F1 in the mid-1970s, but it's Gordon Murray's BT46 'Fan Car' that's remembered for taking the principle to the extreme.

Developing an idea pioneered in Can-Am by Jim Hall of Chaparral fame, Murray used a huge fan to extract air from the engine compartment of the BT46. He claimed the fan's primary role was to cool the flat-12 Alfa Romeo engine, but in truth this function was merely a welcome by-product of sucking air from beneath the car, through the sealed engine bay and out through the rear-mounted fan.

Despite protests from rival teams, the car was declared legal and Niki Lauda took it to victory in the 1978 Swedish Grand Prix. Recognising the rift his car's advantage would cause, team owner Bernie Ecclestone took the decision to then withdraw the BT46B for the good of the sport.

When the FIA moved to restrict ground-effect aerodynamics by raising ride heights, it was fitting that Chapman arrived at the most elegant solution, designing the revolutionary 'twin-chassis' Lotus 88 for the 1981 season. The outer chassis carried the bodywork and had the sole purpose of generating and exerting massive amounts of downforce directly onto the suspension uprights to which it was attached. This allowed the inner chassis - which supported the tub, engine and transmission – to remain isolated from the huge, suspension-compressing aerodynamic downforce exerted by the bodywork, and spared the driver







Above: 910hp Monster Sport SX4 Pikes Peak special. Left: go-kart-sized Shadow Can-Am car from 1970 sported a 740hp 8-litre V8. Bottom left: the huge fan that sucked air from beneath the Brabham BT46B

from the unbearable pummelling
experienced by drivers of conventional
ground-effect cars. Thanks to protests
from rival teams, the Lotus 88 was
declared illegal and never raced.

tests, but ultim
thanks to Marc
The Williams
either, but it to
far enough to

If the quest for downforce has remained a constant in modern F1, the search for better traction has led designers to explore many different concepts. In the 1960s the Ferguson P99, BRM P67, Lotus 63, Matra MS84 and McLaren M9A all explored fourwheel drive, but the increased weight and nose-heavy handling balance rendered them uncompetitive.

However, in the late 1970s and early 1980s, both March and Williams

returned to the idea, combining it with low-drag principles pioneered in another great F1 oddity, the sixwheel Tyrell P34.

With two wheels at the front and four driven wheels at the rear – all of them smaller than conventional F1 rear wheels – the March 2-4-0 of 1976 showed great promise in early

tests, but ultimately came to nought thanks to March's meagre finances. The Williams FW08D never raced

either, but it took the same concept far enough to give the rule-makers sleepless nights. Its pace around Donington Park was sufficient for four-wheel drive and six-wheel designs to be outlawed from Formula 1 from 1983 to this day. Shame.

### CAN-AM Shadow AVS MkI

■ The 1970 Can-Am season epitomised no-rules racing. The Chaparral 2] 'Sucker Car' is the most famous from that year, but the lesser-known Shadow MkI was arguably the more radical. The concept was simple: stick an 8-litre, 740bhp Chevrolet V8 into something as close as possible in size and frontal area to a go-kart. The result is one of the craziest racing cars of all-time.

Using 10in front and 12in rear wheels, the MkI was so low it forced the driver to contort his legs and feet to reach into the footwell, where there was only room for throttle and brake pedals. The clutch was controlled from the steering wheel, pre-dating current F1 practice by four decades.

The low-drag shape gave it 20mph on its nearest rival in a straight line – 190mph versus 170 on the Mosport Raceway's main straight – but the rearbiased 25/75 weight distribution made cornering hairy!

Shadow founder Don Nichols captured the maverick spirit of Can-Am when he said of the MkI, 'If I wanted to be ordinary, I could have bought a McLaren.'

### **PIKES PEAK**

Monster Sport SX4 Hill Climb Special

■ Built to compete in the Unlimited class at the Pikes Peak International Hill Climb, Nobuhiro 'Monster' Tajima's outrageous machine is one of the world's great no-limits racers.

Built around a one-off steel spaceframe chassis and clad in carbonfibre panels that bear only a cartoonish resemblance to a Suzuki SX4 SUV, the car is powered by a midmounted twin-turbo 3-litre V6 boosted to a screaming 910bhp.

Featuring all-wheel drive, two gargantuan venturi tunnels, and festooned with massive wings to claw downforce from the thin mountain air, Tajima's 1100kg ride is an artful collision of explosive rallycross power and traction, Group C downforce and good old-fashioned Japanese lunacy.

A central driving position helps Tajima place the 840bhp-per-ton projectile within millimetres of the mountain's precipitous drops, while a sophisticated management system and those two fat turbos help compensate for the high-altitude power losses. As the Pikes Peak course becomes fully paved, we can look forward to Tajima's creations getting even wilder...

Richard Meaden



IS THIS
YOUR NEXT
SPORTS CAR

COULD MICRO GAS TURBINES - AS SEEN ON JAGUAR'S C-X75 CONCEPT - RÉALLY POWER OUR CARS IN THE FUTURE? **OLLIE MARRIAGE** AND HARRY METCALFE REPORT

car powered by gas turbine engines. A Dan Dare-style 1950s vision of the future or a realistic way forward in 2010, as proposed by Jaguar at the Paris motor show last month with its startling C-X75 concept? To get a better idea of whether this is just fantasy or a potential reality, you first need to understand how a gas turbine works.

The principles are very simple and follow the old four-stroke engine adage: suck, squeeze, bang, blow. However, rather than moving the air with four separate piston strokes, here it's a continual process. Air is sucked in at the front, squeezed and ignited, then blown out the back. In a iet, the exhaust forms the thrust. In other applications, like a power station or a car, the rotation of blades turns the central shaft, which can then be harnessed to a generator or gearbox.

In fact there are two sets of blades. The small rearward fan, spun fast by the hot exhaust gases, is connected to a forward compressor, helping draw more air in, which in turn means more hot air passing through the turbine, spinning it faster and so on.

The history of the gas turbine predates the internal combustion engine, with the first patent awarded in 1791 to power a horseless carriage. Many attempts later, it was Frank Whittle who finally mastered the technology in 1937, and a mere 13 years later Rover had adapted it for automotive use (see opposite). However, despite the efforts of Rover, and later Chrysler and GM, it was quickly discovered that gas turbines

> aren't ideal when directly connected to the wheels. There are a number of reasons why, including a lack of efficiency when operating across a wide rev-band, the response delay between throttle application and acceleration, the obvious heat management problems and issues with gearing turbines spin very fast – around 80,000rpm) and noise.

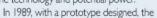
However, recently the advantages of gas turbines have made firms look at the technology again. They can run on pretty much any fuel, have a tremendous power-to-weight ratio, few moving parts, no reciprocating

energy losses or vibrations and are very smooth. If they catch on, their simple design also means they should eventually be cheaper to make than a regular internal combustion engine.

So instead of having a gas turbine drive the wheels, why not let it work as a range-extender to top up the batteries of an electric vehicle? This is Jaguar's idea with the C-X75, which has been developed in conjunction with Bladon Jets. So small are the microturbines developed by Bladon (they weigh just 3kg each yet develop 90bhp) that Jag's designers decided to create a 'jacket' around each of the two fitted

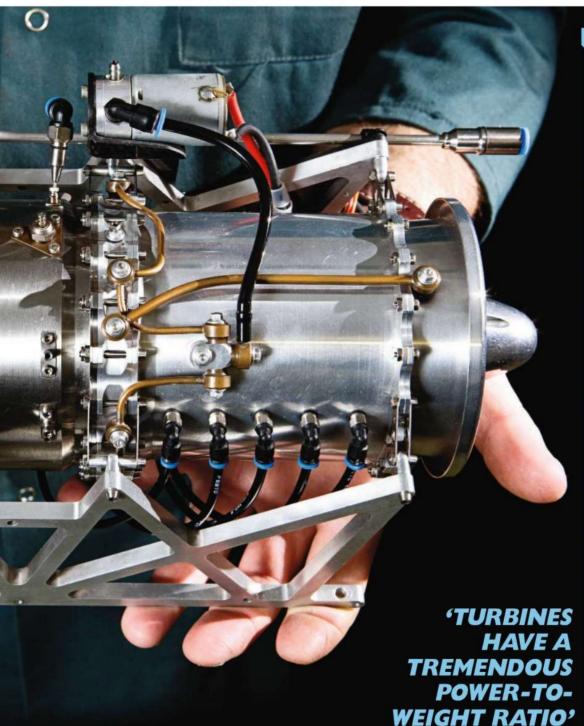
### WHO ARE BLADON JETS?

■ Twin brothers Paul and Chris Bladon (pictured right) were highly regarded in the 1980s for their motorcycle race engine work, but when Paul was recovering in hospital from a crash, he set about designing a micro jet engine, intrigued by the technology and potential power.



Bladons approached Rolls-Royce, who agreed that the design was clever. However, it didn't want to take it any further. That didn't put the brothers off, though, and by 2002 they'd cracked the major stumbling block – how to machine the tiny turbine blades in a single piece. Sadly Paul died in 2008, but he lived long enough to know of Jaguar's interest in the project. HM





### **KEY TURBINE CARS**



### **ROVER JET1 1950**

The world's first gas turbine car, Rover's one-off JET1 hit 87mph during early tests



### LOTUS 56B F1 1971

With 600bhp (rivals had about 425bhp) the 56B raced in three GPs, its best an 8th at Monza



### **TOYOTA SPORT 800 1979**

■ The first ever turbine hybrid, this concept 800 used a turbine to recharge a battery pack



### **GM EV1 1998**

Initially a pure electric car, at the 1998 Detroit show GM put forward a gas turbine proposal



### JAGUAR C-X75 2020?

Jaguar is intending to use gas turbines as range extenders for in-wheel electric motors

to the show car because without them it looked like a couple of hairdryers had been left in the engine bay!

Interestingly, to start the engines Jaguar may use the air suspension pump now fitted to most of its cars. The pump will supply air to a nozzle at the front of each engine, squirting compressed air at the blades and starting the turbine. Fuel will then be injected into the combustion chamber and ignite, causing the engine to spin up to its operating speed of 80,000rpm. Because the turbines are so perfectly balanced, they spin on air bearings (which use a cushion of pressurised

air to eliminate the need for a physical contact between surfaces), meaning no lubrication is required.

Behind the scenes, work at Jaguar's test facility is continuing on the durability of the units. Chris Bladon told evo that the trick of how to couple a gas turbine engine spinning at 80,000rpm to a generator is pretty much sorted now, allowing the project to progress to the next stage and real engine trials to take place. Chris is hopeful he will be driving to the next Paris motor show in a prototype gas turbine-assisted electric car. We're hoping to hitch a ride.

### THE CHRYSLER TURBINE

■ I drove the Chrysler Turbine at no more than 60mph, but to this day it remains one of the most awe-inspiring experiences of my career. Unlike the C-X75, its gas turbine propelled the car through a TorqueFlite



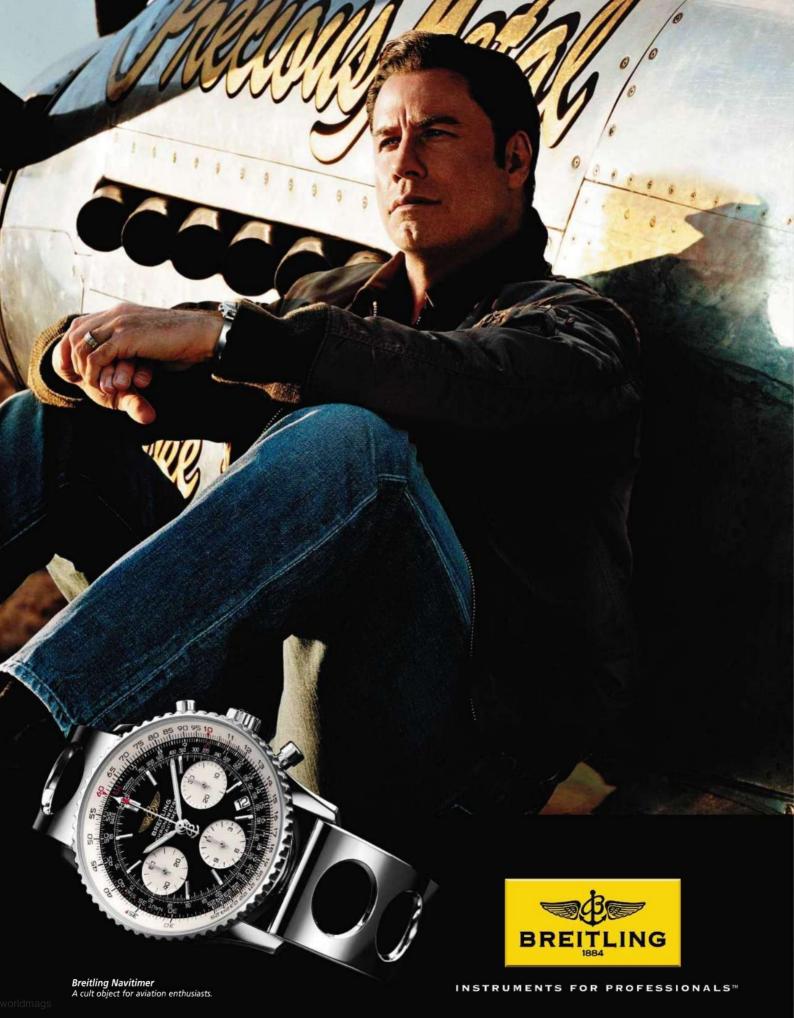
automatic gearbox. The naturally laggy delivery of the turbine combined with the slush 'box dulled throttle response, but to compensate you simply nailed the gas pedal on corner-entry. Counter-intuitive, but you adapted.

Idling at 19,000rpm, the 130bhp Turbine sounded like a taxiing Boeing. Maximum revs was a scarcely believable 44,500rpm. But it worked. It was driveable. Refined. Smooth. Fifty were built and trialled in 1966, but the US government withdrew its support as the turbine was no more fuel-efficient than a V8. It ran on pretty much any 'fuel', though, including tequila and Chanel No. 5. Now that's 'flex-fuel'... **NT** 



### PROFESSION: PILOT CAREER: ACTOR

People are acquainted with the star, the multi-faceted actor. But John Travolta is also a seasoned pilot with more than 6,000 flight hours under his belt, and is certified on eight different aircraft, including the Boeing 747-400 Jumbo Jet. He nurtures a passion for everything that embodies the authentic spirit of aviation. Like Breitling wrist instruments. Founded in 1884, Breitling has shared all the finest hours in aeronautical history. Its chronographs meet the highest standards of precision, sturdiness and functionality, and are all equipped with movements that are chronometer-certified by the COSC (Swiss Official Chronometer Testing Institute). One simply does not become an aviation supplier by chance.





## SSC AIMS FOR 275MPH

### NEW AMERICAN SUPERCAR OUT TO RECLAIM FASTEST PRODUCTION-CAR RECORD

t doesn't yet have a name, but it does have a mission — to be the world's fastest production car. SSC is taking the fight back to the Bugatti Veyron Super Sport with an all-new carbontub supercar to replace its Ultimate Aero model. We won't see the fruits of this project on the road until around March 2012, but SSC, headed by Jerod Shelby (no relation to Carroll), believes it has the design and hardware needed to reclaim the production-car land-speed record.

It was back in September 2007 that SSC bettered the standard Veyron's 253mph max, the Ultimate Aero TT achieving a two-way average of 256.18mph. The record is now back with Molsheim and currently stands at 268mph. Unofficially, SSC is aiming for 275mph, a figure that would seem to have been plucked out of thin air were it not for the tiny firm's proven track record.

The new car's styling is by Jason Castriota, an American who was previously at Pininfarina (where he penned Ferrari's 599) before being made design director at Stile Bertone and setting up his own consultancy. This June he was also announced as Saab's new design director, so it's fair to say he's got a proper CV.

And he's done a stunning job for SSC. Compared with the hunched Veyron, the American supercar looks amazingly sleek. If it also does the numbers and handles well (spokesman Junus Khan told us this is 'something we're going to focus on more this time, although the Aero never gained the recognition it deserved in that area'), SSC could well hit the big time.

Under the skin is a mid-mounted bored-out version of the Ultimate Aero's 6.4-litre Chevy 'small block' V8, now fitted with new overhead camshafts as well as twin turbos. The 6.8-litre unit is said to rev to 9000rpm and is already delivering 1350bhp on the dyno running 91-octane fuel. It'll drive the rear wheels through a conventional manual gearbox, although a paddleshift will be optional.

A key aim of the new car is to reduce weight by at least 150kg compared with the Aero, the target being a 1200kg dry weight and a power-to-weight ratio of around 1000bhp/ton. To that end it will use a carbonfibre monocoque chassis with aluminium subframes at either end, and will be one of the first cars to feature one-piece carbon wheels, each weighing a mere 5.8kg. An electronically actuated aero-brake will aid stops from high speeds, while everyday useability will be enhanced by a front-lift system to help the long nose negotiate speed bumps.

Not only does the new SSC aim to overtake the Veyron, but it will undercut it too, with a list price just shy \$Im (£625K plus taxes in the UK).

Ollie Marriage







## AUDI SET TO JOIN FORMULA 1?

PORSCHE CEO HINTS AT VW GROUP'S MOTORSPORT PLANS. BY NICK TROTT



uch has been said about new Porsche CEO
Matthias Müller's recent comments on a return to F1 for the Stuttgart manufacturer.
I was there when he made them – it was at the Paris show during a low-key chat with the new boss, the day before he officially started his new job.

Did Müller talk about F1? Yes – but in the context of the VW Group and in a response to evo's question about

a return to Le Mans. 'There are two classes and there are two [VW Group] brands in LMP1 – Audi and Porsche,' explained Müller. 'It's not so funny for two brands to compete against each other, so therefore we have to discuss whether it makes sense for one brand to compete in LMP1 and another in Formula 1.'

This can be interpreted either as 'Porsche in shock F1 return' or 'Audi considering F1 graduation'. Which one



makes more sense to you?

Here's how I read it: the VW Group is serious about F1. It has been in top-level discussions with the FIA in relation to the proposed new F1 engine rules and has been pushing for a I.6-litre turbocharged four-cylinder format, of which the VW Group has considerable knowledge.

However, something about a 1.6-litre turbocharged Porsche just doesn't rub, especially when you consider that the new engine rules are likely to be so strict that there will be little room for innovation. Porsche does not go racing in doppelganger formulae.

Volkswagen would enjoy massive marketing benefits from a Formula 1 campaign, but the prestige of F1 dovetails far better with the Audi brand, and Audi already has the structure, team and expertise...

As for VW, NASCAR rumours abound – rumours that should be taken seriously. NASCAR is populist and offers colossal marketing opportunities, albeit in a single but crucial market. And let's not forget that a non-US car manufacturer (Toyota) has already muscled in on NASCAR, paving the way for others. Where does this leave Porsche?

Perhaps the most telling of Müller's comments involved off-road rallying: 'We are successful and we earn money in customer motorsport. We are very keen to foster that business. And maybe there is an opportunity to complete that business case for off-road customer sport. Top of the line is Dakar, and if Volkswagen win the Dakar for the third time next year then maybe there is space for Porsche.'

After that, I'd bet on Porsche lobbying the ACO to allow its hybrid 918 Spyder to enter – and have a shot at winning – the greatest Sportscar race in the world: Le Mans.

### RRIBES



### TURBO S EXHAUSTS

Want to release a bit more potential from your new Porsche 911 Turbo S? Two companies have recently released exhaust kits for the latest 523bhp 997. Cargraphic claims a 25bhp increase with a 50 per cent reduction in back pressure and a 5kg weight reduction for its £3717 offering (above). An equivalent system from highly regarded Akrapovic costs £4278 and although the firm makes no claims about extra power. titanium parts help reduce weight by 8kg.



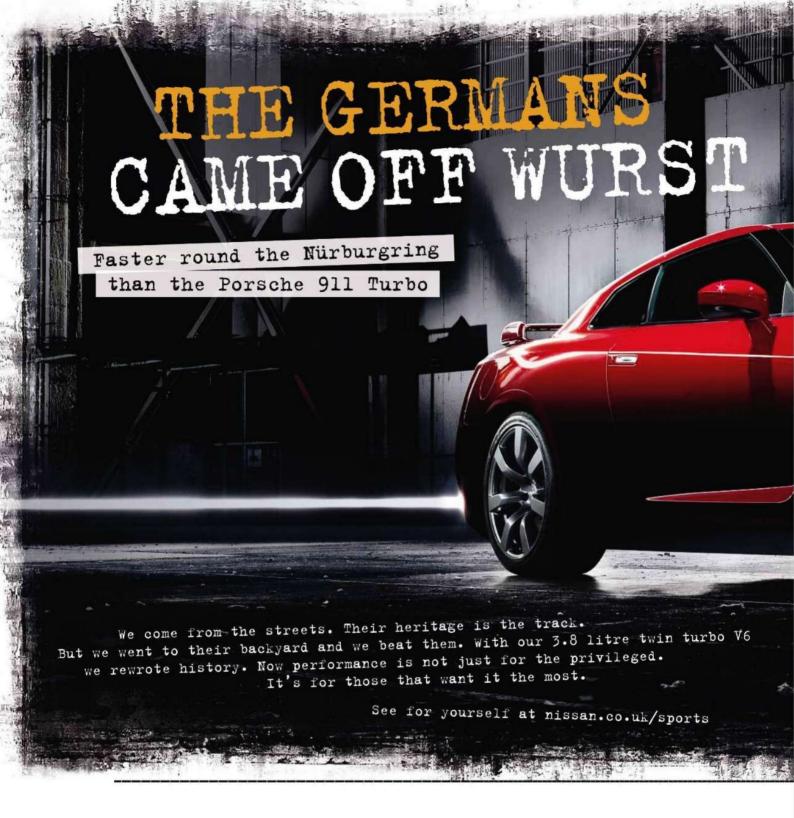
### WIN AUTOSPORT SHOW PASSES

Autosport International 2011 takes place at the Birmingham NEC on January 13 to 16. Not only is it your chance to meet some motorsport legends - both drivers and cars - but you can also see the McLaren MP4-12C supercar in the flesh, too. Adult tickets cost £30 per day, children over five £19.50. Visit autosportinternational.com to buy yours, or head to competitions.evo.co.uk for the chance to win a pair of platinum passes. Good luck!



### RACE A MAZDA MX-5

Fancy a season racing a Mazda MX-5? You could be in luck. Blendini Motorsport is looking to fully fund someone through the 2011 Ma5da Racing Championship, with race entry fees paid and full mechanical support and advice. It's a fantastic prize worth over £25,000, and it's open to both novices and the experienced. A three-round scholarship will decide the winner, and you can register to take part at www.mazdascholarship.com



## NISSAN GT-R FROM £59,945





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# THE END OF THE TOP SPEED WARS?

COULD TODAY'S BATCH OF 200MPH-PLUS SUPERCARS BE THE LAST TO AIM FOR SUCH MASSIVE SPEEDS? EVO INVESTIGATES

peed thrills, on paper at least. From Top Trumps to showroom brochures, top speed has always taken pride of place amongst the performance statistics. The problem is that top speed is becoming almost entirely academic, and engineering new cars to achieve ever higher velocities can cause compromises in other areas, sometimes at the expense of driving enjoyment.

An extraordinary amount of effort goes into making these rarely achieved speeds technically possible. Air turns out to be very thick stuff: at 200mph the average supercar has to push over a quarter of a ton of air out of the way every second. In fact the amount of power needed goes up with the cube of speed, or in plain English, if you double a car's speed you need eight times the power. That's why most cars with around 100bhp can do about 120mph, but to reach 240mph that same car would need 800bhp.

But now, for the first time, we're hearing whispers that manufacturers might be diverting efforts away from maximising top speeds. At the moment Lamborghini is the only company to put its head above the parapet (see below), but an industry insider who didn't want to be named told us, 'if we



Seven shows the benefits of light weight

didn't have to always aim for 200mph, we would be able to put more into other areas – for example, optimising acceleration and handling'.

Weight would be an early beneficiary of this strategy. A 600bhp engine needs large radiators, extra coolant, intercoolers, hefty transmissions and sizeable fuel tanks. All of these add extra kilos, which compromise handling. Think how thoroughly involving a Caterham is with its light weight, low power and short gearing. Now imagine if other companies were to adopt a similar approach; lose the high speed addenda and reap the handling rewards, maybe fit shorter gearing for snappier acceleration.

It's not straightforward of course.

Long gearing means quieter cruising, and as **evo** contributor John Simister points out, 'long gearing is often fitted to modern cars in a quest to reduce emissions and ironically the by-product of that is a high top speed'. Maybe the answer is to bring back the overdrive...

Porsche has long taken a rational approach to performance. Under the banner of 'Pure Performance', its current mission statement reads: 'Porsche stands for dynamism, agility and flexibility; as well as speed, elegance and safety.' Top speed is clearly a secondary consideration. Bugatti has a slightly different take, as we found out from Dr Stefan Brungs, marketing and sales director: 'Velocity has always fascinated mankind... so of course it is a USP for Bugatti to have the fastest car in the world.'

A curb on top speeds could yet come from another direction. To the wider public, speed often has negative connotations, and there has to be a possibility that politicians could legislate for compulsory speed limiters. After all, cars have to comply with emissions, lighting, safety and construction laws and regulations; why not speed? Car companies are walking a tightrope, balancing the opportunity of gaining sales by pushing higher top speeds against the threat of provoking a draconian regulatory response.

No-one has yet been brave enough to say their next car will be slower than the one it replaces (their marketing teams might have something to say about that), but the fact that car firms are starting to think this way could signal the start of a revolution.

## **uto** mi

### IS TOP SPEED STILL IMPORTANT?

### ■ YES: SSC

Top speed matters from an engineering and design standpoint because it's the most difficult performance specification to meet,' says Jerod Shelby, founder of American supercar maker SSC, whose Ultimate Aero



### ■ NO: Lamborghini

'Until a few years ago our priorities were in this order — top speed, acceleration and then handling,' explains Lamborghini CEO Stephan Winkelmann. 'In recent years this has been changing, Handling and acceleration

are becoming more important. Top speed is not as important anymore, because all supercars are able to exceed 300kph [186 mph] and this is a speed that you cannot reach on a racetrack, let alone normal roads. The key factor in terms of better handling and acceleration, meaning more immediate pleasure in driving, is the power-to-weight ratio. This is not so much about top speed, so the future will not be so focused on increasing power. The key is in reducing weight.'

'IF WE DIDN'T HAVE TO AIM FOR 200MPH WE COULD PUT MORE EFFORT INTO HANDLING AND ACCELERATION'





# JOST CAPITO

## THE HEAD OF FAST FORDS ON THE DEVELOPMENT OF THE NEXT-GENERATION FOCUS ST

s the director of Ford's global performance vehicles division, Jost Capito is the man ultimately responsible for the worldwide success of the next Focus ST. We caught up with him at the Paris motor show to find out more about that car, why he loves British B-roads and what happened to his evo subscription...

### How long have you been working on the new ST?

Twelve months so far, and we haven't really started doing any driving yet! First you have the design, then the financials and the market equation and what you change from the standard car, where you need new tools, and what they cost. It's a long list. So we have a year of paperwork and then 18 months of more enjoyable work.

Where do you do your testing?

Lommel [Ford's Belgian test centre] is our baseline, where we know every car inside and out, but we do lots of real-world driving. We use the Nürburgring a lot, because what is good on the Ring is good everywhere. But we also drive on British B-roads a lot, and in Wales. We know 50 per cent of European customers are in the UK and the B-roads are fun in the UK, so it's important to do testing there. But we

also test in Michigan, which has roads like the UK – wider, but still fun.

### You'll test the ST in America?

Yes, it will be sold there in exactly the same tune as the European model, so we need to make sure it works in every market. Europe will take the lead, though, but the two departments, Team RS in Europe and SVT in America, have been more closely integrated for the last year, so they'll work together.

'WE DRIVE 911s
AND 3-SERIES
BMWs AND
ASK WHAT
MAKES THEM
DESIRABLE'

Will the new four-cylinder engine sound as good as the five?

It will sound different, but it will sound as exciting. We don't need the refinement of the base engine [the 2-litre EcoBoost that is already fitted in the Mondeo and S-Max], so we can accept a little NVH [noise, vibration and harshness] and develop it to add more character.



## But aren't CO2 emissions of primary importance?

They're important, but not the biggest. What we are looking for and what we spent a huge amount of time on is performance feel — so it's engine response, power, how the acceleration and deceleration is. We see a lot of turbo petrols trying to get the character of diesel with low-rev boost then constant torque, and we do not believe that gives you the exciting performance feel you want to have. It must be rewarding to rev, although you should be able to have fun with it at lower revs, too.

### What's the biggest challenge you face?

To get it exactly right as we did with the last ST, with all the attributes at the same level, and then convincing the marketing people in each region that the same car is the right one for them.

### Do you drive rival products?

The Golf GTI, of course, and now the Mégane 250, but we have to future-proof our car, so we try to define our own philosophy for it and not just target a competitor, so we also take other vehicles. We drive 911s, we drive 3-series BMWs and ask what makes them desirable. It's not just because they're more expensive. You can do things right in cheaper cars and make them as much fun.

### Will there be a three-door ST?

No, and I don't think we will miss it. Some people say, 'Oh, sales volumes will be lower because you don't have a three-door.' I don't think so because the car looks so sporty and there's no disadvantage in having five doors. It's more practical and I hate the long doors – you can't get out properly.

### Thanks, Jost.

No problem. Can you sort out my subscription? I haven't seen evo since I moved to America.









Above: Capito at the Paris motor show. Left: new Focus ST is due in 2012; despite a reduced cylinder count, power will rise to 247bhp







The new Galaxy Tab is perfectly sized for life on the go. With a 7" touchscreen, it's small enough to fit in your hand, yet big enough to be packed with incredible entertainment and communication features. Using the Android 2.2 operating system, it offers voice and video calling, a Readers Hub full of up-to-date newspapers, magazines and eBooks, plus access to blockbusters and classics on Samsung Movies. The Galaxy Tab supports Adobe\* Flash\* Player and comes with free Google Maps™ Navigation, awesome games and an ingenious integrated phonebook that combines all your social network contacts. Start living life without limits.

www.samsung.com/uk/galaxytab



## Shunt: The story of James Hunt

Price: £17.50

From: www.amazon.co.uk

There will never be another F1 champion like James Hunt, and at over 700 pages it's unlikely there will ever be a more detailed biography of his short but action-packed life. Playboy, international-standard squash player, budgie breeder, recreational drug user, commentator, Hunt was a man of many parts – Tom Rubython covers them all

### Ciclotte

Price: £6800 From: www.ciclotte.com

Have you guessed what it is yet? Made in Italy and featuring a steel and carbonfibre frame plus a touchscreen control panel, the Ciclotte is in fact an exercise bike, but one that, while being perfectly functional, can be admired for its design too

## I:24 scale Back to the Future DeLorean

Price: £21.95

From: www.caagis.com

How time flies – and not just when you've got a time machine. It's been 25 years since the first *Back to the Future* movie was released, so why not celebrate with this 1:24-scale model of Doc Brown's flux capacitor-equipped DeLorean (plutonium not included)

## **EVO ESSENTIALS**

AMONGST OUR MUST-HAVE STUFF THIS MONTH: A 911 GAMING WHEEL AND A DELOREAN TIME MACHINE

## Dura Fitted Garage

Price: packages from £2941 From: www.duragarages.com

Used by some of the world's largest sports car manufacturers, the Dura Fitted Garage is a modular cabinet system that provides secure storage for all the tools and equipment that would otherwise clutter up the space where your car should live. The heavyduty steel cabinets are available in combination packages or as individual units, so you can create the perfect set-up to transform your garage

### Fanatec 911 GT3 RS wheel

Price: from £156 From: www.fanatec.de

If you're planning to spend every spare moment of the next few months playing *Gran Turismo 5*, then this is the wheel you'll want in your hands. Modelled on the one from the 911 GT3 RS, this fully licensed controller features an Alcantara rim, force feedback and ABS vibration. Optional accessories include an aluminium pedal set and carbonfibre 'ClubSport' paddles





Signature piece

LIMITED-RUN STIRLING MOSS WATCH IS SIGNED BY THE LEGEND HIMSELF. SIMON DE BURTON REPORTS

### Legends in Time 'Stirling Moss 80'

Price: £2695 From: www.legendsintime.co.uk

Peter Ratcliffe established his 'Legends in Time' company more than 20 years ago and is now the world's leading dealer in limited-edition F1 lithographs. The business has brought him into contact with a number of motorsport greats, including Sir Stirling Moss, whose 80th birthday this year is commemorated by the first Legends in Time wristwatch. Ratcliffe will produce 160 examples of the Stirling Moss 80, half with white dials and half with black. Each dial is



personally signed by Sir Stirling and the watches are delivered in a signed and numbered box. The stainless steel case contains the tried and tested Valjoux 7750 chronograph movement (as used by TAG Heuer, IWC, Breitling, et al) and every SM 80 is supplied with three leather straps – black, tan and brown.

### Stefan Johansson Mark VIII C 009

Price: c£6000

From: www.sjwatch.net

Students of 1980s GP racing will remember Stefan Johansson as the man who achieved a record number of 12 F1 podium places for teams including Tyrrell, Ferrari and McLaren without securing a single victory. He's since been a successful Sportscar driver, established a CART team and managed several top racers, including Indy Racing League legend Scott Dixon. As if that wasn't enough, the artistic Johansson also designs and makes watches under his own eponymous dial name. They all use Valjoux 7750 chronograph movements (just like the SM 80) and feature the same 47mm steel case with a choice of dial designs. Each style is limited to 250 pieces and the watches are supplied in an oak automatic winding box. Johansson and other professional drivers test the watches by the simple method of wearing them while racing. The California-based firm has no retail outlets so orders must be placed via the website.





Bunningungangangangan so

## Hublot King Power F1 Monza

Price: £18,500 From: www.timeproducts.co.uk

Hublot is now the 'official' watch brand of Formula 1, and this is the first in what is expected to be a whole series of F1-inspired watches from the company. With a hefty 48mm case, the Monza is suitably replete with automotive imagery: check out the vented disc-style bezel, the 'start' button for the chronograph and the strap that is made from flame-retardant Nomex... and, er, not so flame-retardant rubber. The Monza's pièce de résistance, however, is its sapphire crystal. It's difficult to tell from the image, but the glass is tinted red, allegedly a horological first. Just 200 Monzas will be made, which should add a useful £3.7million to Hublot's coffers. Who said F1 is getting too commercial?

On average, people only look at an advertisement for 2.6 seconds.

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## Michelin and its partners have won the Le Mans Series championship for the 7th time in a row!\*

Once again, MICHELIN tyres demonstrated a superior performance in longevity and grip. Congratulations to the winners.

Visit www.lemanslive.com for exclusive racing news, photos and videos.





# Petrolhead

## Richard Porter

A littered car interior will spoil your enjoyment of driving, reckons the Top Gear TV script editor. And your friends won't be impressed, either



# y friend Zog is a clever bloke. From analogue synthesizers to the way outer space works, there's very little that he doesn't know about nor cannot talk about in an

informed and intelligent way, delighting in the expansion of knowledge in the manner of Stephen Fry on QI.

Every couple of weeks or so, Zog and I go round to our mate Gareth's house to record a car-based podcast, and if you've ever heard our audio blatherings you'll know what I mean about Zog. Whilst Gareth and I get distracted doing crass impressions of German racing drivers and making weak puns based around obscure car names, Zog remains the quietly thoughtful, cerebral one who imbues proceedings with some intelligence and dignity.

It was therefore quite a surprise when Zog turned up the other day announcing that he'd cleaned out the interior of his lovely old Porsche 944 Turbo and that, for our amusement, he had written down all the stuff he'd found within its nicely aged interior. It was, frankly, extraordinary. Broken tyre pressure gauges, knackered sunglasses and two A-Zs of London with all of north and west London

## 'HOW CAN YOU ENJOY DRIVING WITH SIX KILOS OF CHOCOLATE BAR WRAPPERS IN YOUR FOOTWELLS?'

missing – I can understand such things finding their way into a car and staying there for some time. But these were the mere tip of a rather substantial iceberg of crap that included a single ski glove, a third of a packet of pasta shapes, a set of dinosaur stickers, an out-of-date pot of strawberry yoghurt, two flyers for a London fetish club, a British Sausage Council promotional watch, four months' worth of bank statements and a kebab.

Gareth and I were so staggered by the sheer quantity of junk in the Porsche that we decided it would be amusing to have Zog read his list of it into a microphone and then set it against some woozy ambient music. The only thing is, much though the vast volume of shit in his 944 was quite funny, it was also rather troubling. Why would a highly intelligent man allow his car to get into such a state?

I suspect that he's not alone either. I once worked with another clever bloke who'd managed to fill the passenger footwell of his Alfa with assorted wrappers to such an extent that when you got a lift from him and were forced to sink your feet into

this crinkly mire you were suddenly reminded of that bit in the original Star Wars film when the heroes are trapped in a massive garbage-compactor. It seemed only a matter of time until you felt something with teeth hooking onto your ankle.

There's a troubling theme here too. Porsche 944? Alfa Romeo? These are cars bought by people who enjoy driving. But how can you enjoy driving when there are six kilos of chocolate bar wrappers and several parts of a broken mangle slithering around your footwells? I'd say that, quite simply, you can't. Driving with any gusto on an exciting road is no fun if there are random objects cannoning around the cabin, taking chunks out of your interior trim. No one wants to feel the Gs building, the tyres biting and the chassis working if, in the back of their mind, they've suddenly remembered there's a bottle of cheap Rioja and a jar of formaldehyde containing a mutated Victorian toad somewhere within the rear footwells just waiting to crack open and make your car smell like a dead wino's undercrackers.

Besides which, you can never

entirely rule out the possibility that at some point you might have to give someone else a lift. And if the interior is packed full of random and unsavoury cack, it feels rather like a discourtesy to anyone who happens to get into your car. If you went round to someone's house and found the floor covered in crisp packets, broken CD cases, coat hangers, half-eaten pasties and a framed photograph of Angela Lansbury, you'd probably think they'd lost their marbles. Oh no wait, there they are, hiding under that old pizza box and the pile of newspapers from 2008. But if it was someone's house at least you could make a hasty decision not to sit down. Or touch anything. In a car you're basically forced to do both, and if doing so makes you reflect on the last time you got a tetanus jab then something is amiss.

There's nothing wrong with being a bit messy, and I know because I am, but your car is a confined space and one that's subject to lateral G forces. Ergo, it's in your own interest to keep it clutter-free, especially if you're a clever bloke like my friend Zog. I mean, seriously? A kebab?



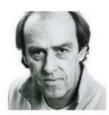
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## The Insider

## Harry Metcalfe

Car manufacturers want us to believe that electric vehicles are the future, but Metcalfe sees them as a huge step backwards



ne of the lasting impressions from the Paris motor show was how you couldn't move without tripping over the brightly coloured cables feeding sparks to all the electric cars on display this year. Electric vehicles, or EVs, were everywhere, and, like it or not, today's motor industry is obsessed with these devices.

Yet having lived with a couple of EVs recently, I'm not convinced they are the answer to anything. Every time I attend a press conference attempting to brainwash me with all the benefits of an EV, I can't help but be reminded of when my mum used to tell me: 'Eat your greens – they're good for you.'

With this in mind, I see the Tesla as the asparagus of the electric-car showroom – green but tasty, if quite pricey. The Nissan Leaf, however, must be the Brussels sprout of the EV world. For a start, it's not exactly pretty. Despite Nissan's designers having a fabulous opportunity to show us what they could do with a clean-sheet design, they bottled it and created something with all the charisma of over-boiled cabbage. But it's not just the looks

## 'NISSAN IS TRYING TO SELL US A CAR THAT CAN'T TRAVEL AS FAR IN A DAY AS A HORSE'

that are so disappointing; it also has a ridiculous £28,000 list price, and I really can't fathom what exactly it offers customers for all this money.

Manufacturers hate it when journalists mention the words 'range anxiety', but I can assure you it's all you think about when you first try living with an all-electric car. You soon get into a routine of not choosing the EV for long journeys. But - hang on a minute shouldn't any new technology improve on what went before? Not where electric cars are concerned, apparently. Nissan promises us that the Leaf can cover 100 miles on a single charge, but BMW promised me the same from its Mini E and the most I ever saw was 70 miles - as long as I didn't use the lights, heater or radio. I'm hearing the Leaf is no different, which is very disappointing.

Now, come on. Seventy miles in a day is the sort of distance we've been able to travel on horseback for centuries; then cars arrived and by the 1920s the Bentley Boys were blasting from London down to Monaco to catch last

orders at the casino. Yet, 90 years on, Nissan is trying to sell us a car that can't travel as far in a day as a horse. I don't call that progress.

Nissan will immediately retort that this limited range is enough to cover 90 per cent of journeys, but what about that other 10 per cent? Who fancies phoning granny and telling her that because she lives 100 miles away you will no longer be visiting her as you've just bought a Nissan Leaf and, while it's jolly economical, it can't travel that far without a lengthy recharge?

Cars are meant to offer us freedom, not restrain us on a 70-mile leash. I love the fact that I can drive a combustion-engined car out of my garage and it doesn't matter if I'm going to the local shops or to Sant'Agata, it'll take me there. It's my choice, not the car's.

So why is the industry trying to convince us to go electric? Well, it's those pesky emissions regulations again, and the EV is a bit like McLaren's F-duct – a neat but perfectly legal 'cheat'. An EV has zero tailpipe emissions, and the

rules allow manufacturers to count any zero-emission vehicle as 3.5 cars in terms of fleet-average CO2. Hey presto, lots of EVs appear.

But there is one type of EV that might just have a future, and that is those fitted with 'range extender' technology, i.e. some sort of motor to recharge the batteries. Suddenly, visiting granny is back on the agenda as range is no longer an issue. Range-extender EVs shouldn't cost that much more than plug-in-only ones either, because generators are cheaper than batteries, and the on-board battery can be much smaller (and therefore cheaper). The battery should last longer too, as the generator will keep it in optimum condition.

Even so, unless governments tax conventionally powered cars into oblivion, most engineers secretly admit EVs will occupy only a niche part of the market, simply because they don't offer customers enough advantages to outweigh their obvious disadvantages. So it's a case of nice try mum, but I'll carry on eating what I want, thanks.

## THE NEW QUATRAC 3 SUV



## QUATRAC 3 SEE

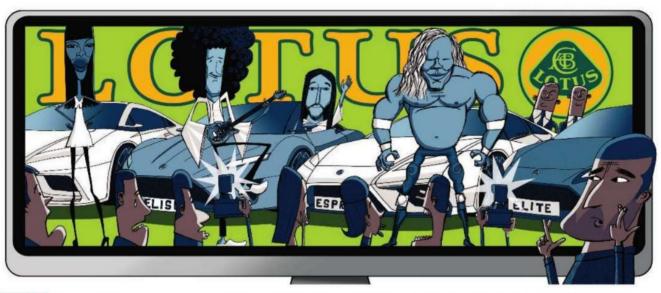
OUTSTANDING ALL-SEASON SUV TYRE. PERFECT GRIP AND EXCELLENT
SELF-CLEANING PROPERTIES. COMPROMISE BETWEEN SUSTAINABILITY AND
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# Crossed Up

Although he loves Lotus as much as the next petrolhead, Harris is struggling to get his head around the company's new direction



o be a geographically detached observer of Lotus's Paris motor show announcements was a strange experience. I found myself glued to my laptop, scouring websites and hungrily consuming Twitter feeds for the most outspoken reactions. Of course Mr Porter's 'Sniff Petrol' feed was by far the most amusing, but even with his unparalleled skills in simile, metaphor and overall absurdity, the sense of bewilderment appears to have been underplayed.

This was undoubtedly the most exciting (and baffling) press briefing I have ever had the misfortune of missing. I don't know a single person who watched it live and didn't walk away wondering if they'd just witnessed the most perfectly choreographed motorshow practical joke since the Rinspeed Advantage R One.

Judging Lotus is problematic, though. Like just about every other UK-based car journo, I am an ardent Lotus fan – someone who has owned and run both an Elise and an Exige and, whether I like it or not, someone who must accept that Lotus's production-car strategy for the past decade has been a commercial disaster. It doesn't matter that people like me think an Elise steers and rides like the Messiah if people don't buy

## 'I DON'T KNOW ANYONE WHO DIDN'T WONDER IF LOTUS'S PARIS UNVEILINGS WERE A PRACTICAL JOKE'

the bloody things. If Lotus Engineering wasn't kept as busy as it is by most mainstream car makers' inability to produce decent motors without the help of 20 freelance blokes from Norfolk, the whole caboodle would have been flushed down the potty years ago. Lotus Engineering makes money, Lotus Cars pisses it away on yet another Elise paint job.

So people like me have to accept that Lotus needed to change. It needs to be taken seriously at more profitable price-points to make commercial sense, but even accounting for this, the five concepts shown at Paris don't appear to represent an evolution of the Lotus ethos but the complete annihilation of the brand's core DNA.

Even if it is entirely possible to concede that a new direction was needed, it is difficult to agree with the new strategy in terms of model positioning, communication policy and timing. It might even have been possible to forgive the bizarre sight of Mickey Rourke, Naomi Campbell and Brian May unveiling the new cars if it ushered in some real cleverness, but I'm struggling to find any.

Let's face it, Lotus had the chance to finally make something of its lightweight philosophy. It's hard to find any consensus of opinion on the correct, profitable future of the motor car, but one thing everyone appears to agree on is that cars will need to be lighter in the future. No one understands the subject of lightweight like Lotus. Yet in moving upmarket to take on the Boxster, the 2013 Elise will gain more than 225kg. Give me strength.

The four-door thing? Nonsense. The DB9 rival? Just ask Aston how easy it is to make money in that little niche-ette. The 911-beater? A book could be written about all those who have tried and failed. The strategic heads at Lotus have decided to target existing classes with existing thinking, and that is either lazy or foolhardy.

But that probably doesn't make enough allowance for the relationship that I – and most other commentators – have with Lotus. We love the people, especially the engineers, to the point that it clouds judgement. How the Evora won so many plaudits last year is completely beyond me. My summary? Great chassis and steering,

shoddy quality and gearchange, average everything else. You don't beat Porsche with cars like the Evora.

I suppose what I find impossible to reconcile is my current knowledge of Lotus and what it wants to become. My Lotus is small and talented, underfunded and perpetually troubled. There is, or was, no better demonstration of the difference between Lotus and any other car maker than the 2001 Autobytel Elise Championship on the TOCA tour. Forget the racing and the politics - of which there was plenty - and know this: every mechanic and driver, me included, was called Ted. You could ask to be called anything, so long as it was Ted. The genuine amusement with which we all joined in the game was underscored, certainly on my part, with the certainty that no other car company was capable of such insanity. I loved them for it. In fact I still do.

Can the new directon work? Anything's possible, but this looks like the longest shot since the last Lotusderived expansion plan: the DeLorean. Like you, I'm watching with a sense of befuddlement and fascination, with every finger and toe crossed.

	DRIVE	10
	O AUDI R8 GT	P40
	BMW 1-SERIES M COUPE	P44
	SUBARU WRX STI	P50
	OAC SCHNITZER ACS4	P52
	LOTUS EVORA S	P54
	FORD C-MAX	P56
Are.	CITROËN DS3 99G	P56
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## **AUDI R8 GT**

■ FASTEST EVER ROAD-GOING AUDI ■ 100KG WEIGHT REDUCTION ■ POWER

UP BY 34BHP ■ OPTIONAL 'RACE' PACKAGE



e haven't got long with the R8 GT and I seem to be having one of those Wednesday mornings. Every road in Oxfordshire that I try seems to be choked with

slow-moving vehicles intent on holding me up every time we reach a perfect set of bends. Even the local hunt conspires against me at one point, and I thought they only played 'catch the brush' at the weekends. Obviously I can dispatch whole lines of traffic and buy myself some clear tarmac as soon as any sort of straight appears, but it never seems to be more than 60 seconds before I find myself staring at the rear doors of another trundling Ocado van.

And then, during one of my few unshackled minute waltzes with the GT, I glance at the speedo. It's numbered for kph so I hadn't really been paying much attention because all the numbers are big when they're in Ks and not Ms per hour. But after a bit of bead-clacking on the mental abacus it dawns on me that the numbers

### SPECIFICATION

Engine VIO, 5204cc CO2 323g/km Power 552bhp @ 8000rpm Torque 398lb ft @ 6500rpm 0-62mph 3.6sec (claimed) Top speed 199mph (claimed) Price £142,585 On sale Sold out

would still be uncomfortably big if this was a UK-calibrated speedo. It sends a slight shiver down my spine and I slow down. Yes, those sorts of big numbers.

In keeping with the theme of the issue, this is the fastest ever road-going Audi, with a top speed of 199mph (almost but not quite stealing Lamborghini's thunder). It's pretty damn brisk off the line too, hitting 62mph in a claimed 3.6sec, some 0.3sec quicker than a standard R8 V10. The improvements are down to the GT's slightly stronger engine and the serious diet plan it has been subject to. Power is up by 34bhp and torque by 7lb ft, but it's the weight savings that Audi is really keen to shout about. Bucket seats make the biggest contribution, saving 31.5kg, but lightweight carpets (yes, really) cut 7.9kg



## DRIVEN









Above: door mirrors and rear diffuser are amongst the new carbonfibre exterior components. Below: interior battery cut-out switch (part of the 'Race' package) is hidden inside a pot in the centre-console cup holder



and thinner windscreen glass 9kg, while the carbonfibre bonnet, bumpers and side-blades remove 6.6kg, 5.2kg and 1.2kg respectively. The total weight loss is a very handy 100kg.

The first thing you notice when driving the GT, however, is not the weight savings but the suspension changes. No, that's a lie actually. The first thing you notice is the steering wheel covered in Alcantara so soft that if you were a child you'd want to use it as a comfort blanket. Then the second thing you notice, if you paid for it, is the optional Race package, because it furnishes the bucket seats with four-point harnesses that need to be gathered and clicked together above your navel. The pack also includes a half roll-cage behind the seats, a fire extinguisher and internal and external battery cut-out switches (the internal one delightfully hidden in a pot in a cup-holder).

Anyway, perhaps the third or fourth thing you notice is that the new coilover suspension is noticeably firmer. You now feel every lump, bump and pimple, but with the edges rounded off so that it's never a harsh or crashy sensation, which is impressive. The only time it really struggles is if you hit larger imperfections at speed, when the reduced travel and stiffer set-up can leave you momentarily in less contact with the road and more acutely aware of the midengined weight balance than you would ideally like. On the other hand, the GT is undoubtedly slightly fleeter of foot than a regular R8 V10, and I have no doubt that it would be quicker around any given circuit.

Further optimising those lap times is the R-tronic automated manual gearbox, the only transmission option on the 333 GTs being built. It seems slightly strange having a single rather than a dual-clutch gearbox in an Audi, but it works well. Like all such systems, it needs a slight lift of the throttle to smooth the shifts when you're not in maximum-attack mode, but judging this just right can actually be quite enjoyable and (no pun intended) engaging.

But the truth is you miss the brilliant opengate manual. It has been such an integral part of the enjoyment of all the R8s we've driven and it seems wrong that what should be the most involving R8 of them all requires you to do no more than squeeze two buttons shaped like little paddles on the back of the steering wheel to change gear.

Which brings me back to my rapidly slowing (thanks to the eye-popping optional carbonceramic brakes) journey across the Oxfordshire countryside. I think the reason I found myself going so fast was that I was chasing that moment when I hoped the R8 GT would come alive, show me its teeth and wow me. I'd tried pressing the Sport button but that hadn't done much, so going faster was the only option. The GT certainly looks the part with its carbonfibre addenda but, at everyday speeds, firmer ride aside, you could be driving any other R8. The steering isn't brimming with noticeably more feel, the V10 doesn't have any added menace or bark, and with R-tronic there's not even much point in going up and down the gearbox just



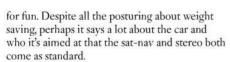


This column, from above: fire extinguisher in the passenger footwell; carbon winglets are a new addition; exterior battery cut-out switch at base of windscreen; red calipers indicate optional carbon-ceramic discs









It is still a stunning car. The pace from that V10 is incredibly addictive and the clinical way the chassis allows you to dissect a corner is utterly absorbing. What's more, I love the way that the quattro four-wheel drive gives you a feeling of security yet allows you all the adjustability and, space permitting, oversteer you could want. But the standard car really already gives you all

of that and I was hoping that the GT would be noticeably different to a standard R8 in the same way that a GT3 is noticeably more thrilling and edgy than a standard 911. Instead it has become faster and firmer, but no more involving. A great car but perhaps a missed opportunity.

Henry Catchpole

## **EVO** RATING

- Everything we love about the regular R8
- Not as hardcore as we were hoping for









#### **SPECIFICATION**

Engine In-line 6-cyl, 2979cc, twin-turbo CO2 n/a Power 340bhp (est) Torque 330lb ft (est) 0-62mph 5.0sec (est) Top speed I55mph (limited) Price c£40,000 (est) On sale Spring 2011



here isn't another car I want to be my everyday companion in 2011 as much as a new 1-series M Coupe. The car I drove wasn't the finished item, the pricing has yet to be

fixed (expect around £40,000), and there are a few areas of criticism, but overall nothing that stops me badly wanting one of these things. Indeed, the reaction I felt quite strongly after a brief 15-minute drive was one of need as opposed to simple appraisal: I didn't come away immediately placing the car against its peers – I shut the door, looked at the almost cartoonish rear-axle width, recalled the performance and thought: that's a bit of me, that is. I'm not sure I ever felt that way about my E92 M3.

First, we'll expunge a couple of silly rumours. No, this car will not be built in limited numbers, and yes, it will be available in the US. We also now know that it uses a version of the familiar 3-litre twin-turbo straight-six. BMW is being deliberately, some might say unnecessarily coy about the final specification, but then there's probably some truth in project chief Christoph Simieskol's explanation that the final state of tune has yet to be set. In terms of power, he reckons around 340bhp and a little more torque than the 135i. There are larger turbochargers, but the majority of changes are calibration work. BMW knows that if this car is to be accepted as a proper M machine, it must have the throttle response and appetite for revs that characterises such models.

Does it look like an M car? Undoubtedly. In fact it has the best stance – and by stance I mean the brilliantly resolved relationship between wheel, wheelarch, camber, rideheight and track-width that defines a proper M car - of anything the company has produced since the E46 CSL, which is fitting because the wheels are the same. The pictures simply don't to it justice; in the raw, the rear of this car is plain rude. To accommodate the E92 M3's rear axle, it is now 80mm wider across the hips. It never fails to amaze me just how positive an impact added width and reduced ride-height can have on a shape: this car now has undeniable, decidedly aggressive appeal.

Inside, this car isn't representative of the final interior. We'll get different clock faces, the obligatory illuminated gearknob and, hopefully, a different set of front seats to the standard 135i. This looks unlikely to be a lavishly equipped cabin, or one that brings us new levels of M-titillation, but if that keeps the cost down, then it's an attitude that should be applauded.

It doesn't make much noise on start-up. You push the familiar button and the twin-

## DRIVEN









This is a development car, hence the camouflage paint and blanked badges. Interior (right) isn't finished either. However, the mechanical package, including an uprated version of the twin-turbo straight-six (left) good for around 340bhp, the manual gearbox and rear suspension and M-diff from the current M3, feels great. A spiritual successor to the E30 M3 (far right)? Perhaps

turbo six fires with a suggestive blurt, but from the moment that first soupçon of unleaded ignites, you fear that the muffling effects of forced induction may cloud your overall judgement of the car. For me, it is not impossible for a turbocharged M car to be the real deal – excluding the X6M and X5M, which are both reprehensible buckets of slurry. But the electric rasp of induction noise that floods through the dashboard in an M3 or an M5 is notable for its absence here.

Engine idling, you prod the throttle a few millimetres just to see how much sharpness they've managed to build into the car. This is one of the key differences between an M3 and a 335i: despite there being no mechanical connection between the accelerator pedal and the throttles, on the *real deal* the operation still feels more direct. The springing is harder. This car straddles the two camps, which isn't a bad thing.

You sit quite high, in the modern BMW way.

The seats on this car are 135i items and the range of adjustment is fine – they also pinch the lower torso well, which is a good thing given the road behaviour of the car.

The 1-series M uses the same steering rack as the 135i, but its wider tracks and completely altered footprint make its responses feel quicker – it's a car that wants to change direction.

The control weights are undeniably M: the clutch is long-of-pedal but engages closer to the floor than on a regular 1-series. The gearchange is short and slightly resistant, much like an E46 M3's – in fact the more I drove the car the more that comparison began to stick. From the action of its shift, to the movement of its pedals and the slightly overthick steering wheel rim that doesn't quite reveal all that you'd like to know about the surface underneath, there is much more than a hint of E46 M3 in this car – and that is a very good thing indeed.

There's a completely new set of springs, dampers and roll bars. The rear axle assembly, including the M Variable Differential, has been swiped unchanged from the current M3, and the contribution it makes to the character of the 1-series M Coupe proves that M cars are defined by much more than high engine speeds and telepathic throttle response.

It immediately feels like a very fast car: pin it in second and the initial thrust is V8 M3-strong. It keeps pulling hard in the midrange, and only when the rev-counter shows around 6000rpm does the shove subside. The first time it did this, a little bit of me was disappointed, but then I began to explore the flexibility of this impressive engine and, honestly, I didn't give its inability to smear itself against a 9000rpm rev-limiter a second thought. This car has immense real-world performance, in fact judged by that most important of criterion, Net Available Performance, I reckon it's as fast an M3.





## 'I REALLY LIKE THIS CAR. IT'S COMPACT, REAR-DRIVEN, FAST AND NOT A PADDLE IN SIGHT'



In third gear, it'll pull from 750rpm, feels strong by 2000rpm and will tear strips off most other tackle from there to six grand. Crucially, it likes to hold on to gears: from a balanced throttle in any gear, the response is very good, certainly sharper than in a 135i, and at times it is very hard to spot the turbochargers in operation. That other telling indicator of a world-class turbo installation: the ability to match engine and gear speed on downshifts without even accounting for a puffer is certainly in effect here. Oddly, I found it easier than an M3 in this respect.

No, the noise isn't exceptional. BMW is working hard to extract some music from those turbos, but there isn't much beyond a defiant drone under load. Simieskol insists that they've still got some work to do, and any improvements they can make will be a bonus. To be honest, it didn't really bother me.

Perhaps because I was so wrapped up in the chassis? This is a seriously entertaining car.

We only had a short time with it, and I had a nice man from BMW sitting next to me, so it wasn't possible to disengage the systems and truly misbehave, but we gave it enough to expose a genuinely entertaining hustle. It's a car whose attitude is dominated by that differential, because it has so much torque pushing through it from virtually no engine speed, you're more aware of it than in an M3. It wants to understeer, but push harder and you work through a nice wide neutral window to the point where the car skims through with just the suggestion of a slide.

I can't pass comment on the brakes, because this car was a very tired old gal – specification looks good, though, with six-piston calipers up front and adult-sized drilled discs.

Couple that with excellent damping (the roads were too smooth to say much about the ride) and the short wheelbase and you have a car that darts its way around with real energy. There isn't much steering feel, but then there

hasn't been in M cars for years – even so, this is a better rack than you'll find in an E92 M3.

So, as you can tell, I really like this car. It's compact, rear-driven, fast and there isn't a paddle in sight. It has the presence of a real M car and once you acclimatise to the less zingy nature of its engine you can identify in its behaviour perhaps the most important M attribute of all: its controls somehow feel more connected and natural the harder you push. Gearchanges are smoother; progress is less jerky, faster and more pleasurable.

Yep, I'd have me one of these. If it doesn't creep beyond £40K it'll prove that the X6M, X5M and the pricing of the M3 GTS were just minor blips. Cracking little thing.

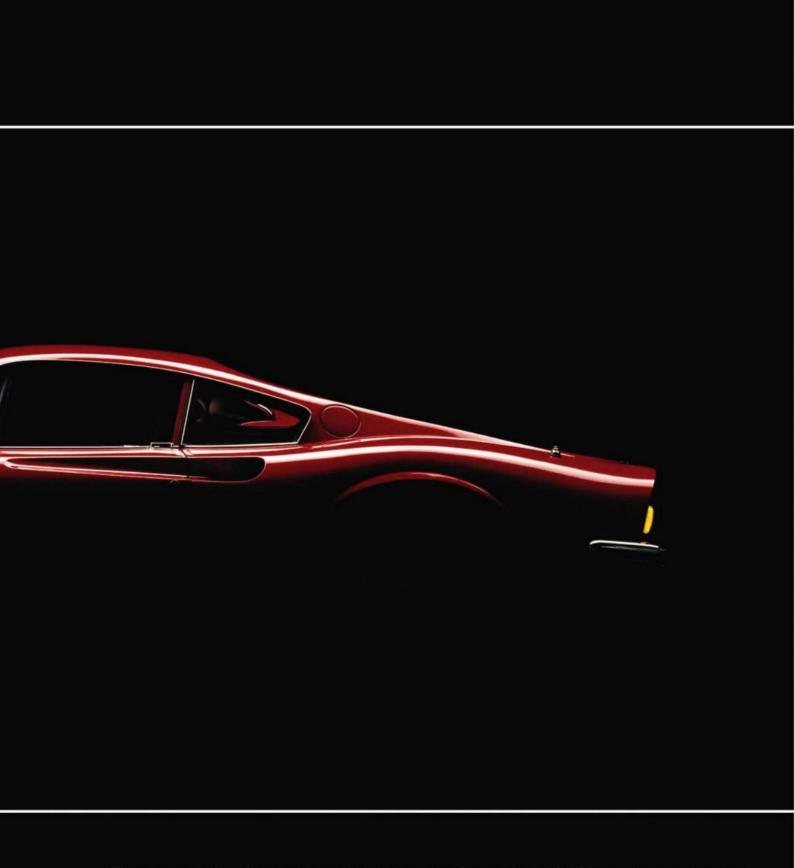
Chris Harris

## **EVO** RATING

- Feels like an M-car
- Noise (the lack of)







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## SUBARU WRX STI

■ FOUR-DOOR SCOOBY RETURNS ■ SHARPER HANDLING FROM NEW SUSPENSION ■ 296BHP FLAT-FOUR GETS SOME WARBLE BACK ■ 'IMPREZA' BADGE DROPPED

here isn't a word missing from the headline above. Subaru has decided that the car you see on these pages will no longer be called Impreza, just WRX STI. From now on

the famous name will be applied only to the more mundane variants of the model. It's as if the company wants to distance itself from its past of Mica Blue paint (no longer available) and gold wheels (likewise), even though 60 per cent of the cars it sold were to fans of McRae, Burns and Solberg.

The other thing that's missing from this particular WRX STI is the hatchback that we've become used to in recent times. Such was the clamour from those same rally fans that Subaru decided to bring the saloon back to the UK (in the States and Japan it never went away), though a five-door will continue to be sold alongside. I'm not really sure which I prefer the look of. I'd like to see an obscene WRC-style wing on the back of the saloon (and one is available in other markets), but apparently the latest thing in the *Max Power* world is to take all wings off and go with the clean look, so what do I know?

Well, I do know that the 2011 WRX STI is better to drive than its predecessor. The big news under both body-styles is that the

## **SPECIFICATION**

Engine Flat-four, 2457cc, turbocharged CO2 243g/km Power 296bhp @ 6000rpm Torque 300lb ft @ 4000rpm 0-62mph 5.2sec (claimed) Top speed 158mph (limited) Price £3.295 On sale Now

car gets new 'Spec C' suspension, which sees spring rates up by 15 per cent at the front and a massive 53 per cent at the rear. The front and rear anti-roll bars are also thicker, the subframe bushes at the rear have been changed to improve camber stiffness and the ride height has been dropped by 5mm. In a final quest for increased grip and improved dynamics, the wheels have grown from 17 to 18 inches in diameter but have shed 2kg per corner in weight while the tyres have gone from 235/45 R17 to 245/40 R18.

The turbo flat-four is basically unchanged from the previous generation. Peak power remains 296bhp at 6000rpm, torque 300lb ft at 4000rpm. The most engaging thing is that the new exhaust system has a larger centre box and wider-diameter piping so that some of the distinctive boxer burble is back.

As soon as you climb inside the car it's obvious that, even if Subaru lags behind European manufacturers in cabin design and pleasing plastics, it knows how to pick a good seat. The Recaros in the front are new and feel more aggressive in their bolstering,



Above: turbocharged 2.5-litre flat-four still has 296bhp. Below: four-door body looks dull without big rear wing

squeezing you particularly snugly just above your hips.

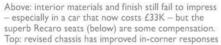
Press the starter button, depress the clutch, and the gearlever goes home as precisely but a little more slickly than before, which is nice. We've picked up our test car from just near the Eurotunnel in Folkstone, and even by the time we've journeyed the couple of miles to the train it's obvious that this latest STI is much improved.

There are some good corners as we head south of Calais towards the circuit at Croix













en Ternois. The roll when turning-in that afflicted the old car is gone and the whole chassis set-up feels pleasingly firmer and more direct. The steering has more meat, and inputs have a much more accurate and incisive result, so you can be more confident placing the car in a corner. The firmer set-up and wider tyres mean there is a slightly increased tendency to follow cambers, but you're so much more connected to what the front end is doing that it's not a problem. The ride is undoubtedly firmer, but the STI still rounds off the bumps well enough to ensure that it's not an uncomfortable place to be.

So, it drives more like an Impreza should (yes, I know, but I'm sure everyone will call it that) and it looks more like an Impreza should, but it also costs more than an Impreza should. The price of £32,995 (for either hatchback or saloon) is up a hefty £5000 on the old model, an increase that Subaru blames on the poor yen/sterling exchange rate. This means the STI no longer undercuts Mitsubishi's Evo on price, so it will have to rely solely on those improved dynamics when the inevitable twin-test takes place...

Henry Catchpole

## **EVO** RATING

\*\*\*\*

- Better to drive
- Bigger price; needs a wing

## DRIVEN

# AC SCHNITZER ACS4 TURBO S

■ TUNER CREATES BEST-HANDLING Z4 YET ■ POWER UP TO 375BHP ■ STYLING TWEAKS BRING ATTITUDE TO MATCH



#### SPECIFICATION

Engine In-line 6-cyl, 2979cc, twin-turbo CO2 210g/km Power 375bhp @ 6100rpm Torque 383b ft @ 4250-4900rpm 0-62mph 4.6sec (claimed) Top speed I86mph (claimed) Price See text On sale Now (www.ac-schnitzer.co.uk)



ave you ever seen a betterlooking Z4? Me neither. The combination of lowered suspension and dark alloys transforms the demeanour of BMW's roadster. It would look

even cooler without the stickers, but this is AC Schnitzer's demonstrator, and besides, there's a suitably serious uplift in power to back up the appearance. Mind, as this is based on the new 335bhp Z4 sDrive 35is, it wasn't exactly short of grunt in the first place.

As a demo car, this Z4 is fitted with just about everything in the catalogue. Body-wise, there's a curvy carbonfibre splitter and, above that, an Aston-style set of aluminium spars; on the flanks there are new wing panels with SLR-like chrome strakes, and at the rear a pair of neat boot-lip winglets and a reworked valance.

Mechanically, the suspension is lowered by an inch and fitted with stiffer, rising-rate coil springs, a fatter rear anti-roll bar and re-tuned dampers. Those new, airy 19in forged rims help, too, minimising unsprung weight. The tyres are Conti Force Contacts – Continental's first trackday tyre – and then there's Schnitzer's brake kit, with bigger discs front and rear and six- and four-pot calipers respectively.

The power of the twin-turbo straight-six is lifted to a mind-focusing 375bhp thanks solely to reworked engine electronics, while replacement exhaust back-boxes give the motor a louder, more appealing voice. And it doesn't take long to appreciate that every last one of the claimed horses is there; the swell of torque in the mid-range is now mighty.

Better still, there's a much more connected feel about the chassis, both in the sense that the car's front and rear now work as a whole and that you can feel what's going on at each corner. This is the first Z4 we've driven that feels fully exploitable. Yes, it's a firm set-up, but the ride has hardly deteriorated compared with the stock car on its run-flat tyres.

There's a more consistent weight and more realistic feel through the steering, and there's no shortage of grip, either. In fact, there's almost too much – those Contis hang on and on, so the engine is straining on full boost when the torque does overcome the traction. As soon as that happens with stability off, the boost is released and the rear tyres spin up even faster, snapping the car sideways. There's great

Dark 19in alloys (right) and carbon splitter (below) give the Z4 a more aggressive look





pleasure to be had in simply working within the ACS4's considerable limits, though. There's a clarity and focus to its dynamics, and you can feel the rear digging in and getting the torque onto the road. It's an engaging, rewarding drive.

The total conversion as seen here adds a substantial £24,767 to the cost of a £44,220 Z4 35iS, making it a near-£70K car, though everything is available individually. A 'driver' pack, with the engine, suspension, brakes and wheels, would be £16,306. Still not cheap, but it turns the Z4 from a wannabe into a proper sports car, and a handsome one, too.

John Barker

#### **EVO** RATING

Brings out the sports car in the Z4

- Doesn't come cheap



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## DRIVEN



## LOTUS EVORA S NEW 345BHP SUPERCHARGED EVORA REVISED CHASSIS A TRUE 911 RIVAL?

he addition of a supercharger has a profound effect on the Evora. It lifts the output of the 3.5-litre V6 from a slightly lazy 276bhp to a much more alert

and interesting 345bhp. At the same time, it moves the upwardly mobile and ferociously ambitious Lotus into core Porsche territory, standing the Evora toe-to-toe with the entry-level 911. On power, weight and price, there's not much in it, and Lotus's chassis experts have been hard at work, refining the Evora's sublime dynamics to exploit the extra punch.

If the supercharger wasn't on show in the back window you might never guess that this Evora has forced induction. There's none of the rasping whine that characterises the supercharged Exige, and the instantaneous throttle response and linearity of the power delivery give the impression that there is simply a bigger engine in the back. The 'charger is an Eaton TVS (twin vortex series), its installation engineered in conjunction with Australian firm Harrop, and as well as

## SPECIFICATION

Engine V6, 3456cr, supercharged CO2 239g/km Power 345bhp @ 7000rpm Torque 295lb ft @ 4500rpm 0-60mph 4.6sec (claimed) Top speed |72mph (claimed) Price £57,550 (2+0) On sale Now

lifting power to 345bhp at 7000rpm it also bumps up torque by around 35lb ft right across the rev-range, peaking at 295lb ft at 4500rpm. It's cooled by a pair of oil/water radiators mounted in the nose – along with the associated pipes and fittings, plus the mass of the 'charger itself, the installation adds a significant 50kg to the kerb weight.

This may now be a 1430kg Lotus – no flyweight – but its chassis is reportedly remarkably sensitive to changes. Most of the work has focused on the suspension bushes, which have been re-rated to reduce camber compliance and increase lateral stiffness – in short, there's less give in cornering and less geometry change, too. The spring rates remain the same, the damping has been tuned to suit the new suspension characteristics and there has been work on steering feel to give more consistent weight on centre and

on lock. A new option is larger, diamond-turned wheels (up from 18/19in front/rear to 19/20in) fitted with the latest generation Pirelli P Zero Corsa tyres with a more conventional tread pattern, making them less noisy and grippier in the wet. Our test car had these fitted, while standard kit includes the close-ratio gearbox (a must-have on the stock Evora) and the rear diffuser.

Almost from the moment the wheels start rolling, the S feels quite different to the regular model, the steering having more weight and the ride being a fraction firmer. There's a bit more of a boom from the V6 on start-up, though that's probably because this car has the optional sports exhaust, too (the stock system is valved to manage backpressure across the rev-range). It's still not an evocative-sounding engine when you're loafing around, its voice merely a collection of whirrs and zizzes; it's much better from the outside, or with the windows down. There's no question the power is all there when you put your foot down, though, the V6 snapping the Evora forward with welcome vigour, and sustaining the push all the way to 7200rpm if









Above: neat supercharger installation lifts power of Toyota-sourced V6 from 276bhp to 345bhp. Above left: power slides now an option, despite lack of slippy diff. Below: optional diamond-turned forged alloys with sticky P Zero Corsas. Above right: diffuser is standard



you've pressed the 'sport' button.

It's a good solid push, especially noticeable at low revs and exiting bends, when it gives the rear tyres a tougher workout. As mentioned, although the changes to the chassis appear mere details, the S has a quite different feel. The standard car had an Elise-like delicacy, a lightness, a deftness, that made it effortless over difficult roads. The new set-up suits the output of the S, bringing more direct and less easily deflected steering and more positivity and control in the corners at the small expense of a firmer, slightly noisier ride.

DPM (Dynamic Performance Management), Lotus's stability control, is standard on the S and works well, subtly keeping excesses in check. A looser leash when the 'sport' button is pressed allows you to feel what the car does if you push to the limits. Answer: despite the mass of that tall V6 and the extra torque, the Evora S behaves exceptionally well. There's oodles of feedback and the limit is a soft edge rather than a cliff edge.

With DPM off, the nose runs a little wide at first, but keep the throttle on and the torque will tip the balance rearwards towards the end of the corner until the rear is slipping slightly. You now have options that weren't open to you in the stock Evora, and although the weight can carry the rear if you back off sharply into a turn, it won't keep going, the chassis feeling flat and poised and recovering to neutral as the speed scrubs away.

On track it's superb, power-sliding despite the lack of a limited-slip diff and showing that same composure through high-speed corners. The gearshift is a little disappointing under pressure but the many small changes, which will also filter down to the stock Evora, make it more direct in general use.

It's a different sort of Evora, the S, a more direct, more focused and much faster one. Better than a base 911? Different. Not as rich in character or as polished as the Porsche, particularly when ambling, but a compelling alternative. Bodes well for the future...

John Barker

## **EVO** RATING

- Extra power makes Evora a genuine 911 rival
- We know what happens to most 911 rivals

## DRIMEN:THE OUTSIDERS

FINDING THE THRILL OF DRIVING... IN UNLIKELY VEHICLES





K, it's an MPV. Not an evo thing, really, although a Ford S-Max and a Vauxhall Zafira VXR have passed through our portals in the past. But there's something different going on here.

A Ford Focus is a good car to drive. Among mainstream hatchbacks, nothing gets closer to evo values of steering, handling, ride, flow. Much of this rubbed off on the first C-Max, which belied its staid, boxy looks by being a much better driving machine than perhaps it needed to be. Now look at the latestgeneration C-Max you see here. Not quite so boxy

Soon there'll be a third-generation Focus. It will have a 'faster' roofline than the current hatchback and a smidge less rear space. As before, the C-Max precedes the regular Focus and gets the new platform first. There is also an extended-family-friendly Grand C-Max, with seven seats and clunkier styling, and that means the five-seater C-Max (with prices starting at £16,745) can play the style card in a way the old one could not. It's the regular-Focus alternative for people who really do need a useful rear cabin.

Ford's marketing pitches it as the empty-nester version. Subtext: high driving position for seizing-up joints, a distant dash and a good view forward for long-sighted eyes. Sounds like a recipe for terminal



Exterior has lost much of its boxy look for more dynamic lines



Interior is well finished with a more stylish dash than before

dullness beneath a superficially 'sporty' veneer, but that notion sells the C-Max well short. In fact it's a whole lot more than that.

The new 1.6-litre, 148bhp, turbocharged EcoBoost engine (which takes the price up to £19,745) is part of the draw. It pulls hard from low speeds with minimal lag, thanks to the airflow-scavenging effect made possible by extremely variable valve timing, yet it revs with vigour. Overtaking is a breeze, helped by Ford's new, slick-shifting six-speed gearbox.

But the best bit is the way you lose all notion that you're in an MPV as soon as you aim at some inviting bends. You sit quite high, so your sight-lines are longer and you can carry speed over undulations. Yet the C-Max neither rolls much nor suffers the artificial lateral stiffness that troubles many lofty cars. It just steers incisively and naturally, disguising its electric power steering well, and flows on throttle and brakes just like a Focus should. And it rides beautifully, so your offspring lounging in the back won't suffer for your amusement. The C-Max does it all.

A multi-purpose vehicle? I should say so.

John Simister

- Tidy handler, strong engine, practical
- Do you really need all that space?



## CITROËN DS3 99g I.6HDi

he last time we had a Citroën in Outsiders, it was the C6, the most off-thewall executive saloon that taste can buy. Now we have perhaps the most rational car in the French firm's line-up. Yes, it's a DS3, so the bodywork has a bit of strut and funk about it, but what's underneath sounds far too virtuous to be any fun.

This car has but 90bhp and puts out a mere 99g/km of CO2, yet Michelin Energy Saver tyres aside, there are no outward signs of parsimony, so you're free to enjoy it for what it is - perhaps the most naturally talented and evenly balanced car in the DS3 line-up. No, it's not as fast as our long-termer with its turbo'd petrol engine - 0-62mph takes 11.5sec here - but what the 1.6litre turbodiesel does deliver is a good wodge of smooth, evenly and quietly delivered torque in each of its five well-chosen ratios.

But the real enjoyment comes from maintaining momentum. This £13,800 DS3 trades the hotter version's more superficial excitement for a deeper glow of satisfaction, adopting an easy, relaxed gait. Sat back within the chassis, you feel front and rear move in harmony.

This could well be the sweetest DS3 in the whole range. In fact, it put me in mind of another car that appeared on this page recently - the BMW 320d Efficient Dynamics. Maybe there's something in this new wave of eco-cars...

Ollie Marriage



- Looks good; drives sweetly
- A bit sluggish off the line





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## evo mail

## Letter of the Month

## **Lotus Repositioned**

can hear the howls already. As Lotus makes a bold leap to reinvent itself as a premium sports car manufacturer, legions of Elise owners like me will be lamenting the death of the current lightweight 'basic' model philosophy.

Yet hang on a second; Lotus Cars has not made a profit for ten years. Ten years in which it has basically been selling minor revisions of a model launched in 1996! Lotus clearly has no future doing 'a bit more of the same'. The whole business model must be ripped up or Lotus will be another misty-eyed memory.

The master plan (evo 150) looks full of challenges, not least the need to make perceived quality match competitors in these rarefied market segments. The Evora may have delighted journalists, but sales are

slow because customers are not yet comfortable buying a £60K Lotus, so managing those brand expectations is going to be key. The new designs themselves are variably convincing but at least Lotus has gone for a styling palette that is consistent and fairly distinctive.

So I suggest we put aside the lossmaking nostalgia, give the new team a cautious round of applause, and see if they really can deliver cars to savour, cars that might actually secure the company future.

As for replacing my Elise sometime, another article in issue 150 gave me an idea... I wonder if Caterham Cars would like to add a second range by repeating what it did when Colin Chapman walked away from the Seven?

Bruce Woodhouse, Skipton



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## Top. Cat.

Absolutely stunning! The new Jaguar C-X75, that is (evo 150). Until seeing this car I had begun to be firmly convinced that we were living through the late autumn of a golden age of cars and motoring. Manufacturers' attempts to build politician-pleasing cars was surely the beginning of a fairly steep and slippery slope to the automotive equivalent of the zombie's living death. Even Porsche with its amazing 918 seemed to be continuing the uneasy arranged marriage between internal combustion and electrical motivation in an effort to 'environmentalise' the motor car and in particular the sports car.

Yet the gas turbine and the electric motor are surely the perfectly symbiotic technological marriage. Now suddenly the possibilities of the car surviving in an exciting and mechanically interesting way have been completely opened up again!

Can you imagine the fantastic whistling and whining soundtrack of this thing on full chat? Or that eerie whistle as you arrive in the car park like the opening title sequence from UFO? (Older readers will know what I'm on about.)

Then there's the exquisite shape





James Cahoon thinks evo should do more to halt the rise of paddleshift gearboxes

that makes so many current offerings look overblown and overwrought. Please don't make us wait ten years for the body at least, Jaguar. Surely with modern low-volume manufacturing technology we could see a version of this car with a V8 in the back. It would certainly give Audi a damn good run for its money.

Jaguar is changing the automotive landscape. As Harry Metcalfe so rightly said, 'who'd have thought it?' Mark Taylor

## Shifting attitudes

Surprise, pleasure and disappointment in equal measure. That's what I felt after soaking up Chris Harris's column in issue 149. On a personal level, I totally agree with his sentiments. Robot gearboxes

massively reduce driving involvement. It's that simple.

With the pleasure accounted for, what surprised me was Harris's evangelising tone. It's surprising because a robotised 'box has never prevented Harris and evo from awarding cars with the ultimate five-star accolade. Most recent, of course, was the Ferrari 458. In fact, in the very same issue Harris once again refuses to punish the 458 for its double-clutch 'box, preferring not to offend Ferrari and hiding behind the age-old horses-for-courses cliché.

As for the disappointment, the fact that the 458 isn't at least offered with an optional manual 'box is pretty much a travesty. The 458 and Ferrari deserve to be marked down, even if that means evo heading up

Ferrari's shitlist and not being invited to launches. Moreover, if proper drivers' cars are to survive as a breed, somebody influential has to speak up for them. Man up, lead opinion and burn a few bridges. If not the likes of evo. then who?

Unfortunately, the answer is nobody. Even if evo had a sudden change of heart, it's very probably too late to turn the ship. With that in mind, please let's not have any more moaning in these pages about the inevitability of a turbocharged, double-clutched, stability-controlled future. You've had your chance to make a difference. You blew it.

#### James Cahoon

Man up? Like stick it to them about no manual 'change in the first drive (like I did), grill the project chief (like I did), end up so far off the end of the Christmas card list by using a non-factory 458 and GTO in issue 149 that the factory won't speak to me? Don't accuse me of being kind to Ferrari. Read the 458 v GT3 RS test again: there's implicit criticism of the paddleshift in there because I say how much more rewarding the Porsche's stick is.

The game isn't up. I and **evo** campaign hard for this stuff. But the fact is it takes two lines of attack: public criticism and

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## evo mail

a sales trend. I can help on the one front, but not the other, and 90 per cent of people that bought 430s had them as F1s — Chris Harris

## Badge engineering

Having just finished Harry Metcalfe's 'Insider' column (issue 150) about badge engineering in order to make a not-quite-green car more acceptable to the critical public, I wanted to share my quite successful approach to the same matter. Pictured is the badge that helps make my matt-black Nissan GT-R much more readily welcomed by even the worst CO2 hardliners. (Thanks, Mr Prius, for the loan.)



How Wolfgang Krueger has made his matt-black Nissan GT-R appear green

#### Size matters

I read with interest Harry's 'Insider' regarding the automotive industry downsizing. Smaller engines and lighter weight are surely good things for a better driving experience. The Germans' race to put bigger and more powerful engines in their latest saloons does not necessarily make better drivers' cars.

Now, I'm not shy of these vehicles, having owned a couple of M5s in the past, but the current M5 is not really a great drivers' car because it can't disguise its weight. The forthcoming 1-series M Coupe, 'inspired by the E30 M3 in the pursuit of back to basics', sounded like a car I could be interested in. Yet it will cost £40K, have a turbo engine and weigh I500kg. That doesn't sound like back-to-basics to me. Shouldn't a back-to-basics drivers' car be normally aspirated, low weight and affordable?

I get most of my driving thrills from my Elise SC, but even the new Lotus cars of the future will be heavier and much more expensive. Downsizing and drivers' cars should go hand-in-hand but, worryingly, I can't see it yet. Chris Spearing

We share your desire for smaller, lighter, more affordable cars, but we think you'll like the 1-series M Coupe (see Chris Harris's early impressions on p44) – Ed

#### Leave 'em outside

At last a return to form for evo. After months of whole issues being taken up by one or two cars (F1, M3, Porsche vs Ferrari) you have produced an issue (150) with a great blend of different vehicles, some of which are dreams, some potential reality – that's what I subscribe to your magazine for!

But can you please, please ditch the Outsiders page? I don't think I'm alone when I say I really don't care about the Nissan Juke or a hydrogen-powered London cab. All the cars you review should have at least some sports car element to them — that's why I buy your magazine and not What Car?

As for having a Skoda Yeti as a long-termer... come on guys, there's loads of new hot hatches you could be testing instead (and I'm a Skoda owner, so I'm not a badge snob). Rant over.

Joe Bilton, Beverley, East

### Joe Bilton, Beverley, East Yorkshire

The idea of Outsiders is to highlight cars with real driver appeal that might otherwise slip under the radar. Many of us have to have a practical family car as well as a sports car, so we wanted to flag up which ones are fun to drive. The Yeti's a good example — **Ed** 

## Warranties 'n' chips

I was intrigued by Ollie Marriage's investigation into chipping (evo 146). Having worked for a company carrying out remapping and also for a prestige car dealer, I feel I have a fairly rounded view of the advantages but also the potential pitfalls.

When carried out by a reputable company, chipping really is one of the few win-win modifications out there. I've experienced the economy, performance and driveability improvements first-hand.



Joe Bilton believes the cars on our Outsiders page have no place in evo



A visit to the Highlands allowed Ryan Docherty to enjoy his E92 M3 on some of the best roads around. He'll be going back (see 'Great north run')

However, you quote Superchips MD Ian Sandford as saying: 'the manufacturer's warranty will be invalidated because you've altered the standard specification, but that's also true if you change the tyres.' I've never come across a manufacturer who would invalidate your warranty because you changed the tyres!

A remap on a modern car, take a BMW 335i for example, is as obvious as a punch in the face. Increases of 50-60bhp are commonplace now and it would take someone who knows the product (a technician at your local dealer, say) a matter of yards to tell the difference. And despite how clever the tuners are who alter the software, the manufacturers are hardly simpletons - after all, they wrote the software in the first place - and can easily hook up to a modern ECU to check things out. You can be sure that if a manufacturer has a valid reason to reject a warranty claim, it will.

My advice: if your car is within the manufacturer's warranty, take these issues into consideration, and look carefully at any warranty provided by the tuner before making a decision.

### Great north run

Enjoyed the 959 v 288 GTO article (149). In fact I'm sure I recognised some of the roads on the North York Moors and the car park at the Lion Inn, Blakey. If it isn't, then it's a carbon copy. That particular road that takes you from Castleton to Hutton-Le-Hole is a dream; it's just a shame it's not both longer and quieter, but even just coasting along it takes you to a place that is pretty rare these modern times - basically enjoying driving! I feel privileged to live amongst such outstanding beauty, from Guisborough to Whitby to York and everything in between.

I must admit, though, that my recent venture into the Scottish Highlands was a blast. I was in my E92 M3 with two friends in 355s and had a fantastic time (everyone should drive the A837 from Bonar Bridge to Loch Inveray at least once in their lives). I'll be there again next year, radio off, windows down, driving not to get anywhere, but simply for the sake of it.

Ryan Docherty, Redcar

## Tyre change

A couple of months ago it was time for a new set of tyres for my beloved II-year-old Ford Cougar. Since changing my alloys from the stock 16-inchers to an aftermarket 18in model, I have always used Kumho tyres. I thought that a tyre is a tyre; what difference can it make? This time, however, I decided to spend the extra money and buy some Continental Sport Contact 3s. Wow. What a difference. Less road noise, better grip, and a much nicer ride.

It was especially pleasing, therefore, to read in your tyre test (150) that Continental came first and Kumho last. Now, I'm sure Kumhos are perfectly acceptable tyres, and indeed they were £50 cheaper a corner, but from now on I will always buy premium-brand tyres; it really is worth the extra money.

## The colour of money?

Amid the sparkling prose chronicling the battles between Ferrari and Porsche (issue 149), three words leapt off the page. Nick Trott described his wild teenage excitement at his first glimpse of a Porsche 959 at full chat – and 'it was brown'.

That sums up the 1980s, when greed was good and taste wasn't. Just who would have shelled out £150,000 (then) for a glorious Teutonic technological tour-de-force and ordered the thing in bloody brown? Brown was for clunkers like Allegros or German taxis, not supercars.

I can only assume the offender was a colour-blind banker... who probably wore grey loafers with gold buckles. Ian Dow, Edinburgh

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## From the forums: 'The ultimate car'

Bunta: 'If you built the fastest racing car on land, one that throws aside all rules and regulations, what would that car look like, how would it perform, and how would it feel to drive?

The question was posed by Kazunori Yamauchi of Gran Turismo



The X1 Prototype is Red Bull's ultimate car. Forum goers have revealed theirs

fame. So Red Bull's Adrian Newey came up with the X1 Prototype for the game (he also claims that it would be very fast and Vettel would smash all lap times in it. Yeah, course he would. lol). Fine as far as it goes, but what would you build?

I'd have F-Zero. One lower than F1 so at least ten times better -F-Zero cars would hover and go over 1500mph down the back straights. Drivers would have to be vetted for coolness before they are allowed to

ShockDiamonds: I would imagine an F1 world but without the laws, rules and regulations. The cars would



Left: Bunta would like to see the 1500mph hovering cars from the F-Zero series of Nintendo games brought to life in a real race series

be techfests and the drivers, in all probability, faceless androids, Not sure we don't have the latter already, so at least we would get some further interesting technology.

Gwaredd: Mine would be Concorde with upside-down wings and massive tyres.

LT: How great would it be if somebody came up with a new Can-Am-type 'unlimited' series as the swan song of the internal combustion age, before we are all driving electric appliances on the road?

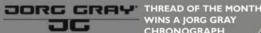
Preacher\_Cain: I'd like a half-track. Armoured. With a jet engine. And

lots of guns. Extremely cool, and highly shooty.

Orange Cola: There's a Puma that runs in a rallycross series with circa 700bhp, so it's already been done. The short wheelbase has limitations.

Dinny\_G: V8-powered RWD Volvo 440. Exterior and interior kept exactly as they left the factory...

Mary: Horacio Pagani already makes my ultimate car. It's called a Zonda F Clubsport with a carbon-titanium tub and a raw CF bodywork finish. Turn-key solution, no faffing around with strapping wheels to a Saturn 5 (though I admire that idea!)



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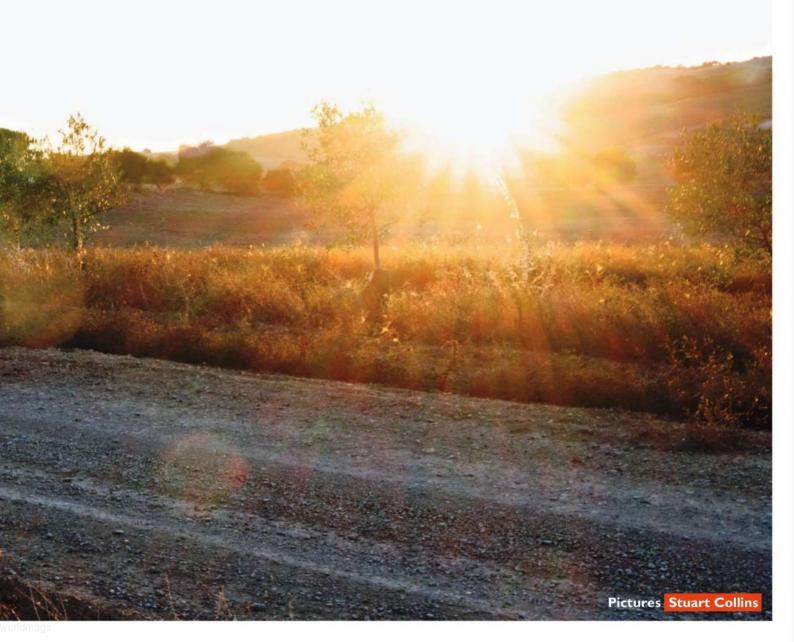
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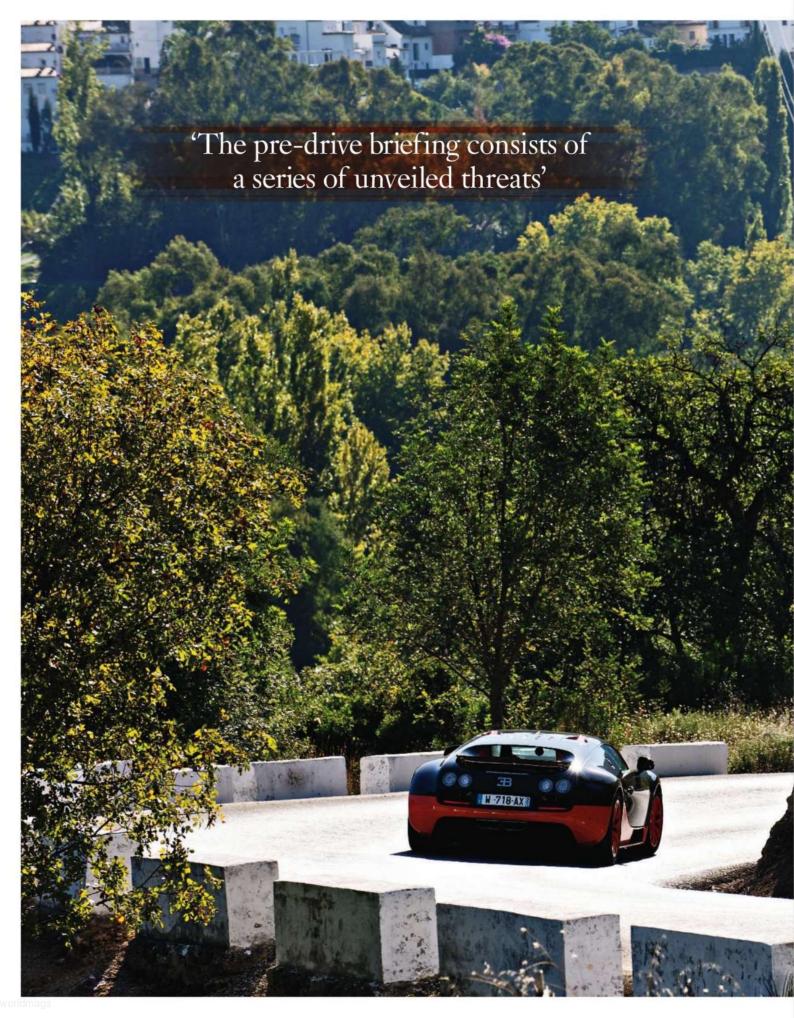


It's the world's fastest road car, and for one glorious day it was all ours. Chris Harris



describes an unforgettable encounter with the 1183bhp, 268mph Veyron Super Sport







#### WORLD'S FASTEST:

#### BUGATTI VEYRON SUPER SPORT

seem that they don't want a repeat attempt on these dusty Spanish roads.

It's not all bad though. Pierre-Henri says we'll be able to use the launch control. They haven't been letting previous groups use it because the tyre bill would have been astronomical. And so, several hours later, I find myself sitting on a straight, deserted piece of road, editorial director Harry Metcalfe alongside, Bugatti development guru Loris Bicocchi leaning in to show me how to engage launch control – or, more specifically, smokey launch control.

Smokey launch control is the unofficial name for an ESP-controlled function that allows the SS to launch with a little more drama than the standard program will permit. Turns out the average Veyron owner quite fancied the odd show-off moment in Cannes, and the Bug's brutal efficiency wasn't leaving enough visual evidence. For a smokey launch, more torque is thrown at the rear axle and those rear 365s take some serious pain.

At first, I can't fathom how to make it work, but Loris talks me through the buttons: 'Switch the ESP off, cover the brake with your left foot, make sure the handling mode is engaged and then press the launch control button: it should say LAUNCH on the dashboard now.' He grins

and wanders away, but not before adding: 'And Chris, no longer than two seconds waiting with the throttle please.'

I've just watched the in-car video of what happened next, and I'm very glad to tell you that my reaction is one of genuine shock. Hold full throttle and the engine sits at around 5000rpm. Now simply release the brake with your left foot as your right forces the accelerator into the carpet and let the double-clutch transmission do its thing. The noise, thrust and feeling of gently counter-steering against the ensuing slide are things that people like you and I take to our graves: the thick end



of 1200bhp pounding into pavement and the driver's head being forced back into the seat. 0-62mph in 2.5sec? 0-124mph in 6.7? I don't doubt it for an instant.

But it's when I dawdle back to try to relay my sense of shock to Loris that he delivers the killer blow about the Veyron SS, the statistic – above any single performance increment than can be attributed to it – that marks it out as the most extraordinary road car ever: 'We have tested the car with 100 of these starts in one day,' says Bicocchi, 'and there were no problems with the powertrain.' That is truly, truly amazing.

At the launch of the E60 BMW M5, we were allowed to do one launch-control start. After that, the reek of clutch was too much and the car felt like it would expire. Think that's an unfair comparison, because the Bug uses a dual-clutch tranny? When we ran a 911 Turbo S against the Atom V8 last month, the Porsche's PDK gearbox began to feel noticeably more sluggish after five standing starts.

The Bugatti has well over twice the torque of the Porsche, and yet it can run 100 potential half-shaft-slayers without a problem. It's this attention to engineering excellence that defines all Veyrons, but especially the Super Sport.



#### SIGN HERE

o, you've swallowed the brave pill and you've decided to order a Veyron Super Sport. What happens next?

Well, you can forget about ordering one of the five World Record Editions (like the car here, price 1.95m euros plus taxes, or around £2m at today's exchange rates) because they're all sold. So your only option is to order a 'standard' Super Sport, list price 1.65m euros plus taxes (call it £1.76m).

Now, you'd think everything would be included for that, but you'd be wrong. 'Bespoke' is the name of the game in this sector of the market and before you place an order you need to fully familiarise yourself with the options list and the multitude of paint and trim combinations. For this reason, Bugatti takes every potential customer out to the factory in Molsheim before they reach the stage of actually placing an order.

So, you might like to have the centre console finished in carbonfibre rather than turned aluminium. That'll cost you an extra £6826. Perhaps you'd like the exterior mirrors in matching carbon too; that'll be an additional £16,000 (having them finished in polished aluminium costs a staggering £32,000). Fancy having all the aluminium trim inside the cabin in a black anodized finish? It looks great but it'll cost you an extra £24,000. A mere trifle compared with having the carbon body left unpainted but lacquered: an additional £192,000, or £229,333 if you'd like a blue lacquer finish.

If you're still standing and you're happy to proceed with your Super Sport order, then a contract is drawn up detailing the exact specification you've chosen for your car, along with a polite request for 450,000 euros plus taxes (c£480,000), to be paid on signing.

Around six months later comes a further request for 450,000 euros when your car is about to enter build, and six months after that you can expect to take delivery. But not before paying the outstanding million or so.

The most expensive Veyron ordered in the UK so far is a World Record Edition that's going to cost its owner £2.18m. Still, he can rest easy in the knowledge that all Super Sports now come with a three-year warranty and servicing package...

Harry Metcalfe



Every prospective Super Sport owner gets this brochure, detailing the various options





#### BUGATTI VEYRON SUPER SPORT

From the moment you approach the SS, you know it has been built like no other car. This hardiness, this level of robustness and quality has, weirdly, been the cause of the Veyron's biggest problem: it is perceived as being soulless because it is so damn good at what it does. Pierre-Henri is passionate about this misunderstanding. 'If people want a car that is all about noise and being uncomfortable, this is not the one for them: the Veyron is a useable car, a comfortable car — but when you want, you can destroy any other car with it.'

To demonstrate this, he attacks a sequence of bends and a short straight using full power and, sitting in the passenger seat, the feeling of relentless surge actually squeezes your innards. This is the essence of the Veyron SS, and why I find it so fascinating. I think anyone who dismisses it as being 'boring' in the face of Paganis and Enzos needs to spend more time with it, dig a little deeper.

The thing reeks of quality, but then so it should for £2m. The door pops with a light *der-dunk* and as it opens a waft of expensive-smelling hide sneaks into your nostrils. Not

much has changed inside compared with the standard car, save the new power-meter gauge and some trimming. But I love the bareness of it, especially now all the metalwork is matt black. It doesn't feel like a car, more like an experimental rocket-device from *The Right Stuff*. The steering wheel on this one is trimmed in a super-fine leather but its surface has been machined to give an almost suede finish: it's a clever touch because it enhances the sense that this is like no other car, even through its control surfaces. It feels tougher, stronger; meaner. The revised A-pillar and wing mirrors give much improved visibility too.

The noise is fascinating: it's nothing like as loud as a Zonda, but after the starter motor has whinnied life into each of the 16 cylinders the exhaust throws a blanket of noise rearwards that leaves people open-mouthed. If needs be, you can silence the products of high crankspeeds, but you cannot hide the effect of the vast quantities of air ingested, combusted and expelled by a quad-turbo 8-litre motor. It's the only car with an integral sub-woofer in the exhaust box: it rumbles like an action movie.

The pistol-grip gearlever sits a half-grasp from your right thigh, again finished in matt black. Move it right and you feel a positive click as the electrical connections meet: remove your foot from the brake and the car creeps forward like a conventional automatic. And I suppose it's at this stage that you have to decide if you actually want to understand the Veyron, because if you do, the fact that this 268mph machine can roll away from a standstill with no more drama than a 2.0 TDI Golf should be a cause for celebration. Because it takes a lot more engineering expertise to make 1106lb ft useable and seamless at 5mph on a loose gravel driveway than it does north of 200mph. The Veyron's trouble is that it de-bullshits the hypercar to the point that people assume it is bereft of emotion. That's like ignoring the pretty girl because she isn't jangling her bristols in your face.

Anyone who thinks like this should experience a Veyron SS at full throttle in third gear. The dusty roads around Jerez are not the ideal location for such a demonstration, but then again, no other machine of this type can

#### THE DETAILS

huge part of the appeal of the Bugatti Veyron is the obsessive engineering that lurks beneath its carbon skin. Take the wheels, for example. They're a completely new design for the Super Sport and each one takes manufacturer BBS an almost absurd 30 hours of machining to create.

At least they last longer than before, meaning owners only need to throw them away every five tyre changes, rather than the hopeless three of the previous design. The cost of a new set of wheels and tyres, by the way, remains a very steep 50,000 euros, plus the VAT...

Over the top? Consider the huge centrifugal forces when those wheels are spinning at the world record 268mph. According to Bugatti engineers, at that speed there's the equivalent of 3100G acting at the outside of the wheel rim. Which means that the tiny 28gram tyre pressure sensor on the inside of the rim weighs the equivalent of 128kg...

Even the humble air-valve you use to blow the tyres up with had to be modified on the Super Sport – at 268mph the tiny 'pimple' you find inside all tyre valves has enough g-force acting on it to cause it to open slightly, so releasing some air and causing the pressure to drop slightly if high speeds are sustained. Bugatti ended up fitting a second spring to keep it closed.

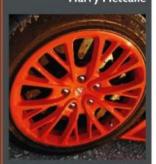
For me, it's this sort of daft detail that makes the Veyron so very special (even if customer cars are limited to a 'mere' 258mph in order to safeguard the tyres). I wonder how many other cars currently vying for the Veyron's new top speed record go to such colossal lengths to make sure everything is absolutely perfect? Not many, I suspect.

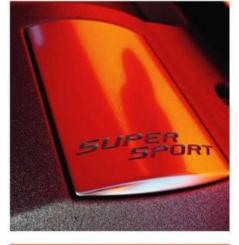
The construction of the Super Sport's tub is also different to previous Veyrons. It's formed from a new type of composite that Bugatti calls 'ultra high modular carbonfibre'. This is both lighter and stronger than the regular stuff, resulting in greater torsional strength, helping the handling and also allowing the A-pillars to be made slimmer.

The weight of the tub also drops by a useful 35kg which,

along with the 11.5kg saved by the new lighter wheels plus some detail changes to the way the radiators are plumbed, means the Super Sport weighs in around 50kg lighter than a standard Veyron. Shame it's still the wrong side of 1800kg, but then the engine alone weights 456kg...

Harry Metcalfe





Above: Super Sport badge can be found in the engine bay on the newly enlarged chargecoolers. Left: don't kerb this. Each wheel takes BBS 30 hours of machining and costs the thick end of ten grand. Below: ducts are new for the Super Sport. The tub, including roof, is made of a new type of carbonfibre





put its power down half as well as the Veyron.

There's a quite a lot of turbo-lag in the SS: you push the throttle pedal down and it takes a second for the turbos to spool up. This is never a problem, because even while they're doing it, the car still feels as fast as a 911 Turbo. And then, amid some choice boost-puffing and the locomotive low-frequency churning of those eight litres, the noise increases as the rev-counter spins through 3000rpm – and only during this phase, from 3000-6000rpm, does it immediately feel stronger than the boggo 16:4. When you relax your right foot, the wastegates gabble away behind you and W16 settles to a contented thrum.

Tellingly, when there are two people in an SS, they talk liberally because the thing is so damn refined, but when the taps open, there

is silence. You can't talk because your brain is trying to work out if you were propelled at the horizon, or if the horizon was just dragged onto your face. It's uncanny, ludicrous and, I think, completely addictive.

Part of its appeal lies in the responsibility it bestows upon the driver. You can use perhaps four seconds of its maximum potential at a time if you want to remain within the legal limit of most countries, longer if you're willing to remain responsible but take a few chances.

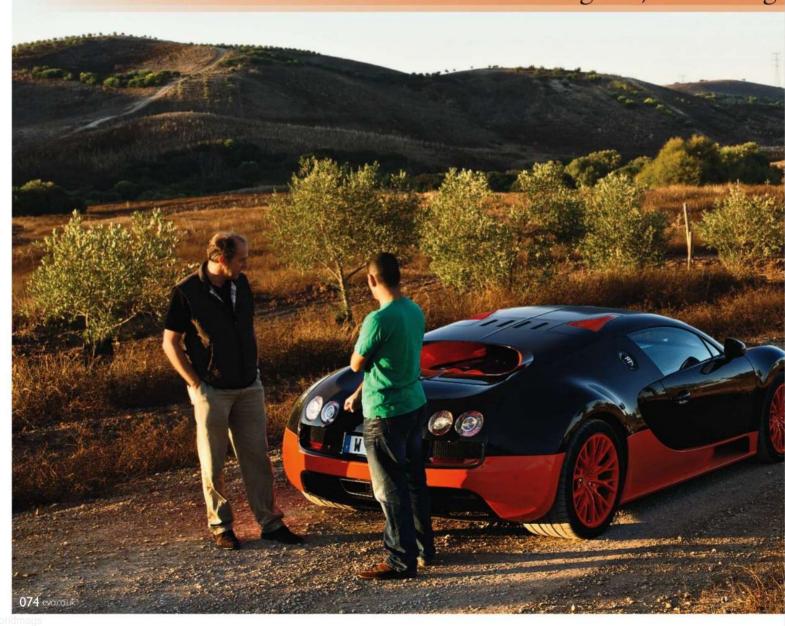
The revised chassis is a huge improvement because it gives far more in ability than it removes in compromises. The ride is a little firmer, but the damping is impressive and the car has as much agility as could be expected of an 1838kg lump. It isn't a wrist-flicking device though: you peel it into a turn with the throttle

balanced, unwind the lock and feed the power in gently. The steering is now lighter than before and even though some people think it's a backwards step I think it suits the car: there's no less feel, the new kinematics make it even more responsive and accurate than before. It suits the way you drive the car: smooth steering, smooth braking, WHAM, surreal power.

Those brakes are probably the car's weakest link: the 400mm front ceramic rotors are huge, and even if the team has done a good job of making them useable at low-to-medium speeds, all it takes is two big stops from north of 190mph to have them groaning in despair. They don't fade, but the pedal goes a little longer in recognition of the fact that no braking system exists for a car this fast and this heavy.

What a day. In many ways the Veyron SS

#### "...this obsession we have with travelling fast, witnessing



is a study into the human condition and its relationship with speed. It awakens in me the same thrill I see in my children as they push their own experience boundaries on bicycles and scooters; this complex obsession we have with travelling fast, witnessing blurred scenery, absorbing the effects of accelerated mass. I just can't get enough of it. Every thwack in the spine in the SS is an event to be cherished and I don't care that other machines offer greater opportunities to be seen and heard. Next to the Veyron they are brash plumage; strutting peacocks in the presence of a true raptor.

It is for this very reason that the Veyron Super Sport has its place in the hypercar hierarchy: its performance and peerless engineering ensure that it just happens to sit above them – way, way above them all.

#### FINAL THOUGHTS

t's five years almost to the day since I first climbed out of a Veyron, shell-shocked by what I'd just experienced, and blow me, it's just happened all over again. I had thought that feeling of unrelenting, torrential power you get from a Veyron on re-heat would never be bettered; surely that W16, quad-turbo engine had nothing more to give. How wrong I was. The Super Sport makes a regular Veyron feel, well, a bit pedestrian.

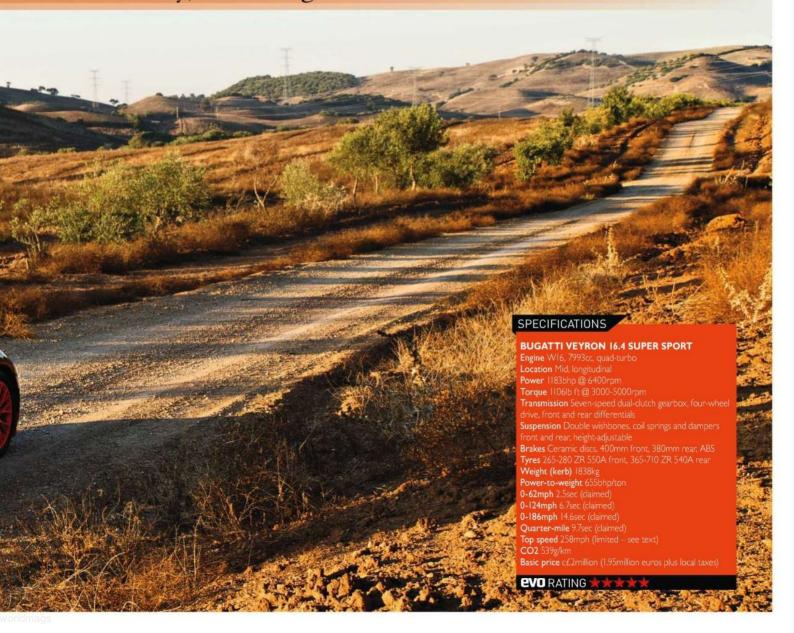
I feel for current Veyron owners, especially those who aren't just posers and really love their driving; taking a test drive in a Super Sport is going to ruin their day. Everything on this car has been improved, even those things you thought were already perfect.

The real revelation, though, is reserved for when you nail the throttle. When that engine delivers its killer punch, you'll fear for your sanity as the horizon goes all blurry and

the tacho needle does its little dance, one gear after another dumped unceremoniously. However many times you repeat this, you will never, ever tire of being pummelled by its massive forces.

We should thank the VW group for creating this complete monster of a car. They didn't create the Veyron to make a handsome profit. They did it because they could. So thanks Mr Piech and Co. It's flipping wonderful. HM

#### blurred scenery, absorbing the effects of accelerated mass...'



# engine room

The heart of the Veyron is its extraordinary quad-turbo W16. It's built in a small corner of a VW engine plant, by two dedicated engineers, at a rate of just one a week. Harry Metcalfe reports











ver wondered where the Vevron's engine is made? It turns out it's within VW's enormous Salzgitter engine factory, just to the west of Wolfsburg, where over 7000 VW group engines are cranked out every day. Included in this

huge daily total are 1500 2-litre TDi engines, all 1.2 and 1.4-litre twin-supercharged engines for the VW group, and the 6-litre W12 used in various Audis and Bentley's Continental GT. And, every Friday, a single completed W16 Veyron engine leaves the plant and heads for the Bugatti factory in Molsheim.

Salzgitter is simply vast, covering an area one and a half times the size of Monaco, but the area reserved for Veyron engine production is absolutely tiny. Inside Hall 4 is the 'Pilot Hall' where all the secret development work is done on future VW engines, and just to one side is a separate, rather nondescript area measuring just 19 x 6m. This is where the mighty W16 Veyron engine is made, and, to be frank, it's a bit of a disappointment.

But if the facility itself is a bit of let-down, the engineers assigned to Veyron engine-building are full of enthusiasm for their work, and why wouldn't they be? It takes two dedicated technicians a whole week to hand-build each W16 engine and, at the time of our visit, Super Sport engine number six is in the process of being built. In fact it's almost finished, with just a few components needing to be added before it's ready to be whisked off to the dyno facility downstairs, where an eight-hour bedding-in process will be carried out.

The assembly process begins with the opening of a wooden crate that contains the enormous aluminium block (cast in the UK, incidentally). The block is mounted on a dedicated engine stand that can be spun electrically through 360 degrees at the push of a button. From here, it gets built up in layers, starting with the installation of the crank, followed by the 16 rods and pistons being slid

Opposite: Metcalfe and the engineering phenomenon that is a completed Veyron W16 engine. This page, from top: the crated block arrives; amazing detail on internal engine components; valves seated in head; titanium con rods; rig spins engine through 360deg

into their respective cylinders. The sump is tiny - the W16 is dry-sumped with a separate oil tank (the 21 litres of engine oil that are pumped round a Vevron engine is the most for any production car).

The huge cylinder heads go on next, then the exhaust manifolds, turbos and inlet manifolds, followed by the chargecoolers, which are bolted to the top of the engine. Throughout the build process, everything is logged electronically, including every torque setting of every bolt used in the engine, so if there was ever a problem, heaven forbid, engineers could see if something hadn't been assembled correctly.

The completed engine (weighing in at 456kg) isn't exactly a thing of beauty, but then you never get to see it up close once it's installed in a Veyron and there's no doubting it does the business. In fact, as I'm about to find out, it could produce even more than the stated 1200PS (1183bhp in old money).

I ask Marian Busse, head of this Pilot Hall operation, what changes were made to the regular Veyron engine to create the SS unit. He explains that the four turbos are completely new - they're larger and capable of boosting up to 1.4bar (up from 1.2bar). The inlet manifolds were changed for a freer flowing design, the ECU was updated and the liquid chargecoolers are significantly bigger.

I then ask him if it was a struggle to reach that extraordinary 1200PS and Busse tells me that the Super Sport engine could happily have been rated at 1300PS but 1200 was the limit of the Vevron's new gearbox. So the Super Sport was effectively detuned to meet its remarkable

Apparently the W16 had to have the same durability standards as any other VW engine, so it was designed to last at least 300,000 kilometres. So, which engine would Busse expect to fail first as the mileage builds, a regular Golf GTI engine or the Veyron W16? 'I think it would be the Golf,' he replies. 'That is because the Veyron engine is hardly ever put under full load, so engine wear is minimal in normal usage.' He goes on to tell me about the Veyron that's currently undergoing durability trials and which has already covered 170,000 kilometres with absolutely no problems.

Within the Pilot Hall, they operate under a 'Zero mistake strategy'. You'd have to say it seems to be working very nicely...



Fast Fiction?

In the past, supercar manufacturers made some pretty extravagant top speed claims. We try to find the truth behind three of them

#### JAGUAR E-TYPE 150MPH

■ Jaguar made great play of the E-type's 150mph top speed when the car was launched at Geneva in March 1961. But was it genuine? Cleverly, the company had already made two early production cars available to road testers from Autocar and Motor magazines, and it was the Autocar team, driving a fixed-head coupe registered 9600 HP, who corroborated the claim on a lightly-trafficked dual-carriageway at Jabbeke in Belgium, recording a two-way average of 150.4mph.

However, as has often been speculated, 9600 HP wasn't quite standard. For starters it was fitted with Dunlop R5 racing tyres, which increased the circumference just a tad and hence the overall gearing. That much was known at the time. What was only confirmed later was that the 3.8-litre straight-six engine was far from production-spec. In fact it was a well run-in XK150S unit, meticulously prepped with a gas-flowed cylinder head carefully matched to the inlet and exhaust manifolds, probably good for an extra 20-25bhp. As owners and subsequent road testers discovered, production E-types couldn't be coaxed much above 140mph. Still, when many family cars struggled to top 70mph, 140 was seriously fast. One-fifty was, in today's terms, practically Veyron-quick. And the E-type or rather an E-type - really did do it.

#### **LAMBORGHINI COUNTACH 186MPH+**

■ The top speed of the Countach has long been a source of contention. It wasn't helped when the first production LP400 was released back in 1974 and even Lamborghini itself claimed not to know what the true maximum speed was. After pressure from dealers, test engineer Bob Wallace took one of the prototypes to Fiat's private 5km stretch of autostrada and recorded 290kph (180.2mph), which led to the well-publicised claim that the magic 300kph (186.4mph) would be possible, given enough space. Wallace himself said he wasn't particularly interested in top speed – he was confident a Countach would go faster than any customer was ever likely to want to go...

Road testers of the period struggled to get anywhere near the claim. *Motor*, for example, reached only 160mph with a very low mileage LP400 in 1974. Four years later, Lamborghini unveiled the LP400S which, they said, could reach 194mph. This was later corrected to 184mph – and that was still considerably faster than any independent road test achieved.

In 1982, the 375bhp Countach LP500S was launched, with a claimed top speed of 196mph. One of the first examples was bought by UK

Lamborghini enthusiast Barry Robinson (whose cars always sported the distinctive registration plate BR 33) and soon after taking delivery he was talked into having a crack at a number of UK speed records in this car. During pre-testing it was discovered the Countach's top speed round the Millbrook bowl was only 158mph so they took the rear wing off and the top speed immediately increased to 168.8mph, almost 11mph faster.

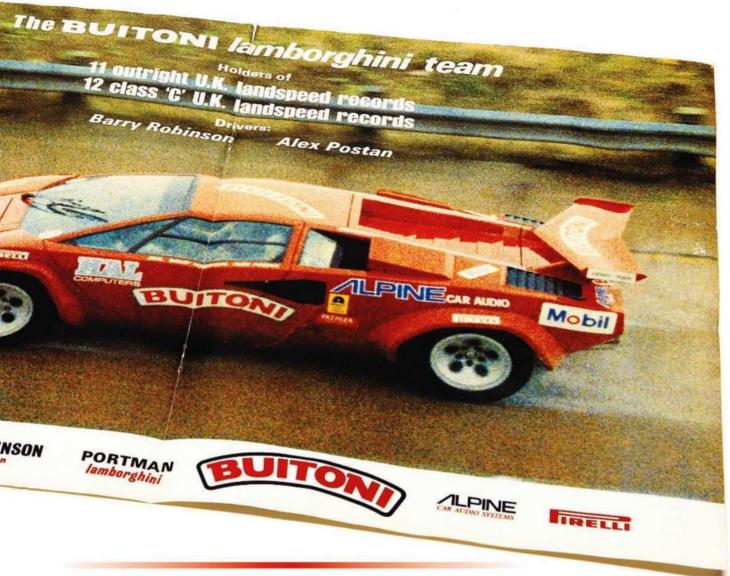
Unfortunately, on the day the records were to be set (October 15, 1983) it was pouring with rain and Barry decided to put the wing back on for stability. Along with his co-driver, Alex Poston, they went on to set II outright UK speed records,





Above: record-breaking in the '80s but Countach top speed remained in doubt. Left: few runways long enough to test F40's 201mph V-max. Below: the actual 150mph E-type





# 'They took the Countach's rear wing off and immediately the top speed increased by almost 11mph'

averaging around 155mph for distance records between 50 and 500km. The alleged top speed, however, wasn't in any danger...

Even though it slowed the car, customers loved the rear wing and all UK press cars had one fitted, leading to relatively disappointing performance figures when compared with Lamborghini's official figures (set using test cars without a wing). And so the debate went on. Then, in September 1986, Fast Lane editor Peter Dron went out to the factory to sample a customer Countach QV – crucially without a rear wing. With the owner driving, they recorded 195.2mph between kilometre posts on the autostrada and 184.9mph in the opposite direction. Averaging out at 190.1mph, this is by far the fastest independently recorded top speed for a production Countach. Just how repeatable that figure was is open to debate, of course...

#### **FERRARI F40 201MPH**

■ There was little doubt that one of the reasons Ferrari built the F40 was to stick two red fingers up at Porsche. The 959 had stolen the 288 GTO's top speed record with a 197mph (versus 189) run and Enzo wasn't having any of it. Although it has never been confirmed, you sense that the car that celebrated the 40th anniversary of Ferrari simply had to be the fastest car in the world. And it was.

Ferrari claimed a top speed of 20 lmph in 1987. It was a gloriously provocative claim – just over 200mph and just ahead of the 959. That the F40 was a barely disguised race car and the 959 a comfortable, all-weather 4wd supercar did not matter – the F40 had exceeded 200mph. Or had it?

Few disputed the claim – the F40 produced nearly 80bhp more than the 288 GTO – therefore the maths added up. Contemporary magazines

carried out plenty of acceleration tests, but few had runways or test tracks long enough to test the top speed. Indeed, **evo** contributor Mark Hales reported winding an F40 up to 170 'followed by the wrestle to get the Ferrari stopped before the test track ran out' in the book Into The Red.

Interestingly, it was not *Quattroroute* magazine's confirmed 200+mph top speed run that silenced the doubters but a guerrilla video made by a Japanese gentleman in which he filmed himself comfortable exceeding 300kph (186mph) on the highway. Watch it on YouTube – it looks easy.

The story doesn't end there. The legend that is Dario Benuzzi slapped on his fast shades in the early '90s and took an 800bhp F40 Evolution to 233mph at Nardo, and then in 2006 Amir Rosenbaum of Spectre Performance took an F40 on skinny dragtyres to 226mph... on the salt of Bonneville. **NT** 

# 5-LITRE VIOSUPERCHARGED TSOBHP 0-124 IN 1975EC 228 MPH

It may look like a near-standard BMW M5, but the G-Power Hurricane is the world's fastest saloon.

Henry Catchpole drives one as fast as he dare





082 evocauk

yelids are still heavy and, somewhere inside my skull, a slightly fuggy brain is trying to reconcile these facts: 1) It's the first morning since last winter that the darkness

has receded to reveal a sparkling white frost blanketing fields and windscreens. 2) We are in France. A France that is currently running out of fuel thanks to some students protesting about liberté, égalité et fraternité or some such rot. 3) We are about to rendezvous with a BMW M5 that I suspect will not only have serious traction issues but also a drink problem.

You might not be familiar with G-Power, but since 1983 it has been tuning BMWs just south of Ingolstadt. And for the last few years it's been at war with a rival on the other side of Germany, namely Brabus. G-Power currently has the upper hand because, almost exactly two years ago, this car, the Hurricane RS, grabbed the title of world's fastest saloon from Brabus's Mercedes CLS-based Rocket. The speed was GPS-verified at a faintly ludicrous 228mph – just 1mph faster

than the Brabus, but fast enough. (In fact, since then an 'RR' version has gone even faster, as you can read on page 86.)

We've come to a hamlet north-east of Paris, to a used car dealer called Stocard Auto. With its tacky neon sign and small forecourt of random second-hand Gallic saloons and hatchbacks with prices scrawled on the windscreens, it's not the place you'd expect to find a 750bhp twin-supercharged M5, but the proprietor is a good customer of G-Power's.

Monsieur Stocard himself is in a barn at the rear, changing bits of trim. He doesn't speak a word of English but thankfully photographer Nick Dimbleby speaks fluent French as well as brandishing a camera with no little flair. Apparently three weeks ago M. Stocard 'broke' his last Hurricane RS and so G-Power built him a new one (with the engine from the old one), which he picked up yesterday afternoon and drove back here through the night.

A closer inspection of the bowels of the barn reveals the panels of the previous car hiding in the shadows, including a rather crumpled







#### 'ON A HALF-MILE STRAIGHT IT EASILY BREACHES THE STANDARD M5's 155MPH LIMITER'



Left and above left: barn-cum-workshop at Stocard Auto is home to this particular Hurricane RS. Right: panels from Monsieur Stocard's previous Hurricane. Top right: new dials await fitment; speedo reaches 400kph (249mph). Bottom right: G-Power's 20in 'Silverstone' alloys, with massive six-pot calipers behind; bigger discs are on the way



left-rear door where he 'broke' it. In his office there are posters of various G-Power machines covering the walls. On his desk, next to a Pink Floyd album, is a set of instruments awaiting a home in the M5. The speedometer has been recalibrated to reach 400kph.

M. Stocard tells us that there are three things he plans to do to his car: switch the brake discs for larger, more ventilated rotors to go with the huge six-pot G-Power calipers; change the exhaust for an Akrapovic system, and have the whole car wrapped in a matt carbonfibre-effect vinyl, complete with Hurricane decals. I'm glad that the latter hasn't happened yet. I love the fact there is no posturing with this car, just a set of almost fragile-looking, spindly-spoked black wheels. Like this, the Hurricane looks supremely stealthy – a supercar assassin that would mug an Enzo and disappear before its driver knew what had happened.

We set off to find some roads (local ones because of the fuel situation) for photography. Dimbleby elects to travel in the Hurricane so that he can *parlez Français*, while I follow in our

long-term Audi TT RS with all the camera gear. The outside temperature is still reading -2 as we potter through a few rustic villages. Following in the G-Power's wake is like waiting for the traffic lights to change at Santa Pod. Every time a straight appears I wonder if this will be the one where M. Stocard will open up the M5 and I know I need to be ready in case he does. Eventually, the tarmac unfurls dead-straight through some fields and he drops the 750bhp sledgehammer. The Audi is a quick car but I haven't got a hope as the black shape disappears up the road. I feel like a slightly portly terrier trying to keep up with a greyhound chasing a thrown stick. In a stretch that can't be more than half a mile long, the Hurricane must have easily breached a standard M5's 155mph limiter...

Even more extraordinary is the sound. The TT RS has a wonderfully vocal five-cylinder, but rising above its flat-chat warble is a shriek that seems to be somewhere between a wrung-out superbike and a lightly silenced F1 car.

When we stop ten minutes later I ask if we can have a look at the engine. As soon as the









standard bar a G-Power badge (pictured right) plaque. Right: Catchpole in Far right: twin and bright orange intercooler now fill the engine bay







#### 'YOU CAN ALMOST FEEL YOUR ARMS GETTING LIGHTER

gas struts hoist the bonnet skywards it becomes obvious where your money goes at G-Power. The massive orange dual-flow water-to-air intercooler grabs your attention first, but you then notice the two ASA T-316 superchargers positioned behind the headlights. Out of sight are forged pistons by Mahle along with strengthened rods and pins. The result is a staggering 50 per cent increase of 250bhp over the standard M5 V10, making 750bhp at 7800rpm. Peak torque rises by 206lb ft to 590lb ft at 5000rpm.

The acceleration figures don't seem that extraordinary at first, with 0-62mph taking 4.5sec. However, once you've overcome the initial traction issues, things get interesting, with 124mph (200kph) taking just 9.7sec and 186mph (300kph) coming up in 26sec dead. Epic stuff.

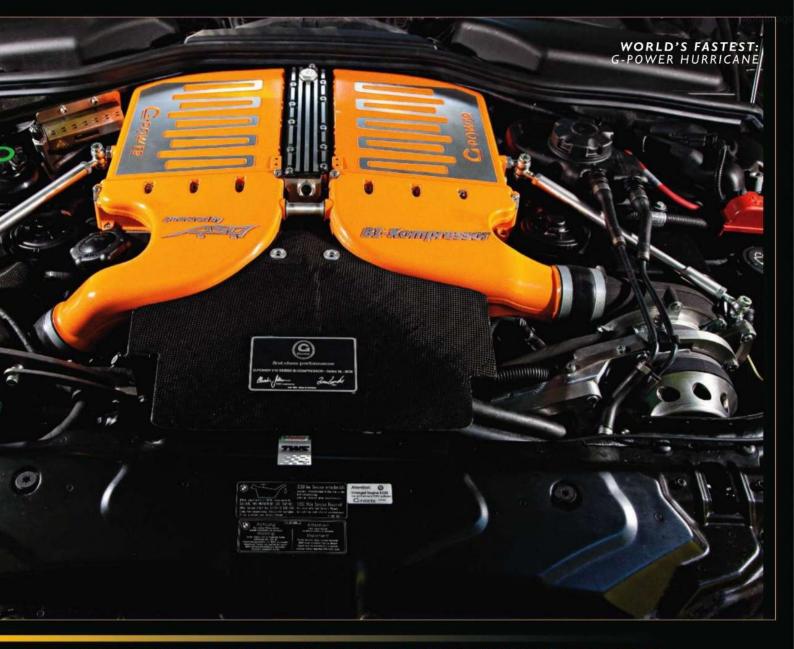
M. Stocard seems keen to stick behind the wheel of his car whilst the photos are taken, so I watch it kicking up the autumnal carpet of leaves as it slips amongst the shadows of the trees. And so the shoot progresses – until I hear them talking in French again and Nick explains that M. Stocard needs to get back to his garage. I ask Nick to politely ask if I might drive the car, as it's fairly essential for the feature. M. Stocard looks from Nick, to me, and back again, but after we repeat our assurances about insurance he slightly reluctantly takes his place in the passenger seat. Phew.

The interior of an M5 has never been the sportiest of environments, but this car, with its slightly worn leather seats and curiously highset driving position, feels utterly incongruous now I know what's under the bonnet. G-Power will do you a bespoke steering wheel but this car has the standard item. A twist of the key and the Hurricane comes to life with no more theatre than the standard car. Rather to my surprise,

M. Stocard leans over and presses the 'M' button on the steering wheel, which summons up the full works and simultaneously relaxes the traction control. The extra torque is palpable and as we pull away I squeeze the throttle pedal as if it's the tail of a sleeping tiger. Apparently the Hurricane will spin its wheels in fourth...

Short-shifting with the right-hand paddle, I try to ask M. Stocard if he has had any trouble with the transmission - it's always felt brutal in the standard car and I have my doubts about it coping with the extra shove. Unfortunately my French isn't quite up to it and after a couple of minutes of shrugging we lapse back into silence.

G-Power replaces BMW's electronic dampers with its own passive set-up and it's very impressive even on poor roads. It retains that slightly flighty M5 feeling, though, giving you a sense that it's riding the surface of the road rather than really hooking into it like some cars.



#### AS THE BLOOD IS FORCED AWAY FROM YOUR HANDS'

I know the straight is coming and so I change down a couple of gears in readiness, at which point I realise that, despite the graphic saying we're in the fastest shift mode, G-Power has wound back the gearshift times to protect the box. A village name with a red line through it appears and so, still mindful of the sleeping feline analogy, I give it as much as I dare.

Wheelspin takes hold as I try to use most of second gear. Third is better, and I grab fourth then fifth before braking in plenty of time for the corner. Blimey. It's not like the almighty hit of a turbocharged Brabus, but it's every bit as thrilling. There's a surreal feeling because the Hurricane is incredibly smooth as it revs and piles on speed. From about 3000rpm the acceleration is like the heady spike you get above 7000rpm in a 'normal' M5, but instead of it lasting just half a second it's sustained for as long as you keep your foot down. You can

almost feel your arms getting lighter as the blood is forced away from your hands on the wheel and back towards your body. Then, just as you're trying to think when to change up, the stratospheric-rpm bhp spike kicks in, unsettles both you and the rear tyres and makes the decision to flick another gear home easy.

The fact that the power is always instantly available as soon as you get on the throttle means you can mobilise the rear at pretty much any given moment, making lines through corners very... adjustable. I get one more run up through the gears, still on a road completely unsuited for high-speed work, and it doesn't get any less extraordinary the second time around. What's more, I love the fact that I've never been so fast so anonymously. When I start an international life of mystery I shall drive a G-Power Hurricane RS. But possibly not in France during a fuel shortage.

#### **SPECIFICATION**

SMG automated manual

e, M differential, DSC

on struts, coil springs, adjustable

, coil springs, adjustable dampers,

d and cross-drilled, 380mm front, 370mm

nt, 10 x 20in rear ront, 285/30 ZR20 rear

**EVO** RATING \*\*\*

# G-POVVER'S SECOND VIND

Not content with its 228mph world record, G-Power has developed an 800bhp version of its twin-supercharged M5. Henry Catchpole reports on what happened when it went testing

ou wait ages for one recordbreaking saloon...
G-Power has built another
Hurricane, even faster than the one
you've just been reading about. It's called
the RR and apparently they didn't even
really mean to break their own record when
they went testing with it...

The RS on the previous pages took the 'World's fastest saloon' title back in 2008, but in July this year the chaps from G-Power went

back to the Papenburg test track where they do a lot of the development work on their cars. They were testing a new 800bhp version of the twin-supercharged BMW V10 and decided to do some runs to see how the temperatures were stacking up at sustained high speed. Apart from the engine and a discreet bodykit, the car was completely standard, though the wheels were swapped from the usual 20in rims to smaller 19in items wrapped in Michelin Pilot Sports certified for top speeds in excess of 370kph.

G-Power had always believed the Hurricane could go faster than the original 2008 record because the conditions that day had been extremely windy. This time the weather was perfect: 14 degrees Celsius and no wind. Oh, and it was night-time. Niki Schelle, a former driver with the Suzuki rally team and now a presenter on the German television programme *Grip*, was to do the driving.

It only took a few runs and the speed was recorded by a Racelogic Driftbox (the same GPS technology that **evo** uses to record all its performance data). The result was 372.1kph, which equates to a smidgen over 231mph in old money. So that's a very ordinary-looking four-door saloon travelling 20mph faster than a Lamborghini Murciélago LP640. Schelle was reportedly pleasantly surprised by how well the car handled at over 200mph, so Bangle's designs are clearly easier on the air than they initially were on the eve.

According to G-Power's Yann Laborieux, once again they thought that it could have gone faster still but fog descended, which, understandably, hampered proceedings somewhat...

One neat side-effect of the Hurricane's new V-max is that it takes it above the quoted (but as yet unverified) top speed of 370kph for the



#### SUPERSALOON HEROES



#### **IAGUAR MK2 1959**

■ We start our gallop through the world's fastest saloons from the last six decades with the Jaguar Mk2. Its 220bhp 3.8-litre straight-six meant it could get to 60mph in 8.5 seconds and go on to an impressive 125mph, which equates to just over the 200kph mark. A fine embodiment of the Jaguar motto 'Grace, pace and space' — which explains why they were so popular with the criminals of the day as getaway cars.



#### MERCEDES 300 SEL 6.3 1968

The W109 saloon got the 6.3-litre V8 from the vast 600 limousine almost by chance after the Mercedes board heard about a development hack which had had the engine installed in it. They decided that a 250bhp, 369lb ft monster would be the perfect tonic for Mercedes' slightly staid image at the time. When it hit the roads in 1968, the SEL 6.3 could do 137mph flat-out, making it the fastest saloon of its day.



#### FORD FALCON XA GT-HO PHASE 4 1972

■ Tricky one this, because only one (or was it four...) of these homologation specials ever made it down the production line. A run of 200 was planned to make the cars eligible for the Australian Touring Car Championship but then the Australian press got wind of these '160mph Super Cars' reaching public roads. Mass hysteria ensued, the government stepped in and production ceased. It only really ever did 151mph.



#### 'A FOUR-DOOR TRAVELLING 20MPH FASTER THAN AN LP640'

Brabus EV12 'One of Ten', the current flagship car from the famous tuner from Bottrop. I ask Yann if there is much rivalry between the two companies.

'Not that we know of,' is the diplomatic but somewhat enigmatic response. 'Brabus achieved some records and so did G-Power... but since the basic vehicles and especially the basic engines are way different it would not be a fair challenge.' Read what you will into 'fair challenge'!

What G-Power wishes to leave in no doubt

is that the Hurricane will go faster still with the 800bhp engine: 'Next time our target is to go over 375kph (233mph), which theoretically is not a problem.' However, just when you're thinking that the company might be the Sergey Bubka of the world's fastest saloon record (Bubka, in case you're wondering, broke the world pole vault record 17 times but usually by no more than 1cm at a time), Yann casually lets it slip that they are sure the twin-supercharged V10 can be pushed out to 1000bhp.

The mind boggles.



#### **AMG HAMMER 1986**

■ Talking of hysterical newspaper reports, many people think the Lotus Carlton was once the fastest saloon in the world. But they're wrong. Four years before the 177mph Carlton emerged from Hethel, the 186mph Hammer had, well, hammered out of Affalterbach. The two have startlingly similar stats, the Carlton mustering 2bhp more, but 3bhp per ton less. The Hammer, however, had the one figure that really mattered.



#### **BRABUS EVI2 1999**

■ The EVI2 appeared alongside a Ferrari F40 on the fifth ever cover of evo way back in 1999. John Barker, who drove it for the mag, described it as looking 'like a taxi with tasty alloys'. The VI2 was stretched from 6.0 to 7.3 litres and produced 574bhp, while the EVI2 cost £146,875 — more than a brand new Diablo SV at the time. It had its entry in the Guinness Book of Records though, with a top speed of 206mph.



#### **BRABUS ROCKET 2006**

The Rocket's 225mph at Nardo was the record that G-Power had to beat. Its mighty 720bhp, 6.2-litre twin-turbo VI2 also creates a scarcely imaginable 973lb ft of torque, which has to be electronically limited to 81llb ft when it's mounted under the bonnet of the swoopy CLS. Of course, some people say it's swoopy because it's a rule-flouting four-door coupe, not a saloon, but we think that's a bit uncharitable.

# The Driving at very high speed requires a different mind-set. Here, seven evo writers tell what it's like to chase seriously big numbers

#### **HARRY METCALFE 200mph**

It's the hero shot everyone wants to see: the frozen moment in time when the speedo needle finally stops rotating and points to a number north of 200. With so many of today's supercars boasting top speeds well in excess of 200mph, it should be easy to achieve. But it isn't.

In the UK, the Bruntingthorpe Proving Ground gives you a sporting chance, but its two-mile runway is also used for storing cars, so just as the needle is dancing with the outer regions of the speedo dial, there's a couple of hundred parked BMWs blurring past your windows. Not ideal.

No, Europe is the place to go, but you still need to be in the right car. Choosing a Bugatti Veyron makes life a whole lot easier. This car charges past 200 with the same sort of ease that a Golf GTI hits the UK legal limit. I can remember braking in a Veyron, glancing down at the tiny speedo and being shocked to see I was still travelling faster than 200mph...

It's very different in my Zonda (pic 1). Posting 180mph is easy, but beyond that every additional mile-per-hour takes an age. Which isn't good if you've got a vivid imagination. At 190 you begin scanning the road for cars up ahead, at 197 all you

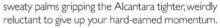


want to do is lift, but the demon on your shoulder won't let you. 198... 199... This is like pulling teeth. Finally, 200mph appears, you hear a shutter click and you can let out a huge sigh of relief.

#### **HENRY CATCHPOLE 190mph**

It can feel lonely in the cool of the night, but the appearance of 'company' in the form of glowing red tail-lights in the distance ahead isn't necessarily welcome. The burning dots raise the heart-rate and trigger rapid mental calculations as you count their number, estimate their dosing speed and try to work out what they're attached to.

If it's a solitary lumbering lorry you can be pretty sure it's going to stay put in the inside lane - just remember to be ready for the slight turbulence as you pass. Any more than four lights and you're best



Night-time usually means it's quieter on the autobahns. The darkness conceals dangers and so stops you worrying about them, but it can also freeze the breath in your lungs when a road surface you can't see changes unexpectedly. As you push beyond 170mph, the pale headlight beams that are trying to pierce the blackness become more and more useless because you are peering further and further beyond their reaches. Your other senses are heightened - the wind noise becomes louder, you feel every bump in the road.

My personal best is 190mph – once in a Corvette Z06 (pic 2) on the way back from Sweden and once travelling back from Austria in a GT3 RS – but I bet an extra 10mph on a warm, sunny airfield would be a walk in the park by comparison.

#### NICK TROTT 191mph

■ Bright red Ferrari Enzo, driving within the speed limits through a small French village near Route Napoleon. Radar gun ahead, cops looking surly and upset. Huh? Pull over?

'Your car?' they ask (pic 3). My French isn't great so I motion like a demented drummer and repeat: 'Pink Floyd! Pink Floyd!' They get the message. This is Nick Mason's car.

Still not sure if I'm nicked, though. They inspect the paperwork (in order) and check the age on my licence. I look younger than I am; they are suspicious that this fresh-faced youngster is driving the fastest and most expensive Ferrari ever. I show them a copy of the magazine I'm working for. They nod. But I'm still worried – I saw 191mph on the Enzo's speedo on a quiet road just ten minutes ago and I'm praying I didn't blast past a Kojak with a Kodak.

I motion to the passenger seat. Want a ride?"









'I ran out of road at 214mph, still accelerating, but the diff oil temperature gauge was off the clock...'

One of them jumps in. I head into the hills, driving sensibly. The cop isn't happy. He wants me to drive faster. Thoughts of entrapment cross my mind, but he repeats the request: Faster: Faster: I loosen the traction control.

For the next 15 minutes I drive faster than I've ever driven in my life. In an Enzo. With a cop sat next to me. He does not smile. He does not show any emotion. When he steps out, he turns down the corner of his mouth and nods in that classically Gallic appreciative way. I'm not nicked. He just wanted a ride in that car. Made me sweat for it, though.

#### **ROGER GREEN 214mph**

Four times I've seen the other side of 200mph. Once on the road in a Carrera GT (a GPS-verified 20 Imph on an autobahn), twice in 9ff creations

(221 mph at Bruntingthorpe in a GT9 and 243 mph in a GTurbo 1200 at Papenburg, Germany), but it was a run in the only non-Porsche-based machine of the quartet that was by far the most chilling.

An Opel Omega (pic 4) was never meant to be fitted with a 1000bhp supercharged Lexus V8, yet that was exactly what had been done by one slightly unhinged farmer from Norway. Ole Ringstad was his name and, after running the car up to 200mph in his socks (it gave him more pedal feel apparently) with three passengers aboard, he handed the thing over to me to discover its top speed while he put his shoes back on.

The Papenburg test track has two heavily banked corners linked by a pair of 2.5-mile straights. I was attacking the banking at 190mph, and although the car was stable, the centrifugal force was

compressing me hard into the seat. Could a set of Michelin Pilot Sports really cope with this level of stress? And what happens to an Omega at these speeds? It wasn't designed for this...

As the corner levelled out, the car had a tendency to jink towards the barrier, requiring a quick and precise correction. Driving at big speeds on a test track is relatively easy; it's reacting to a problem that's hard. I ran out of road at 214mph with the car still accelerating, but the gauge displaying the diff oil temperature was off the clock, showing over 300 degrees C. It was time to call it a day.

#### RICHARD MEADEN 160mph (for 30 miles)

Psst! Want to know a secret? I don't actually like driving fast. Well, not in a straight line, anyway. There's something rather unnerving about it, basically

#### WORLD'S FASTEST: HIGH-SPEED YARNS

waiting for a component to pop, break or fall off. Perhaps that's why I'm one of the members of the **evo** team not to have genuinely breached 200mph.

That's not to say I haven't had a few high-velocity adventures. I can vividly remember hitting an indicated 20 I mph in a Porsche 911 Turbo on the way home from the Nürburgring (in reality, it was probably less). I can also recall doing 180 on an Italian autostrada in an early Lamborghini Murciélago with Peter Tomalin alongside me.

But the most memorable foot-to-the-floor escapade was 1000 miles of hoonage through the Australian Outback in a 6-litre Monaro VXR (pic 5). Photographer Andy Morgan and I were tasked with driving from Alice Springs in the centre of Australia to Darwin on the northern coast, using the Stuart Highway Back in 2005 it was one of the few roads on earth without a speed limit (no more, alas). I can still feel the strange tingle in my stomach as we powered away from petrol stations, accelerating from nought to V-max and then staying there for as long as we fancied.

Thanks to the extreme heat – upwards of 46 degrees C – and weak 91-octane fuel we never troubled the Monaro's claimed 180mph. Still, the big Chevy V8 pulled us to 165mph and kept us there, often for absurd periods of time. I think our record was a full 11 minutes at 160mph, which equates to a straight of almost 30 miles in length. Slowing to 125mph for the kink at the end of it felt like we'd stopped. Surreal.

#### **OLLIE MARRIAGE 178mph**

■ Fastest I've ever driven? 215mph. In a TVR Tuscan S (pic 6). At least that's what it said on the speedo...

Why you can never trust the speedo was just one of many lessons I learned at Bruntingthorpe about eight or nine years ago when the mag I was working for gathered together a bunch of very quick cars, including a Caterham R500 and that TVR.

In the Caterham I discovered the importance of aerodynamics. The 230bhp R500 struggled to 145mph, but it was what happened when I lifted my right foot that shocked me. The square, upright front end instantly became the world's most effective airbrake, slowing the car so quickly that it felt like I'd thrown a parachute out the back.

The Tuscan S was much more slippery – in more ways than one. I've since had it confirmed that this particular car wasn't using the standard 390bhp 3.6-litre straight six, but a 'special' one. Which



## 'We accelerated from nought to V-max then stayed there for as long as we fancied'



explains why it idled so lumpily. And why it posted 0-60 and 0-100mph times of 3.8 and 8.1 sec.

I50mph was no trouble, nor I60, nor I70. In fact I'd swear the needle seemed to pick up speed as it arced round past I80, I90 and then, magically, 200. My first 200mph experience! Only it wasn't. The laptop being cradled by my passenger told the truth: I71mph. Quite a frantic I71mph it must be said, as the nose started wandering. Be brave, I told myself, just keep your toe in and see if the Tuscan can muscle its way to I80mph.

It never got there. Not because I ran out of room,

or even because I chickened out, but because at I78mph I went deaf. That was when the air pressure ripped the roof panel out...

#### **CHRIS HARRIS 207mph**

■ There isn't one 200mph, there are actually two very different 200mphs. The first is the sanitised test-track 200mph. The one where you take something with the necessary horsepower and slipperiness and attempt to extract the double ton. Even in the safe confines of a long runway, 200mph gets your attention because you can't avoid operating in the conditional tense — the 'what if?' scenario. Hearing becomes the primary faculty as you develop an unerring capacity to think you've spotted a strange noise. But at 200mph a Murciélago is nothing more than a collection of noises: worrying gnashes, oscillations and graunches.

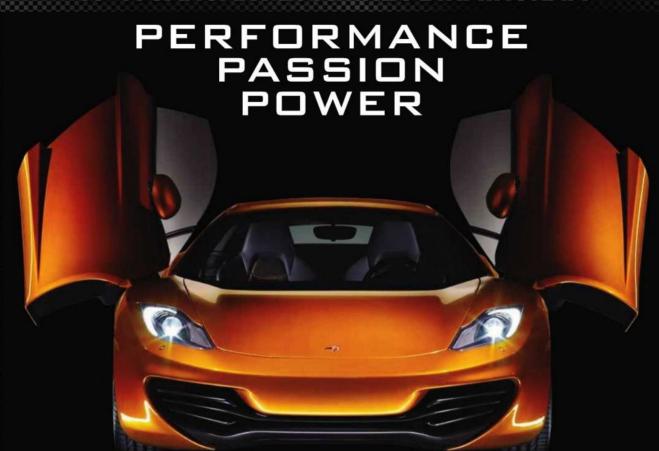
The other 200mph is, for me, the proper 200mph. The street 200mph. The one where you choose your moment, squeeze the pedal and aim to travel at the speed first glorified by the Ferrari F40. Speed in a straight line isn't that impressive, but it is addictive. I drove a GT2 RS back from a shoot to the factory recently and did 207mph (pic 7). It should feel ordinary by now because I do it quite a lot these days, but it's the wind-down from the attack that gets me every time: it's the speed equivalent of the post-coital fag — the moment to grin and savour.

But even if you get beyond 200mph on a regular basis, the Veyron remains a car apart from all others. Back in 2006 I was shooting a story for *Autocar* near the Bugatti factory. At around 2am on the A5 near Karlsruhe, Germany, we did 227mph – the Veyron felt more stable and less stressed than a Murciélago at 190mph. To be able to do that, legally, on a public road is what the thrill of driving is all about.



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he Lamborghini Blancpain Super Trofeo is the fastest one-make race series in the world. So says Lamborghini, and as Bugatti has yet to launch a £1bn Veyron Trophy, and nobody from the Porsche Supercup or Ferrari 430 Challenge has piped up, it must be true.

What's absolutely certain is that it's an incredible thrill from behind the wheel of one of the 562bhp, four-wheel-drive Gallardos,

especially around Spa-Francorchamps, one of the world's greatest and fastest race circuits. In the dry, the V10 Lambo laps the 4.352 miles at an average speed of well over 100mph, hitting a peak of 165mph! Even in the wet it averages over 90mph...

This is the story of what happened when Roger Green and John Barker took on the series regulars – and each other – at the classic Belgian track. They joined the action in VIP car no. 2, engineered by Lamborghini's Pierluigi 'call me PG' Barbieri. The glamorous Super Trofeo series runs a two-driver pro-am format (one of the pros is front-running GT1 driver Peter Cox), though after a brief chat, Green and Barker decided team **evo** was more am-am. Inevitably, though, just below the surface there was an unspoken tension simmering over who would be faster. The weekend's three races (each 40min, with a set pit-stop window and minimum pit time for the changeover) would provide an answer, of sorts...









#### Thursday 13:05

Free practice

RG: Our meticulously planned weekend has gone off script before either of us has even driven the car. JB was due to go out first, but apparently his radio earplugs aren't working and he's rushed off to find a man who can fix them. I reckon he's had a bout of pre-race nerves and doesn't want to be the one who stuffs the car before the other driver has had a go...

The green light blinks on at the end of the pitlane and I trundle out in the midst of an exotic traffic queue. I find a little space and open the taps. Wow! It's like these cars were made for this magnificent circuit. The Lambo V10 can really cut loose here, although it's unnerving just how fast you rush up to the epic corners Eau Rouge and Blanchiment.

On each lap I push a little harder until 'PG' crackles in my ears that it's time to come in and hand over to John.

JB: The only other time I've raced here was in the Caterham CSR series a few vears ago. The Lambo feels every bit as good, but more of an event, more momentous. It has a great deal more momentum, too, as I discover when I try to take Eau Rouge in fifth. Well, the Caterham could... No harm done, though, at least not to the car. We end up 9th out of 12, on a best of 2.34.197 (by me, ahem), which is an average speed of 107mph.









#### 18:10 Qualifying

JB: It's absolutely lashed it down during the afternoon and it's still wet as we're let out for qualifying. Annoyingly, my radio isn't working again. I tread gingerly at first but I soon discover that the grip on the Pirelli wets is so good that the braking points are not far off those in the dry. Out of La Source on one lap the rears spin up and point me at the wall, but it's quickly gathered up without harm. It's no Audi Quattro, this Gallardo, but by the same token I can't imagine pushing a simple rear-drive car with nearly 600bhp as hard. Now,

RG: Ten minutes into the session, I clamp my helmet on. JB will be in soon and putting all this clobber on shuts out most

if only I can put together a clean lap...

of the outside world. It allows you to begin to focus on the job in hand, to run the circuit through in your mind one last time. The track is drying very slowly, so I need to learn where the grip is and how far I can push, building up to a maximum-attack lap at the end of the session. The earplugs muffle everything except the staccato thump-thump, thump-thump of blood pumping through my veins.

18:25

JB: Driving in the wet is an utterly absorbing challenge: getting on the power as early as possible, getting on the brakes as late as possible and feeling for the maximum corner speed – tricky through three-figure Blanchimont. I haven't seen a board yet but I reckon I've nailed a good one. Might as well give Rog a go.

18:25

RG: What the hell's going on? Where's bloody Barker? The team have been holding a large 'IN' board over the pit wall for ten minutes now, but he just keeps driving by. Is this a premeditated plan to hog the car? We're supposed to be a team! With less than four minutes to go he appears in the pitlane and is dragged out. I bundle in and shoot off to try and complete the out lap before the chequered flag falls. I make it, but my one flying lap is slower than JB's as I'm still trying to get my head around how unbelievably late you can brake. I vow to get my own back....

18:50

JB: Well, how was I supposed to see the board when it was after the crucial brake point for La Source? I'm not sure

Top: the pack streams through the fast and tricky turns of Eau Rouge. Top right: the Barker/Green car charges up the hill to the highest part of the track. Left: rare sighting of Green in the driving seat; interior of the Super Trofeo cars is stripped out and a roll cage and race bucket added; power is 562bhp – the same as the Superleggera road car. Right, from left to right: Barker studies the timing sheets from qualifying; the rolling start for race one; into the pits for a driver change



even PG believed the radio was kaput. At least I did get a good lap in, which means Rog will start from fifth tomorrow, surrounded by the slower drivers from all the other pairings.

20:00

JB: Dinner at the hotel with Lamborghini people. I've arranged to meet Rog in reception. I'm late, for a laugh. Blimey, he's a bit sensitive. Me? I take the frequent ribbing I get over dinner in good humour.









#### Friday 11:15 Race 1

RG: One of the most amazing elements of racing one of these cars is the rolling starts. I'm surrounded by Gallardos as we ease onto the start/finish straight in tight formation. The red lights go out and 6840bhp is unleashed. I defend the inside, hugging the pit wall. The tactic works and I emerge from La Source in third as we barrel down to Eau Rouge on cold tyres. We all make it through, but I have to get defensive at the top of the hill. I lose a place at Pouhon, but soon gain one back.

11:30

JB: Rog is on fire. Not literally, thank heavens. We could be on for a top five finish, maybe more. Depends how good the pro drivers are, I guess; the pit stop window is open and some of the 'gentleman' racers are coming in.

#### 11:35



RG: It's hectic stuff and I seem to spend most of my laps fending off a gaggle of cars that look like they might drive over me if I keep this up for much longer. One nips past just before I get the call to head to the pits. I think about having a 'radio malfunction', but decide to come in.

#### 1.1.: 31

JB: The thing about going second is that your teammate has had the best of the tyres and brakes. No. 2 feels very

loose, and my first lap is a learning lap, figuring out what's left. It might not be at its best but bloody hell this is a great car, and a brilliant track. I love the way the Gallardo settles into the camber of the right-hander that starts the downhill run from Les Combes. Then I get too keen at the next corner, the horridly long and tight Bruxelles, and run out of opposite lock. I'm spinning towards the barrier. 'Please, no!' I scream inside my head. Phew... so close. Then in the closing seconds I spin again, turning the car around. Cock. Turns out we were way ahead of the next car anyhow, and would have finished sixth with or without the spin.

#### 16:30 Race 2

JB: I'm never sure how much good weaving on the warm-up lap does. Makes me queasy but I feel obliged.

The buzz of the rolling start is almost literally that, the pack of warbling V10s almost a physical force. They're four-abreast into La Source hairpin, and I'm up to fifth place on the exit – it's nearly fourth, but I'm rudely chopped on the run down to Eau Rouge.

On the upslope I'm gaining on the car in front when his brake lights flicker and he jinks... revealing the green no. 63 Gallardo broadside, smoke wreathing from its slicks. Yikes! Left it is, over the low kerb and rumble ridges. Drama over, I settle into a rhythm. This time, my radio is working. I hand Rog a car in good nick and in third place. Wonder what the trophies look like?

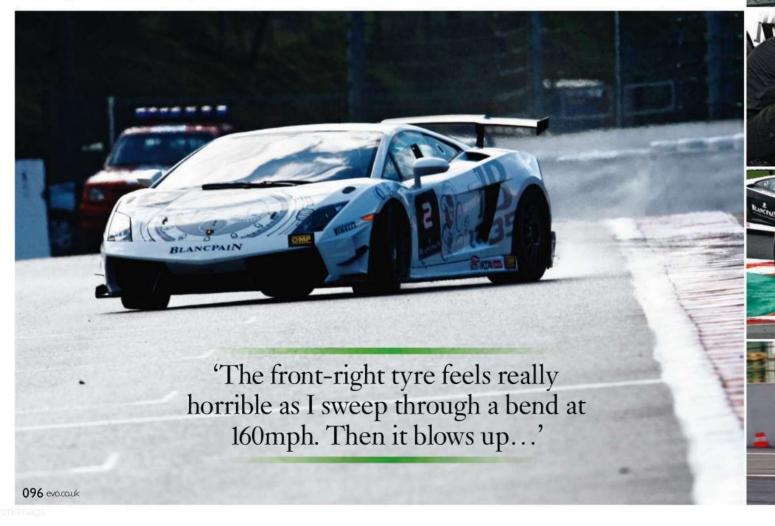


#### 16:50

RG: My turn. First time through
Eau Rouge the tyres seem past their
best, but at Les Combes something's
definitely amiss. When I brake I have to steer
left to keep going straight. It's as if only one rear
brake is working. The front-right is grumbling
too. A couple of laps later that tyre feels really
horrible as I sweep through Blanchimont
at 160mph. Then, as I come onto the start/
finish straight, it blows up. We're out, but my
disappointment is tempered by the thought that
it could have failed one corner earlier...

#### Saturday 08:40

RG: Turns out we had a brake fluid leak at the rear yesterday, while the tyre failure was probably caused by JB having to run off the course on lap one. As we arrive back at the track for our third and final race it begins to rain, and although it stops soon enough, the race will start in conditions similar to those in qualifying. Due to my curtailed running in the second race, I was due to get the nod to start this one, but hogger Barker's got the knowledge of the track in these conditions, so he'll start. He'd better not balls this up!



#### WORLD'S FASTEST ONE-MAKE RACE SERIES











#### 10:00 Race 3

JB: I'm not too bothered to be starting tenth; at least there's plenty to go at! Four laps in, I've latched on to the

back of what appears to be a six-car scrap for the lead. And I mean a scrap. There's all sorts of stuff coming back in the slipstream as the cars in front rub and bump, push and shove and generally slow each other down. I'm not tempted to get stuck in, though. No. 2 doesn't feel quite as sweet as yesterday, and besides, I reckon there'll be some casualties soon.

And there are. At La Source, five-into-one doesn't go. The pack splits like the Red Arrows and I drive through the middle, picking up three places — and a light tap on the rear wheel from the green Gallardo. Two laps later, with one to go before handing over, I'm turning into the bus-stop chicane when there's a massive impact. I'm suddenly going straight on again rather than right. The edge of the bonnet is at a jaunty, crumpled angle. Stunned and seeing stars, I have no idea what just happened but I know our race is over. Eventually a marshal opens the door and I tumble out.

#### 10:17



RG: What's happened? I'm standing in the pitlane, helmet on, ready to go again. The boys are about to call JB in and I can see them on the wall looking bemused. Where's John?

#### 10:19

JB: I look back and see no. 2 is destroyed down the right-hand side. The back end of the green car is

stoved in. We were second. I feel like crying. A spectator tells me that the green car lost it on the brakes from four lengths back and hit me in the side as I got to the apex.

#### 1.1:30

JB: The post-mortem debate favours the following sequence of events. It might have been the earlier tap on the

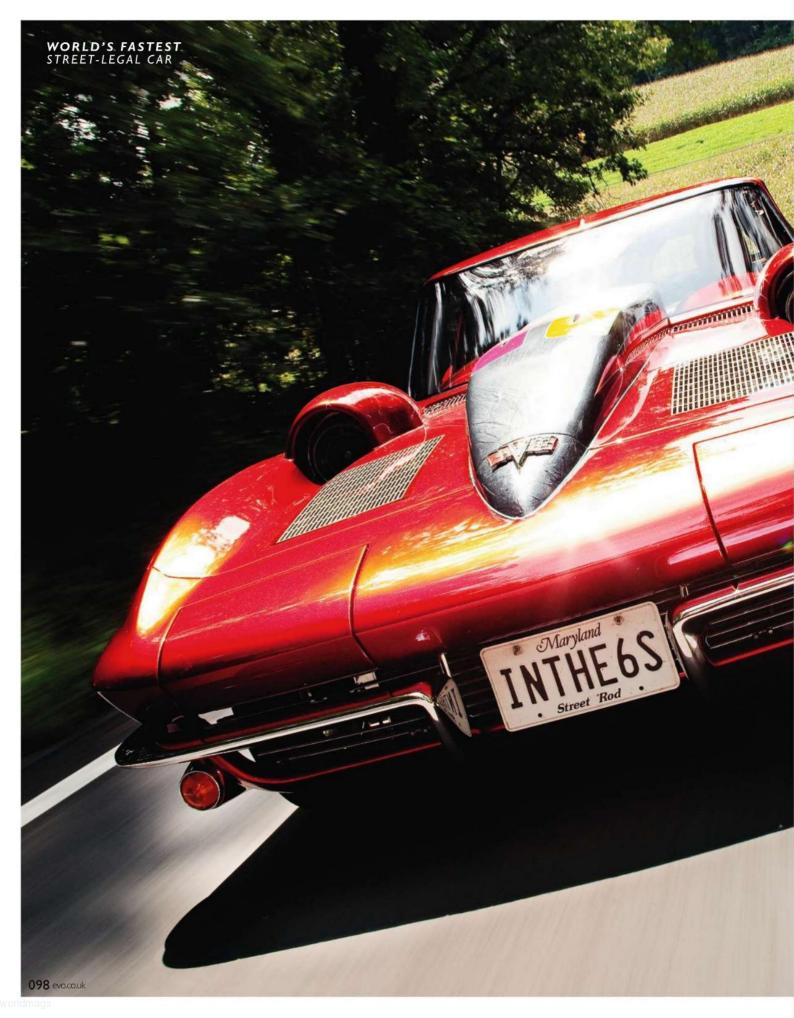
rear wheel that did it, because that could have fractured the front-right wishbone of the green car, which failed under braking, smashed the disc and sent the car into a spin. Rog thinks I did it on purpose so he couldn't get any more time at the wheel. He's joking. I think.

We're both gutted, really, partly for the result we might have had but mostly for the damage to the cars. The world's fastest one-make racer is a great car and, despite our problems, it has given us a fantastic experience on one of the world's greatest race tracks. I offer to drive us back to the Channel Tunnel but Rog declines. A bit testily, I reckon...

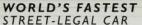


Opposite above: Barker (seated) and Green talk tactics.
Opposite below: handling goes awry as Rog takes his turn in race two. Left, from the top: puncture on the front-right corner is just half of the problem; Green is forced to retire; fitting fresh rubber; equally matched cars ensure the racing is close; damp conditions aren't too much trouble for the 4wd Gallardo. Above: onboard video shows Barker's hands being thrown clear of the steering wheel as his car is hit in the side (visit evo.co.uk to see this moment and more action from the weekend). Right: the resulting damage











've been labelled the automotive devil by some people. They think I bought a good-condition splitwindow classic Corvette and then savagely sliced it up to make a race car. I did do that once, but it was 1980. The car was 17 years old at that time. Nobody envisaged the crazy money they would be making in 2010!'

Rod Saboury raises his eyebrows and smiles with a warm, infectious grin. He certainly doesn't seem like Satan. He appears a friendly, kind-hearted and very focused 59-year-old individual who lives in a quiet agricultural corner of Maryland, USA.

'Heck,' he continues, 'if I had that kind of

foresight I'd have stockpiled a field full of early Corvettes and Hemi-powered muscle cars, sold them at Barrett-Jackson auctions in the last two years and then *really* gone racing.'

'The Vette shudders out of the garage and onto tarmac.

He tugs on the chain to open the shutter doors and reveal the cleanest garage I've ever seen. Lacquered floors, curtains over the windows and a workbench tidier than most secretaries' desks. Thirty-odd years' worth of trophies and magazine cuttings line the walls. At the back, a Corvette-themed stained-glass window frames a view of lush green fields. This is no workshop, this is a chapel for fast Chevy worship.

'People think that because I've built the world's fastest street car I'm some sort of millionaire,' says Rod. 'I run a roofing company with one employee – me – one toolbox and one pick-up truck. If I go racing, then I'm not working or earning money.'

Rod is a matter-of-fact bloke. He takes the time to talk to everyone, and never ceases to gush enthusiasm about the flawlessly airbrushed race car under his elbow. 'She's got a few stone-chips on the front end now, but I like that. It proves to people it gets used on the street.' He gestures for me to climb in. Time to discover what a car that does 0-60mph in less than a second with DOT-approved tyres, four gearlevers and electric windows feels like.

Nestling inside the cockpit, it hits you how detailed this creation is. Rod may wring all

This row, from far left: Mickey
Thompson tyres are approved for road use; CO2
bottle deploys the parachutes and controls the turbos' boost; 88mm turbos are usually found on trucks; levers for the Lenco gear-box; timing slip shows just what this 2400bhp Vette is capable of







#### Out on the neighbourhood roads it feels properly hoodlum'

2400bhp out of it on the strip and cruise it on the street, but this Sting Ray triples as a show car. There's a centre console to house the four-lever Lenco gearshifter. There are two drinks holders. The intricate exterior paint is mirrored inside on the door panels. The doors opening triggers a conventional courtesy light.

Saboury adores his rods and street weapons. He's built 18 of them so far. 'I average one project every two years,' he says, 'and I've been building and racing cars since 1968.' Mostly these have been early Corvettes, which it's fair to say he has a bit of a fetish for. What you are staring at here is not some replica dragster bodyshell – this is a real 1963.

Rod wanted this Vette to be just so, which

required time, patience and calculated decisions. From start to finish the project took five years, the first two of which were spent drawing up schematics and studying the drag race rulebook. Finding a suitable split-window donor also took two years. 'This shell turned up on a wooden pallet with the VIN tags,' Rod says, caressing its swooping roofline. 'To anyone else it was next to useless because someone had chopped all the fibreglass floors out, not to mention a number of repair sections.'

It had been cannibalised and left for dead, but in Rod's eyes it was perfect for the basis of his ultimate drag-street fusion. He handed over \$800 for the shell – complete with flip-up headlamps – and never looked back.

Flicking the fuel-pump switch overhead kicks off the starting drill. Within seconds the Vette fires into life and shudders out of the garage and onto tarmac. Out on the neighbourhood roads it feels properly hoodlum. The V8 engine's twin turbos make it quieter than normally aspirated or supercharged race cars, but it's still near impossible to have an audible conversation inside.

I torque down my harnesses and stare out through the Lexan screen over the bonnet bulge and turbo nostrils. If he didn't have to conform to the NHRA drag competition rulebook, which says the screen has to be bolted in and must not be glass in a car capable of covering the quarter-mile in the sixes,

#### THE GEARBOX



The Lenco is a manual gearbox specifically designed to endure full-bore, high-power acceleration on the quartermile strip. The 'box itself uses planetary gears, so it looks like a tiered wedding cake turned horizontal. Each tier is a gear and is operated by a separate lever. Why? Because they are damn strong and can be easily serviced or repaired trackside by unbolting individual gears.

On the street, the Lenco is a big commitment. Come to a halt and you must push all the levers forward before selecting first. There's a conventional clutch, but you only use it for launch and reverse; the other gears get slammed home.



#### WORLD'S FASTEST STREET-LEGAL CAR



Above: front suspension uses 'Strange MacPherson struts. Below: show-car finish extends to the door hinges



Rod would have retained the standard glass windscreen and wipers.

Making the 20-mile trip through Carroll County and into the small town of Manchester doesn't warrant parachute-assisted braking, so the pair of 'chutes have been left at home. Behind the passenger seat still lives the big CO2 bottle that not only deploys the 'chutes high into clean air but also controls the three-stage boost of both turbos. That's the thing about this car – every nook and cranny is crammed with innovation.

It is surprising how compliant the car feels on twisty roads and over potholes. With a blindfold on and earplugs stuffed in, you would think this was just a fairly sporty production car. Why? Because Rod felt regular drag-style four-link rear suspension set-ups are too rolypoly off the track. Instead he went for a neat street-rod three-link system with an anti-roll bar integrated into the tubular chassis.

Between the carbonfibre rear-wheel tubs sits a tank for the intercooler. There is no spare room up front for anything besides a radiator (big enough to keep 2400 horses cool during the world's biggest cruise in Detroit), so Rod came up with a plan: sitting the 12-gallon water tank over the back axle would aid traction. That was easy. Getting water to and from the intercooler? A bit more complicated. But not for Rod, who designed the chassis tubes to double as water pipes. A submersible marine bilge pump circulates the wet stuff from within.

There's almost a Lotus approach to this. If Colin Chapman made drag cars...

But now for the biggest innovation. That V8 barking orders beneath the bonnet is a small-block, a mere 400 cubic inches (6554cc). The Chevy motor may be comparatively small but it's viciously potent, sharing an immaculately detailed engine bay with two mirror-polished 88mm turbos (normally seen on heavy diesel trucks), specially adapted 'Little Chief' big-block heads and electronic fuel injection. No nitrous. No slicks. No voodoo. On the street, Rod's small-block drinks regular forecourt petrol. Lately on the track, he's been feeding it 117-RON race potion.

Sellotaped to the driver's quarter window is a small but vital piece of paper. It's a timing slip to remind passengers of what they're sitting inside. On September 5, 2009, Rod clinched his fastest run ever – the one to warrant that licence plate. With a reaction time of 0.54sec, the Vette hooked up and crossed the quartermile line doing 209.96mph, having taken just 6.75 seconds.

The thing was already doing 168mph by the 1/8th-mile marker, which took just 4.42sec. The 60ft marker was reached in 1.13sec. These are not numbers normally associated with a car that can sit in heavy commuter traffic for hours without smouldering under the collar. But then if it was easy to build a street-legal six-second car, more people would do it.

The best bit is that Rod's Michigan-based

#### 'With over double the power of a Veyron, here is a machine





#### vastly more rapid than hypercar drivers can even comprehend'

engine builder, Mike Moran, reckons the car will do 230mph. The engine has never been raced with more than 25psi of boost, yet the turbos and motor have been bolted together to withstand 40psi. It's just down to Rod to keep control, because over 200mph the front end reportedly 'gets dicey and loose'. Hardly surprising when you consider that back in the '60s, when Sting Rays were new and being road-raced, drivers said they couldn't go above 150 without the front end getting airborne...

The Autometer dials tell Rod that the engine is up to working temperature. On a quiet, open stretch of asphalt (green fields either side in case something goes pear-shaped) he slaps one of the chromed Lenco shift levers and shows me what a half-inch squirt of the loud pedal feels like. Even with the turbo boost set at half what he'd race with, the Vette barks – the side-exit pipes are like someone blasting a shipping horn into your ear – and blats forward faster than two blinks.

Not that I blinked. My brain momentarily stopped passing information to my eyelids. I've been clouted back into the Corvette's low-back carbon chair – an instant reminder (if you needed it) that here is a machine vastly more

Left: twin-turbo
6.6-litre V8 was built
by Moran Racing
Engines; turbos run
at 12psi as the car is
launched, then switch
to 25psi, although
even higher boost
levels are possible...
Right: Rod and his
wife Tina outside the
immaculate garage in
which the Vette lives



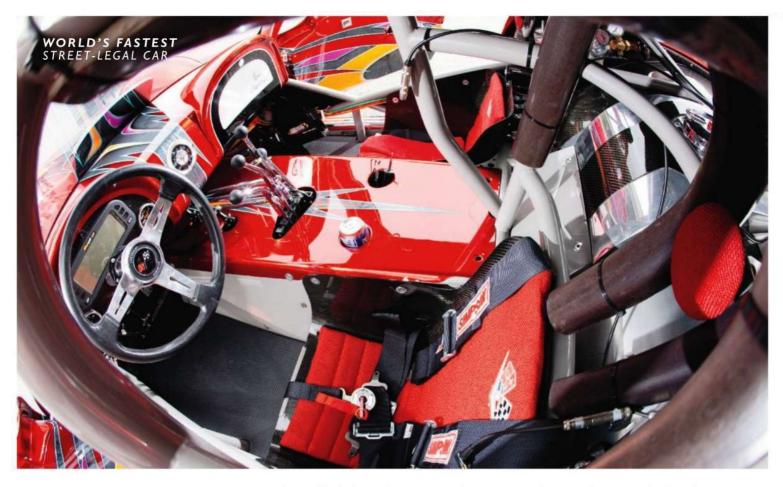
rapid than most hypercar drivers can even comprehend. With over double the horsepower of a Veyron, we would beat the Bugatti over the 1320-foot drag strip by some four seconds.

We run out of straight road in three seconds, if that. The throttle was dabbed at 30mph and we probably ended up doing four times that. What I know for certain is that Rod only yanked one of the Lenco levers. In that short time you mentally weigh up the sensation of speed, the sound of ravenous turbos and the fact that this car has never been near a Euro NCAP office. There wasn't the feeling of raw fear, more sheer amazement at what one man

has done to the horseless carriage concept.

Rod taps my shoulder: 'Remember, this is not a street car that you can race,' he bellows. 'It is a race car that you can drive on the street!' Normal people don't dial their brains into building a safe, handsome, durable street dragster, but then normal people don't have heart attacks working alone on a barn roof and climb down the ladder mid-attack to get themselves to hospital. Make no mistake, Saboury is hardcore.

The biggest headache during the build was the bit most folks don't notice, but something that meant everything to the owner: modifying



the original bodyshell. 'I'm really particular about these Corvettes,' Rod reflects. 'I've had pictures of them on my bedroom wall since I was ten. It had to look right."

The problem was the wheelbase. 'The original car is a 98-inch wheelbase, which is too short for trying to go over 200 in,' Rod explains. 'OK, you can do it, but the back tyres are trying to push the front of the car out the way. I felt like if I could get the car to 110 inches then it would feel safe. Then I thought how am I going to add a foot to this thing and try to keep it in proportion?' Cue longtime friend and fibreglass guru Frank Morawski for an ambitious massage

that would take him and an assistant eight months of eight-hour days to complete.

The Sting Ray's subtle stretch exercise began with eight pie cuts from the roof (above the split windows, near the fake vents) and four inches being added. Two inches were added in the rear arches, and then six inches in the back portion of the front wings.

This left the front end, the doors, the rear and the majority of the side silhouette stocklooking. Obviously the carbonfibre bonnet is longer, and it was Rod's decision to show off those huge turbos, although he's quick to point out that it's a misconception that turbos needs

to stick out into the air to work efficiently: 'These will suck wherever they are.' The rear of the car was widened by four inches and a luggage hatch was also added, which people often mistake for being original. This provides Rod access to the battery, fire extinguisher system and intercooler tank.

Pedestrians and other motorists are finding the sight of the Corvette difficult to compute. I remembered what Rod said before we left the farmland on which he grew up: 'I set out going for the effect that if you see me coming towards you on the street, it looks as if a Pro Mod car made the wrong turn off the drag strip. That's what I wanted to achieve.' It's safe to say he has achieved that. Sitting, shuddering at the lights outside the local police station feels awesome.

In four years Rod has put over 3500 road/ race miles on the engine without hiccups (bar a faulty alternator on a cruise once) and has won a top-ten award at the SEMA aftermarket performance show. So is this his final project? 'I think so,' says Rod. 'I mean, where do I go from here? How much faster do I want to go? My father used to say, "Don't brag about something, boy, until you do it first." I never said this was going to run six seconds, but I built it to be a six-second car. That goal has been achieved. If you get greedy you could get unlucky, and I can't afford to crash.'

Rod won't be resting on his laurels, though. 'I'll just keep tweaking the car,' he says. 'I had the chassis made with brackets for air-con and I've found an alloy Sanyo compressor that only uses 3hp. I might try doing a six-second pass with the AC on ... '

#### SPECIFICATIONS

Engine V8, 6554cc, twin-turbo

Location Front, longitudinal

Cylinder block Dart/Moran Racing Engines custom-made let aluminium Chevrolet small block

Cylinder head Dart Little Chief big-block billet alloy heads

Power 2400bhp @ n/a rpm

Transmission Lenco four-speed manual gearbox, AFT triple-disc clutch, rear-wheel drive, traction control

Front suspension MacPherson struts, coil springs, dampers Rear suspension Street-rod three-link, coil springs,

dampers, anti-roll bar integrated in chassis

Brakes Discs front and rear

Wheels 15in American Racing front, 15in custom-made rear Tyres 24/5/15 front, 33/22/15 rear Mickey Thompson.

reet-legal radials

Weight 1351kg (including driver) Power-to-weight 1805bhp/ton

Standing quarter-mile 6.75sec @ 209.96mph

(on street-legal tyres) Top speed 230mph+ (est)



Top: cabin is equipped with a roll-cage, carbon seats, harnesses and two cupholders. Above: on the street

# ...and if you thought that was fast... This 750bhp Cosworth 2010 F1 engine is the least powerful of Bloodhound's three motors. Its job? To pump 50kg of fuel every second





Pushing the land speed record beyond 1000mph requires some extraordinary engineering solutions, as Ollie Marriage discovered when he took a closer look at Bloodhound SSC...

■ This six-inch-bore rocket blew apart during testing in the Mojave Desert. Apparently the explosion was massive. Bloodhound's hybrid rocket will be three times this size, with a diameter of 18in (45cm) and a length of 3.78m. Designed by 26-year-old British rocket engineer Daniel Jubb, it contains 1130kg of rubber propellant that is burned away by the hydrogen peroxide oxidiser. The largest hybrid rocket ever designed in Europe, it will deliver 27,500lb of thrust.

Oddly, the rocket is mounted slightly nosedown in the car. 'Computer tests showed the plume from the rocket could dig a trench in the ground, so we've gone for a two-degree upward angle to combat that,' explains Mark Chapman, Bloodhound's chief engineer.

#### JET ENGINE

■ 'These are the only three Eurojet EJ200 engines that aren't owned by a national government,' reveals chief engineer Mark Chapman, 'so we do have to be a bit sensitive about them because we don't want others to work out what the Eurofighter Typhoon might be capable of.' You get the feeling that simply getting hold of one of these state-of-the-art jets would be an achievement, let alone three.

They're on loan from the RAF. 'One has more life left in it than the others - about 22 hours so that's the one we'll be using for the actual runs,' says Chapman, 'but if we'd had to buy a new one, it would have cost £4.5million...

How much thrust does it provide? 13,500lb,

or 20,000lb with the afterburner lit. Needless to say, the 1.5-ton jet's fuel consumption does increase with the reheat on, from 1.3kg per second to 4.3kg. Mind you, that's a tenth of what the rocket burns through in the same time...

The jet engine will chiefly be used to get Bloodhound off the line and up to 300mph, although unlike a road car, Bloodhound isn't at its most accelerative at low speeds. '0-100mph will take about 15sec,' says Chapman, 'but when the rocket is fired, acceleration will ramp up enormously.' Another 25 seconds later, having covered around six miles, Bloodhound should be at peak speed, driver Andy Green having withstood 3G of acceleration.

#### BODYWORK

Close attention has been paid to wear on the bodywork. 'Thrust SSC had an aluminium undertray,' explains Chapman, 'but it got so bombarded that it became very thin, so we're going for steel this time to combat that.'

For the upper body, the front section is carbonfibre, while the rear is aluminium over a steel spaceframe. 'We looked at cloaking the whole body in composite [carbonfibre],' says Chapman, 'but weight isn't a key issue and we were worried how heat soak from the engines might affect the rear skin.'

#### **AERODYNAMICS**

■ The team believes Bloodhound's aerodynamics are now so good that these small front winglets are surplus to requirements. Even working with the most advanced software available - the same package used by most F1 teams - to get here it's taken 18 months and 13 different design iterations (including one that created II tons of lift at the rear of a car weighing only 6.5 tons...). 'We don't want downforce, because that'll push the wheels into the surface,' explains Chapman, 'but obviously we don't want lift either. What we've got is zero lift at Mach 1.3 [990mph], although there might be some instability on the way to that speed.'

#### WHAT GOES WHERE?

Behind the carbon nosecone, the driver (1) sits within an aluminium safety cell. The tank behind him (2) contains a ton of hydrogen peroxide fuel, pumped to the rocket by the

Cosworth F1 V8 (3). The rocket itself (4) sits beneath the jet engine (5). The purple panels (6) are air brakes. These are deployed before the parachutes and, finally, the wheel brakes.



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#### **FASTEST SCHOOL BUS 367mph**

■ Built by Paul Stender and his team in Indianapolis, USA, this school bus (pics I and 2) is powered by a Phantom jet engine. Its 150-gallon fuel tank is emptied during a quarter-mile run (the flames are a by-product). 'I built the bus for two reasons,' says its creator. 'The first is to entertain people because, come on, it's a jet bus. The second is to keep kids off drugs. Jets are hot, drugs are not.'

#### **FASTEST PLANE 4519mph**

■ Yep, 17 times quicker than a Bugatti Veyron Super Sport. It's a record set 43 years ago, too, pilot Pete Knight manning the rocket-powered X-15 'spaceplane' at the edge of the stratosphere.

#### **FASTEST BICYCLE 167mph**

■ A bicycle that's faster than a Porsche Cayman? Sort of. In 1995, Dutch cyclist Fred Rompelberg slipstreamed a drag racer on the Bonneville salt flats and hit an extraordinary 166.9mph.

#### **FASTEST GO-KART 253mph**

■ Who sticks a rocket on a go-kart in order to outpace a McLaren F1? Rosco McGlashan, the 60-year-old Aussie who's currently competing with the Bloodhound team for a 1000mph+ land-speed record, that's who.

#### **FASTEST SOFA 92mph**

■ Marek Turowski can breach typical motorway cruising speeds on his couch thanks to the 65bhp 1.3-litre Mini engine slung over its back axle. It's a sofa that's fully road-legal, too.

#### **FASTEST BOAT 318mph**

■ Ken Warby's 'The Spirit of Australia' reached 317.596mph back in 1978. This is the most dangerous speed record to chase – it's reckoned around 85 per cent of attempts end fatally.

#### **FASTEST SKATEBOARD 81mph**

■ Officially judged by the International Gravity Sports Association, Mischo Erban reached 80.83mph, the fastest speed recorded on a board, in September this year — wearing a leather suit, gloves and full-face helmet, naturally.

#### **FASTEST LAWNMOWER 97mph**

■ Sadly no longer held by Project Runningblade, which our own Ralph Hosier was a part of, the fastest mower crown has been reclaimed by



There are no excuses for being late for school on this bus. Well, except that it runs out of fuel after 400 metres...

#### WORLD'S FASTEST: FAST AND CURIOUS

American Bobby Cleveland, his 96.529mph beating Runningblade's 87.833mph.

#### **FASTEST ROLLER COASTER 149mph**

■ It's a long time since Ferrari could claim to make the world's fastest road car, but it now holds bragging rights to a record that more of us mere mortals can enjoy: world's fastest rollercoaster (pic 3). You'll have to make your way to Ferrari World in Abu Dhabi, though, to be propelled from 0-62mph in 2sec and on to 149mph, reaching (and falling from) heights of 62m. Second place goes to the Nürburgring's 134.8mph Ring Racer.

## FASTEST REMOTE-CONTROL CAR 162mph

■ The 11bhp motor in Nic Case's 161.76mph 'Schumacher Mi3' (pic 4) must give it one of the canniest mph-per-bhp ratios going. And as Schumacher Racing are based in Northampton, it's a record we Brits can be proud of.

#### **FASTEST TRAIN 361mph**

■ The title of world's fastest train is one of the more muddled transport records, thanks chiefly to rail travel's numerous methods of propulsion. Set in 2003, the headline figure of 361.01mph belongs to Japan's JR-Maglev MLX01 (pic 5). Its use of a magnetic-levitation track gives it a considerable advantage, though. The quickest conventional 'wheels and rails' train is France's 357.18mph TGV.

#### **FASTEST MOTORCYCLE 376mph**

■ 376.363mph in something with four wheels sounds a bit scary. On a motorbike it sounds bloody terrifying, Yet that's exactly what the fantastically named Rocky Robinson achieved with the Top1 Oil/Ack Attack Streamliner (pic 6) in September 2010, snatching the record back from Chris Carr's 367.382mph BUB Enterprises Streamliner at the same location, Bonneville salt flats.











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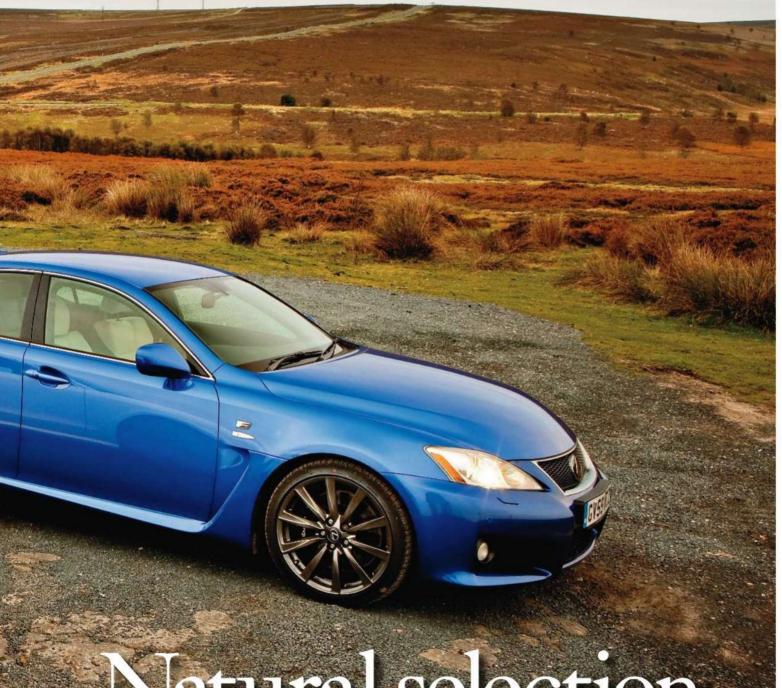


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Words John Barker Pictures Matt Howell



# Tatural selection

Audi's storming new RS5 has a naturally aspirated V8 engine, just like its rivals. What sets it apart is four-wheel drive. So does it leave them trailing in its wake? We find out, on road and track









f you were to describe the BMW M3's worst nightmare, the Audi RS5 would be it. Take the muchadmired RS4 saloon – a bona fide BMW frightener – blend it with the S5 coupe and then take everything to a higher level. The RS5 is equipped with a 444bhp version of the high-revving 4.2-litre V8 and drives through the

revised quattro drivetrain with less mass ahead of the front axle and a 'sport' centre differential that can send up to 85 per cent of torque to the rear axle. It promises the sure-footedness of the RS4 with even greater agility, and a tailor-made ride too, thanks to the standard fitment on UK cars of Dynamic Ride Control.

As soon as the RS5 arrived at the office we were all out in the car park for a good look. Just like the quietly handsome S5 coupe, it's a subtle thing... until you clock those enormous (and optional) 20in alloys. 'They make it look like it's just leapt straight off the drawing pad of a man wearing a polo-neck sweater and edgy-looking spectacles,' says Henry Catchpole. They're irresistibly alluring, those five-spokes, while another desirable option fitted to this car is carbon-ceramic front brakes. There's plenty more kit too – including 'bucket' seats, 'dynamic steering', and a raised, 174mph speed limiter – helping lift this car's list price from a fraction under £57K to just under £75K.

On the pretext of going to get some lunch, four of us climb in, confirming that it's a useable four-seater. It's a handsome, high quality cabin too, though the first hint that things might not go quite to script occurs within yards of setting off. Swinging out of the car park, the steering draws attention to itself, being too light and unnatural in feel. And where's the voice of this mighty, naturally aspirated V8? In the passenger seat, Catchpole busies himself with the car's menus and crafts a 'maximum attack' configuration that can be summoned via the 'individual' button on the facia. He's ticked the boxes for 'dynamic' everything: steering, engine/gearbox, differential and ride. Then, without warning, he pushes the button and the RS5 leaps forward with a snarl, pulling slight left as if hungry for pedestrians. Gave me a bit of a fright, I can tell you. But while the car feels sharper, more

responsive and pleasingly loud, in some respects it's over-alert. And so begins the hunt for the optimum settings...

The Audi will need them if it's to vanquish the opposition we've lined up for it. It's led, of course, by the M3, here in Competition trim with its slightly lowered suspension, and with the optional M-DCT gearbox. That means all four contenders have naturally aspirated V8s and automatic gearboxes, the Audi's and BMW's being new-tech seven-speed dual-clutch jobs. Those of the Mercedes C63 AMG and Lexus IS-F are traditional torque converters, though the Japanese car's has eight ratios. Both of these compact four-doors are improved by the fitment of a limited-slip differential, now standard on the 417bhp Lexus and a must-have option for the keen driver on the Merc, especially if the 'Performance Package Plus' is fitted, as here, lifting power from 451 to 480bhp.

And so to Millbrook for the performance tests. The smart money was on the RS5 out-pointing the rear-drivers: the thump of 444bhp, the traction of four-wheel drive and the swiftness of the S-Tronic dual-clutch auto looked a winning combo. First up, though, was the 6.2-litre Mercedes. When last tested it turned in a creditable 4.7sec to 60mph and 10.3 to 100, but we did better this time, nailing 60 in 4.4sec and 100 in a stonking 9.7sec. The Lexus, now with an LSD, managed 4.7 and 10.9sec, which is impressive given the comparative shortfall of horsepower from its 5-litre V8 and the fact that its eight-speed 'box shifts into third just before 60mph. Into three figures, the superior power of the C63 really tells, and its muscularity is clear to see in the in-gear times too (see page 126).

As expected, the Audi bests its 60mph time, but only just. The RS5 doesn't make the supersharp getaway you feel it ought to; there is launch control, but although it dialled in plenty of revs, the slip-free, four-wheel-drive take-off caused the V8 to sound a little bogged-down for a moment. Just a moment, but you could sense a tenth or two dropped, though who would grumble at a 60mph time of 4.3sec?

Imagine our shock when the M3 matched it. Granted, it wasn't easy, a fluke almost, even though we used launch control. Trouble was, the M3 wanted to creep as soon as the revs rose,

## 'In the acceleration tests, the smart money was on the four-wheel-drive Audi'





## AUDI RS5 v BMW M3 COMPETITION v LEXUS IS-F v MERCEDES C63 AMG









Top: this RS5 has optional 20in alloys and ceramic front discs. Together they hike the price by around £8K. BMW's sexylooking alloys are part of the £3315 Competition pack, which also includes electronic dampers

but touching the brake or handbrake to hold it steady cancelled launch control. Frustrated, we gave it one last go and activated the system perfectly, releasing the gear lever to trigger the launch the moment the revs had settled. The V8 roared, the rear wheels over-sped by just the right amount and the M3 nailed that 4.3sec, while a series of super-crisp, double-clutch shifts (and the lowest kerb weight) helped it to 100mph in 10.3sec.

Impressive stuff. What's slightly surprising is that in everyday driving the BMW isn't the sort of car that likes to play at every corner because although its M Power V8 is terrifically potent, its chassis and clever M-diff generate strong grip. The Lexus and Mercedes are rather different, I reflect, as we make our way across country to pick up the A1 which will deliver us to the North York Moors. I'm in the IS-F, Catchpole is ahead in the RS5 and Richard Meaden is behind in the C63. The Audi is tidy and effective but in give-and-take driving it has nothing over the Lexus, and, with the stability control switched off, the IS-F can entertain with a little oversteer at every sharp turn. It's simple stuff, the rear grip easily overcome by the torque of the V8, which is docile and quiet below 4000rpm and then gets growly and ramps up its delivery above that. And I know that every time the Lexus jinks its tail wide, in the mirror the Meaden-piloted Merc will be wider for longer, riding a bigger wave of torque and power. And it is,

We stop for fuel and I bag the Audi for the rest of the run north. It's quite a contrast with the Lexus, which feels like a hotted-up luxury saloon compared with the other three. The IS-F's sportiness comes almost on demand; it's happy to mooch around, V8 subdued, 'box self-shifting gently, ride a little sharp vertically but soft in roll. That's something like the character the RS5 seems to want to achieve with its

'comfort' setting, which stands everything down, response-wise. Yet the ride remains curiously choppy and the steering is unpleasantly light. This isn't too obvious on this now roundaboutfree stretch of the Great North Road, but a diversion at Thirsk takes us onto trickier roads.

By the time we emerge at Helmsley, ten minutes later, I have cycled through all the RS5's settings — comfort, auto, dynamic and individual — and failed to find a set-up that works with these typically British back-roads. There's no more steering feel on any of the settings, just more or less weight, while the ride is never settled, which is a great disappointment because the damping of the RS4 was probably its most outstanding feature.

Perhaps things will look better in the morning on open moors roads, I ponder, as we pull up at our hotel in the unbelievably scenic village of Hutton Le Hole, where the sheep roam free and the locals tread carefully. Over dinner Catchpole describes going through the same process in the RS5, hunting for a set-up suited to the roads, and not finding one. 'It's odd that,' chips in Meaden, 'because the S5 was really pretty good - all they had to do was give it a bit more power and focus.' The Merc he likes a lot: 'I love the way it i-u-s-t copes with the grunt, then you explore the final 30 per cent of the throttle's travel and it really gets squirmy! It's just how you'd hope a small saloon with a ruddy great V8 should feel. Only the 'box's reluctance to give downshifts spoils the experience.'

Next morning, the fast, mottled and occasionally lumpen moors road between Hutton and Castleton beckons. It's a well-trodden **evo** route and we know it offers a stern test of composure. Meaden has bagged the Audi; I'm leading in the BMW. This M3 is my long-termer and it doesn't often get to shine on my daily drive but this early-morning 'commute' is





## "The RS5's ride never feels settled, which is a disappointment because the damping of the RS4 was its outstanding feature"

somewhat different. It's soon warmed through and into a comfortable groove, tacking calmly into the sequences of fast, lumpy sweeps. Little braking is required, a gentle pull on the left-hand paddle initiating a swift, smooth downshift to give just the right amount of overrun braking, while the chassis settles into the turns, balanced, gripping hard as the bumps patter beneath the wheels and the engine climbs beyond 6000rpm again, its bark tight, pure, determined. It's very satisfying making fantastic progress with only subtle, measured inputs.

There's a couple of sharp crests along here and as the BMW goes light over the first and lands sweetly, I glance in the rear-view mirror where the RS5's strings of day-running lights have been dancing. The Audi's nose lifts, and keeps lifting, showing off lots of wheel, and then lands heavily, front splitter nearly skimming the asphalt. I can almost imagine the tongue-biting compression. 'I was bloody determined to keep up with you,' says Meaden when we reach our destination, 'and it felt better at the limit than it has done up until now. But it's the wrong







Top: Audi has the most impressive cabin, with neat piano black and carbonfibre detailing. Merc, left, also has an appealing ambience. Lexus (above left) is rather uninspired by comparison and BMW lacks the cohesive design of M3s past





# 'The Merc's appeal is enhanced by steering that has a clarity and directness unmatched here'

way around. Audis are usually great in general driving and not so good at the limit.'

I'm keen to have a go in the C63 that Catchpole has pulled up in. It sounds brilliant from the outside, like a big vee-twin motorbike when it throttles off, and I'm interested to know if it has enough composure over this sort of road with that big V8 in the nose. Even for slimline me it's a squeeze to get in past the deep seat side bolsters, despite the steering wheel whirring up out of the way, but, once you're in, the seat holds you brilliantly and the car feels small, snug. The cockpit gives best to the Audi with

its carbonfibre and piano black detailing, but it's more cohesive and better trimmed than the BMW's and more expensive-looking than the Lexus's rather plain effort, while the suederimmed, ovoid wheel feels great in your hands.

The Merc looks under-wheeled and undertyred, despite having 19in rims and rear tyres almost as wide as the M3's, and you can sense occasionally that its bodyshell isn't as rigid as those of the two-door Audi and BMW, but it works very well. Its appeal is unquestionably enhanced by steering that has a clarity and directness unmatched here; the C63 is far from the blunt instrument it could have been. You're acutely aware that there's a monster of an engine up front, but mainly because it gives the rear tyres such a hard time. Ultimately, the front end isn't as responsive as the BMW's, or indeed that of the Lexus, but it is faithful at speed and, anyhow, you can steer with the throttle into and through tighter corners.

The Lexus raises its game on these roads, too. Its steering is the sharpest of the lot and its poise and balance on opposite-lock make it easy to play with, but more impressive is the way the chassis feels composed over the faster moorland







All four V8s are normally aspirated (enjoy them while you can). 4.2-litre Audi (left) and 4-litre BMW (below) both rev to well over 8000rpm. 6.2-litre Merc (above left) and 5-litre Lexus (above right) major on torque











Above: Barker and Catchpole take a break from opposite-lockery (Troy Queef not pictured). Below: not recommended as a holiday destination



roads. There's no adaptive damping but that sharp vertical control at moderate speeds seems perfectly pitched over this fast, difficult surface, and then I remember that the IS-F spent a lot of development time at the Nurburgring... You can enhance the feel by pressing the 'sport' button, which makes the gearbox quickershifting and more willing to take high-rev downshifts, and this gives it the edge over the Merc's 'box, which feels a little ponderous and occasionally reluctant.

Catchpole has just returned from a blat in the M3, and he's smiling. 'It's easy to forget how good it is, isn't it? You sort of take it for granted when you're pottering around at everyday speeds, not really venturing above 5000rpm, but that engine is a stunning piece of engineering. And unlike the Merc, it wants you to work for the rewards of playing near the limit – you can't just poke it sideways on the exit of a corner if you haven't committed on the way in.'

Getting back into the RS5 is immensely frustrating. It looks great as you walk up to it, it looks great as you get comfortable behind the wheel, and then you get it moving and it just doesn't satisfy. It has a great engine, as muscular as the M3's with a similar, thrilling top-end delivery, and each upshift is punctuated by an appealing tailpipe bwarp, but, but... there are so many buts. What these rear-drivers throw into acute relief is the RS5's quality of steering, or lack of it. It never feels right, in rate, response or weight. Exiting corners, it occasionally tugs like it's a torque-steering front-driver, and just as significantly the ride is never right, either; never

#### AUDI RS5 v BMW M3 COMPETITION V LEXUS IS-F V MERCEDES C63 AMG

settled, never in rhythm with the road. The fact that the handling remains inert when you attack an inviting corner while the others offer options and entertainment doesn't have any bearing on its final place.

When it's time to debate the finishing order we find that, unusually, there is an absolute consensus. In last place is the RS5, 'It's

incredibly hard to like, which I found amazing given how warm and generous the old V8 S5 was,' says

'Its chassis marks a return to the bad old days of fast Audis: too hard with zero steering feel. Dynamically it's as though they've forgotten they ever made the RS4 and R8. Big shame.'

We're all agreed that it's probably the best built, has the highest quality interior and a terrific engine, but dynamically it simply never gels. 'The RS5 is all that's bad about adjustable set-ups - lots of options but not one combination that really feels like it works on the road,' says Catchpole. It's last, by a long way.

Third place goes to the Lexus. The addition of a limited-slip diff has certainly improved the handling and the appeal of the IS-F. It's a

capable and entertaining hi-po saloon, happy to play with the traction control off, relaxed and comfortable when you just want to soak up big miles. 'Feels the biggest and least focused of the quartet,' says Meaden. 'Not as satisfying to hustle as the M3 and not as naturally playful as the Merc but still more entertaining than the Audi, and much better at simply being comfortable, swift and refined.' Surprisingly, considering its luxury brand status, its interior was criticised for being rather low-rent. It feels the cheapest and most synthetic of the four and those fake tail-pipes still annoy me - but it's



#### **SPECIFICATIONS**

Front suspension

Rear suspension

Brakes

Wheels

Weight (kerb) Power-to-weight 0-60mph Top speed Basic price Key options

AUDI RSS
V8, 4163cc
Front, longitudinal
444bhp @ 8250rpm
317lb ft @ 4000rpm
Seven-speed DCT with paddleshift, fou wheel drive, centre diff, ESP
Double wishbones, coil springs, electronic dampers, anti-roll bar, DRC
Multi-link, coil springs, electronic dampers, anti-roll bar, DRC
Ventilated, cross-drilled discs (carbon front), 380mm fr, 324mm rr, ABS, EBD
9 × 20in front, 9 × 20in rear
265/30 ZRI9 front, 265/30 ZRI9 rear
Bridgeston Petenza S001
1725kg (1827kg as tested)
261bhp/ton
4.3sec
174mph (limited) **AUDI RS5** 

#### **BMW M3 COMPETITION**

Front, longitudinal 414bhp @ 8300rpm 295lb ft @ 3900rpm Seven-speed DCT with paddleshift, real wheel drive, M diff, DSC+T MacPherson struts, coil springs, electronic dampers, anti-roll bar Multi-link, coil springs, Multi-link, coil springs, anti-roll bar
Multi-link, coil springs, electronic dampers, anti-roll bar
Ventilated and cross-drilled discs, 360i
front, 350mm rear, ABS, CBC
9 × 19in front, 10 × 19in rear
245/35 ZR19 front, 265/35 ZR19 rear,
Continental Sport Contact 3
1655kg (1654kg as tested)
254bhp/ton
4.3sec

LEXUS IS-F V8. 4969cc
Front, longitudinal
417bhp @ 6600rpm
372lb ft @ 5200rpm
Eight-speed automatic gearbox, rearwheel drive, limited-slip diff, VDIM
Double wishbones, coil springs,
gas dampers, anti-roll bar
Multi-link, coil springs,
gas dampers, anti-roll bar
Ventilated discs, 360mm front,
345mm rear, ABS, EBD, BA
8 x 19in front, 9 x 19in rear
225/40 ZR19 front, 255/35 ZR19 rear,
Bridgestone Potenza RE050A
1714kg (1732kg as tested)
247chp/ton

#### **MERCEDES C63 AMG**

Seven-speed automatic gearbox, rear-wheel drive. limited-slip differential. ESP

**EVO** RATING

The Mercedes does it better, though. It could be just a drag-racer, the C63, but it's not. Not by a long chalk. Catchpole again: 'Although you can light the tyres up with a half-prod of throttle it's still exploitable and enjoyable, because it's small and has probably the best steering feel of the group.' Indeed, the combination of so much power and a very able and rewarding rear-drive chassis holds immense appeal. 'Brilliant at mooching and extremely capable and engaging right up to and over the limit,' says Meaden. 'Not as sharply focused as the M3, but this arguably makes it the warmer and more rewarding car in all but the most extreme driving. Love it!'

The M3 won't be denied, though. It doesn't offer the instant gratification of the C63 or the IS-F but it will saunter comfortably and when you work it hard it reveals an unmatched depth of quality and ability. Like the Audi it has buttons for adjusting damping force, gearshift speed and engine response, but here they work because they merely tailor a set-up that's intrinsically right. Meaden: 'I drove this after I'd driven the others and it really does feel a league above them for pure sporting driving. Firmer, sharper and more direct, it feels like a sports car that's had practicality thrust upon it rather than the other way round. It's the genuine item.'

'When it's time to debate the finishing order we find that, unusually, there is absolute concensus'



# GROUP TEST TRACK BATTLE

We know how the RS5 performed against its rivals on the road. But which will be quickest – and which the most fun – around the Bedford Autodrome's West Circuit? **Roger Green** finds out





ACCEL ERATION

	DOS	142	10.5	
T.	RS5	M3	IS-F	C63
0-30	1.7	1.8	1.9	2.1
0-40	2.5	2.5	2.7	2.8
0-50	3.3	3.3	3.6	3.5
0-60	4.3	4.3	4.7	4.4
0-70	5.5	5.4	6.0	5.5
0-80	7.0	6.9	7.4	6.7
0-90	8.6	8.5	9.0	8.0
0-100	10.6	10.3	10.9	9.7
0-110	12.9	12.5	13.1	11.5
0-120	15.6	15.1	15.9	13.4
0-130	19.1	18.3	19.2	15.9
0-130	23.6	22.0	23.6	19.1
0-150	23.0	27.2	29.6	22.8
0-150		21.2	27.0	22.0
1/4 MII				
sec	12.8	12.8	13.0	12.7
speed	109.8mph	III.2mph	109.7mph	116.2mp
2ND C	SEAR			
20-40	2.0	1.9	2.0	1.7
30-50	2.0	1.9	1.9	1.6
40-60	2.0	2.0	2.0	1.6
3RD G	FAR		- 10	
-	Market Control	1.0	2.0	6.4
20-40	2.9	2.9	2.8	2.7
30-50	2.7	2.7	2.9	2.5
40-60	2.7	2.7	2.9	2.4
50-70	2.8	2.8	2.7	2.3
60-80	2.9	2.8	2.6	2.3
70-90	3.1	2.9	2.9	2.6
4TH G	FAR			
_		7.7	40	3.0
30-50	3.8	3.7	4.0	3.8
40-60	3.7	3.5	3.8	3.7
50-70	3.6	3.5	3.8	3.5
60-80	3.8	3.7	3.7	3.4
70-90	4.0	3.8	3.6	3.5
80-100	4.0	3.9	3.7	3.5
90-110	4.4	4.1	4.0	3.6
100-120	5.1	4.5		7
5TH G	FΔR			
SECTION AND DESCRIPTION OF THE PERSON NAMED IN				
30-50	5.3	4.7	5.2	3.7
40-60	5.2	4.5	4.8	3.6
50-70	5.1	4.3	4.6	3.5
60-80	5.0	4.4	4.6	3.4
70-90	5.2	4.8	4.6	3.4
80-100	5.5	4.9	4.7	3.4
90-110	5.9	5.2	4.9	3.5
100-120	6.4	5.5	5.2	3.8
110-130	7.0	6.0	5.9	4.3
120-140	8.2	6.8	-	***
6TH G	EAD			
COURSON I		300		200
40-60	7.0	5.4	6.2	5.4
50-70	7.1	5.3	6.1	5.4
60-80	7.4	5.3	6.2	5.3
70-90	7.5	5.6	6.3	5.2
80-100	7.6	6.0	6.5	5.2
90-110	8.0	6.4	6.6	5.3
100-120	9.0	6.8	6.8	5.6
110-130	7.7	8.6	7.3	5.9
7TH C	FAR (7TH	8TH FOR ISF)		
50-70	9.2	7.0	6.6/11.1	7.1
60-80	9.6	6.8	7.4/11.5	7.1
70-90	10.5	7.0	8.3/12.5	7.2
80-100	11.0	7.4	9.3/13.7	7.5
90-110	11.6	7.9	10.2/15.1	7.7
90-110	**	9.1	11.0/	8.0
	NC			
BRAKI	NG			
BRAKI	4.2sec	4.3sec	4.4sec	4.5sec

fares and, as we always perform our test twoup, Dickie Meaden is encouraged into the passenger seat. First impressions? Efficiency, particularly where the brakes are concerned – they're powerful, with instant, effective bite, though they're also over-assisted, so finessing them and accurately judging braking points requires a little acclimatisation. The gearbox is simplicity itself – in fact during a timed lap you only need use the left-hand paddle as the RS5 automatically upshifts at 8500rpm – complete with a bassy *pop* as the cogs hand on the drivetrain baton. The interruption in torque is practically negligible.

Chassis-wise it's a triumph of lateral grip and traction over poise and fluidity, and looking at the data traces (p128) at the end of the day reinforces the in-car sensations. The RS5 is the fastest of all through the final two high-speed turns and through the transitions of Pif-Paf and Bank, the mechanical diff and electronic torque-vectoring nullifying the understeer. But that only tells part of the story; the RS5 still doesn't allow the sort of throttle adjustability that you can enjoy in the the rear-drivers, and at the hairpins it records the lowest minimum speeds of all, struggling to turn the heavy and over-burdened nose into the apex. The steering is over-assisted and undescriptive, but the outstanding level of traction afforded by all that hardware does allow you to nail the throttle harder and earlier from the apex than is possible in any of the other cars here.

Those pluses and minuses of the RS5 are most notably demonstrated through the Palmer Curves – it is the slowest through the first right, but from that point onwards you can mash the throttle into the floor through the left section where the other three require

subtle modulation. A lap time of 1.26.9 is extremely impressive.

Appearances suggest the Lexus IS-F isn't going to be as track-focused as the rest of the group - it lacks a little visual aggression but it definitely shouldn't be overlooked. For a start it demonstrates that with a sorted chassis you don't need four-wheel drive to contain this level of power - the IS-F delivers a neat and clean lap. It turns in crisply everywhere, but not so hard that the rear end can't follow faithfully through the first stage of the turn. Squeeze the power on and you discover impressive levels of traction - not RS5 levels admittedly, but without any of the time-wasting oversteer you might expect with a thumping V8 working the rear axle. Riding the limit of grip is easy because as long as you don't get greedy and you employ smooth technique it answers your bidding. Just over a second down on the RS5 at 1.28.1 is no disgrace, for what it loses against the stopwatch it more than makes up for by being far more engaging.

The wild child was always likely to be the C63 AMG, being the most powerful and the keenest to smoke a pair of rear tyres. And so it proves, though my main concern, with time for only two flying laps, is getting the best from the old-fashioned auto gearbox. You have to plan and anticipate every shift. Flick the paddle to go up and the delay before it reacts to your demands feels like whole seconds. Leave it too long and you'll slam it into the limiter. And it's just as awkward going down the gears in the braking phases – you could almost be turning-in before it gives you the required ratio.

Suss all that out, though, and the C63 serves up a generous helping of tail-led





## 'You can nail the Audi's throttle harder and earlier from the apex than in any of the other cars here'

entertainment - admittedly not the most technically proficient way of circulating Bedford but it sure puts a smile on your face. On track it has the least amount of rear-end grip, falling into oversteer on turn-in if you work it hard enough, and ultimately that means you have to slow the AMG more than perhaps you really want to. But even from a lower starting point than both the M3 and IS-F, it still comfortably nailed the highest peak speed (109.1mph). Mind you, this couldn't prevent it from recording the slowest time of the bunch, 1.28.8.

And so we come to the winner from the road test, the M3 Competition. With the power button thumbed, the DCT gearbox wound up to its fastest setting and the suspension to its stiffest option, we head onto the tarmac with little time left, but at least it's a car I'm familiar with. The lap effectively begins with the final and fastest corner on the circuit -Tower – as it dictates your speed over the flying start, and the M3 feels mighty through here. The balance is just so and with the best

steering of the bunch you're able to hustle the M3 right on the limit, with the throttle playing just as big a part in the cornering process as the wheel. Slow corners are equally impressive; the Competition has a communicative, tarmac-grasping front end that means you never need miss an apex.

The BMW's Achilles heel, as ever, is the brakes, a trait exaggerated here by this being our heavily used long-termer. They begin to fade on the very first flying lap, and perhaps because of this I make a small mistake through Palmer Curves, asking too much of the rear tyres too early, and have to back off a little when I should be hard on it. Unfortunately there's no time to stop and cool them and try again, but even so the M3 ends up only a tenth behind the RS5 on 1.27.0. We'll rerun the laps as soon as we can get the car fettled, but there's no doubt a fresh example would be fastest of the group. What's more, it was unquestionably the most exploitable and fulfilling from the driving seat. Subjectively, the M3 Competition wins both tests.

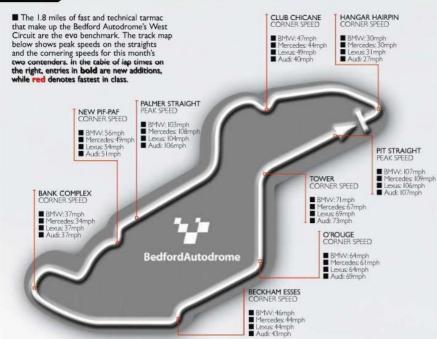






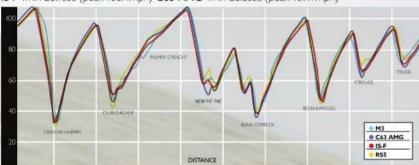
Above: weighing the cars before the circuit laps. The M3 came in at 1654kg and the IS-F at 1732kg, both virtually as claimed. Audi and Merc each topped a portly 1800kg. Turn the page for the full lap data

#### HOW FAST?



#### WHICH WAS FASTER?

RS5 Imin 26.9sec (peak 106.8mph) M3 COMPETITION Imin 27.0sec (peak 107.2mph) IS-F Imin 28.1sec (peak 106.4mph) C63 AMG Imin 28.8sec (peak 109.1mph)

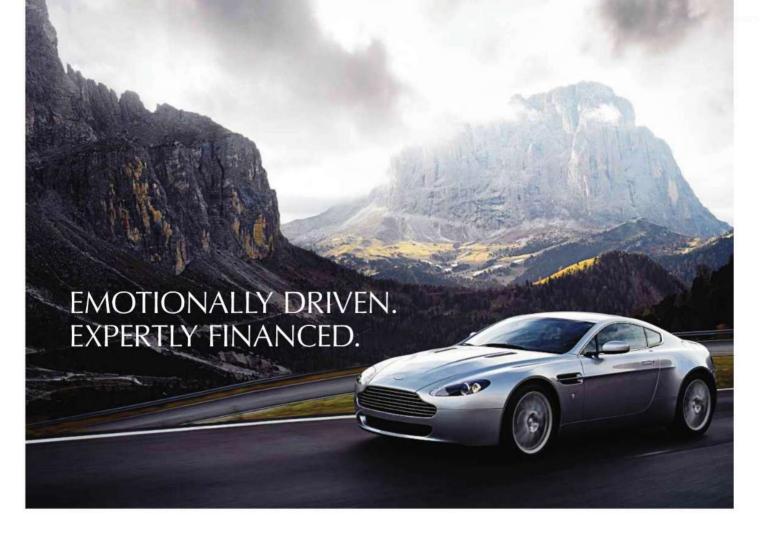


▲ Traces (above) show the four cars are well-matched for large parts of the lap, but closer observation reveals some critical differences. The RS5 is notably slower in the tighter turns like Hangar Hairpin and Club Chicane but, conversely, substantially quicker through the faster corners at O'Rouge and Tower

	THE LEADERBOARD Radical SR8LM (fastest car)	LAP TIME	PEAK 127.8
	Caparo T1 (fastest supercar)	1.14.8	130.9
	Gumpert Apollo S	1.19.4	120.4
	Caterham Levante V8	1.19.6	118.6
	Lotus 2-Eleven GT4	1.20.1	113.2
	Caterham Superlight R500	1.20.2	115.7
	Ferrari 458 Italia	1.20.3	117.0
	Lamborghini Murciélago LP670-4 SV	1.21.3	121.1
	Ariel Atom 3 Supercharged	1.21.5	113.6
	KTM X-Bow (300bhp)	1.21.5	112.7
	Ferrari 430 Scuderia	1.21.7	117.2
	Porsche 997.2 GT3 RS (fastest coupe)	1.21.9	116.8
	Lamborghini Gallardo LP560-4	1.22.5	119.1
	Brooke Double R	1.22.5	113.2
	Lamborghini Murciélago LP640 Porsche Carrera GT	1.22.9	116.7
	Porsche 997.2 GT3	1.23.3	115.2
	Lamborghini Gallardo LP550-2 Valentino Balboni	1.23.4	116.8
Ŷ.	Porsche 997 GT2	1.23.5	115.1
	Nissan GT-R	1.23.6	113.1
	Porsche 997 Turbo	1.24.1	113.5
	Lotus 340R (190bhp)	1.24.2	110.0
	Caterham Superlight R300	1.24.3	101.5
	Ferrari California	1.25.0	111.8
	KTM X-Bow	1.25.0	105.0
	Mercedes SL65 AMG Black	1.25.2	108.6
	BMW E92 M3 Coupe	1.25.9	108.8
	Mitsubishi Evo X FQ-400 (fastest saloon)	1.25.9	107.5
	BMW E90 M3 Saloon	1.26.2	108.2
	Audi TT RS	1.26.3	107.2
	Aston Martin DBS	1.26.4	109.5
	Audi R8	1.26.5	112.0
	Porsche Panamera Turbo	1.26.5	109.2
	Jaguar XJ220	1.26.7	111.7
	Audi RS5	1.26.9	106.8
	Lotus Evora	1.27.1	104.2
	Lotus Elise SC	1.27.7	104.6
	Vauxhall VXR8 Bathurst S	1.27.8	106.1
	Renaultsport Mégane R26.R (fastest hot hatch)	1.27.8	103.3
	Audi RS6 Avant (fastest estate)	1.27.9	111.0
	Jaguar XFR	1.27.9	1.801
	Honda Civic Type-R Mugen	1.28.0	104.4
	Porsche Boxster S	1.28.1	105.4
	Jaguar XJ Supersport	1.28.4	106.6
	Lexus IS-F	1.28.5	101.4
	TVR Griffith	1.28.6	106.5
	Ford Shelby GT500 Nissan 370Z	1.28.7	103.7
	Mercedes-Benz C63 AMG	1.28.8	109.1
	Bentley Continental Supersports	1.29.2	105.8
	Maserati Quattroporte S	1,29.5	105.0
	BMW 335i Coupe	1.29.9	104.9
	Nissan 350Z	1.30.0	101.4
	Honda NSX	1.30.1	101.3
	Subaru Impreza WRX STI	1.30.2	103.4
	Ford Focus RS (Mk2)	1.30.8	101.8
	Mercedes SLK350	1.31.1	101.3
	Lotus Carlton	1.31.2	102.7
	Honda Civic Type-R Championship White	1.31.8	97.9
	Renaultsport Clio 200 Cup	1.31.9	97.2
	VW Golf GTI (Mk6)	1.32.4	99.3
	VW Scirocco 2.0 TSI	1.32.4	98.6
	BMW E30 M3	1.33.3	94.0
	Renaultsport Clio 172 Cup	1.33.4	96.1
	Renaultsport Clio Trophy	1.34.0	96.5

'You're able to hustle the M3 right on the limit'





### ASTON MARTIN FINANCIAL SERVICES



34 monthly payments	£995.00
On the road cash price*	£93,177.32
Deposit or part exchange	£29,995.00
Amount of credit	£63,182.32
First monthly payment (inc. acceptance fee of £175)	£1,170.00
Optional final payment	£42,562.31
Total amount payable	£107,557.31
Total Contract Mileage 18,000	
Excess Mileage Charge 17.44 pence per mile	

Typical 9.4% APR

Experience driving the V8 Vantage with individually tailored finance packages.

For more information visit www.finance.astonmartin.com

Finance example is based on a 36 month PCP agreement for the model featured, an Aston Martin V8 Vantage with optional Bluetooth Telephone Preparation and Satellite Navigation System. Vehicle condition charges may apply. \* On the road cash price includes 12 months road fund licence, first vehicle registration free, delivery, number plates and VAT. Figures are correct at time of going to print and are subject to change without notice. All finance is subject to status and available to over 18's in the UK only. (Excluding the Channel Islands). Guarantees and demnities may be required. Aston Martin Financial Services is a trading style of Aston Martin Lagonda Ltd. Finance is provided by ALPHERA Financial Services, Europa House, Bartley Way, Hook, Hampshire RG27 9UF. Registered company number 01288537. Official government fuel consumption figures in mpg (litres/100km) for the Aston Martin V8 Vantage: urban 14.2 (19.9); extra-urban 27.3 (10.4); combined 20.4 (13.9). CO<sub>2</sub> emissions 328 g/km (manual).

## Fast Fleet | LONG-TERM TESTS





here was one question I thought long and hard about before I took delivery of 'my' Aston; a question that's almost impossible to answer. That is, what is the special 'it' that seems to envelop everything Aston Martin?

Driving enthusiasts are drawn to the muscle, the engine note and the speed. But what about those who enjoy these dynamic elements but need something more - an essential rightness? That's the intangible I'm talking about here. I was hoping my four months with an Aston V8 Vantage Roadster would provide the answer.

The relationship got off to a good start. I was invited to spec my car at the factory - a thoroughly enjoyable day of dithering and deliberating over trim, leather, hood and paint

combinations. Among the many options I chose, one was conspicuous by its absence: the Sports Pack suspension. As the car was unlikely to see much track action. I looked at specifying the best compromise for road use. This meant ticking the box for the killer B&O hi-fi (£4750) and looking closely at the paint/roof/ interior options for maximum visual impact.

In the end I went for a classy but subtle Lightning Silver metallic exterior with Blue Haze leather trim and a set of 20-inch alloys in a glorious diamondturned/graphite contrast finish. Overall, including Bluetooth, N400 sills, sat-nav and a bunch of other goodies, I somehow took my Roadster from £96,995 to £107,899. Oops.

Then came the wait. The long, dreaded wait as Aston built my car. A couple of months ago, friend-of-evo

This month: Aston V8 Vantage Roadster SEAT Leon Cupra R Audi TT RS Renault Clio V6 Porsche 964 RS Renault Mégane 250 Cup Infiniti G37S Ford Capri V8 Lamborghini Countach Nissan GT-R Aston DBS Hiller 12E4 Jaguar XKR Speed Pack Citroën DS3 Renault Clio Williams Vauxhall Insignia VXR Ford Fiesta Zetec S Peugeot 306 Rallye Mazda 3 MPS BMW M3



#### ASTON V8 VANTAGE ROADSTER

Date acquired	May 2010
Duaration of test	4 months
Total test mileage	6560
Average mpg	20.6
Costs	£1140 (Aston driver course)
Purchase price	£107,899 including options
	(£96,995 basic)
Trade-in value	£85,000
Depreciation	£22,899

Lord Mexborough described to me how he waited patiently for two years from deposit to delivery of his Porsche 959. I don't know how he did it - my wait of just a few months for the Aston was excruciating...

On the day I collected the car from Gaydon, I was offered a factory tour. It was clearly a strategic move - to show me the quiet calm of the factory, to meet the people who stitched my dash and fitted my engine. Then, as I



stepped outside afterwards, my car was waiting under a silk sheet. I'm pretty sure Aston had arranged the weather too, because as I slipped off the sheet and the sun beat down on the flickering metallic finish, I was left momentarily gobsmacked. It also meant I could lower the roof, fit the wind deflector and drive home in full Roadster mode. It was one of the best drives of my life, and so began four months with an Aston Martin.



My regular commute includes a bit of motorway, a bit of fast, twisty, bumpy B-road and a slow A-road blighted by 40mph trucks and with blink-andyou'll-miss-it overtaking opportunities good fodder for a sports car, then. Whatever the road, I never failed to be impressed by the V8's ride. Fluid and composed, with decent wheel-travel, the Aston had a knack of making me feel like I was gliding a couple of inches above the road surface.

Far left: Nick collected his Aston from the factory. Left: fixed backs of the sports seats were frustrating. Right: softer ride of the standard suspension proved perfect for road use



Of course, this is the last thing you want to feel when you are pressing on, but the Aston also had a knack of involving the driver when you switched your brain to 'sporty' mode. Then it truly rolled up its sleeves and got stuck in. It was something I loved about the car: roof-down smooth cruiser one moment, exhaust-barping V8-growling road-burner the next. And I never, ever tired of the epic sound of that 4.7-litre, 420bhp V8 on

## Fast Fleet | LONG-TERM TESTS



Nick watches his Aston leave the evo car park for the last time – he'll miss it

full re-heat. A truly tectonic noise. I regretted optioning the fixed-back sports seats, though. I'm a bit of a stickler for finding the optimum driving position and while I got close (low seating, steering wheel extended, legs straight) I needed a little more recline to feel perfectly comfortable. Other grumbles? The Bluetooth hands-free link to my phone rarely telegraphed a clear voice to callers, and while the sat-nav was efficient enough, the functionality and visuals were too low-tech for it to be a £1795 option.

Memorable drives include a thorough whupping of an E92 M3 on wet roads — the M3 skipping around on its axles while the comparatively lazily sprung Aston used all its (non-Sports Pack) suspension compliance to dig in and extend a gap on the white-knuckled M3 driver. I also enjoyed a few long commutes into London, and the frequent cheery 'after you' waves from other motorists at tricky junctions — never had that in a Ferrari.

And reliability? The Vantage didn't require a drop of oil, never skipped a beat. Nothing rattled, broke or fell off, and if anything the V8 was just starting to feel properly powerful and loose when I gave the car back with over 6500 hard miles on the clock. Fuel consumption averaged just over 20mpg, which is thoroughly acceptable, but depreciation was a big downer had I paid for the car myself I would've been looking at a £22,899 hit if I'd sold privately. Thing is, I wouldn't have sold it. My relationship with the Aston was only just beginning; the bond we were developing was unlike anything I've experienced in motoring.

So, did I discover what the special Aston 'it' is? I think I was getting close to an answer — an excess of character, beauty and pace matched to everyday driveability. A car to covet for a long time, then. Waving goodbye was hard. I miss 'my' Aston like hell.

Nick Trott

## **NEW ARRIVAL**

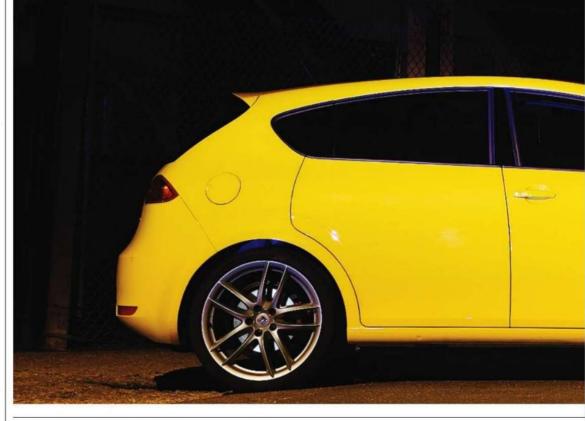
he more observant amongst you will notice that I have swapped cars. With just three doors and a boot that wouldn't suffice for a family day out including pushchair, the Zetec Fiesta didn't quite fit my family lifestyle. I needed something bigger, and as luck would have it, SEAT offered us the chance to run a Leon Cupra R.

The first thing you notice about our latest arrival is the paint. Crono

Yellow is SEAT's signature colour, and while it isn't to everyone's taste, I really like it. Look more closely at the car and you might notice the tweaks that have been applied to the UK-market Cupra R. The rear diffuser and central twin-exhaust set-up is unique to these shores, as are the black-tipped roof spoiler and gloss black seat-backs — subtle touches, but they let you know that you have something a bit special.

It may not be as aggressive-looking as a Focus RS, but to my eyes the Cupra R is more purposeful than either a Golf GTI or a Mégane RS 250. All four of these hatches went head-to-head in a recent evo group test (issue 139), where the SEAT got a slight kicking from a certain Ollie Marriage. But a long-term test is a marathon, not a sprint, so hopefully the R will now get its chance to shine.

Open the door and you're greeted by the standard-fit sports seats. Wide and tall with white-stitched quilted black leather, they give you a gentle squeeze rather than holding you so tight you need forceps to get out. The leather steering wheel feels good to grip, the dials are clear and well laid out and there's a well-sized screen for the sat-nay. All in all it's not a bad place to sit, but there's nothing to







ast month I reported on the astonishing wet-weather ability of the TT RS, and this is something I can now fully confirm after taking it on holiday to Scotland. The Audi turned out to be the perfect tool for the job for other reasons, too; it easily swallowed a week's luggage for two, effortlessly blitzed the seven-hour motorway slog, and when we were finally surrounded by the mountains of Glen Coe, a press

AUDI TT RS	
Date acquired	May 2010
Total mileage	11,819
Mileage this month	1976
Costs this month	£0
mpg this month	24.5

of the Sport button revealed the other side of the car's dual personality.

The more I drove the RS along the narrow, twisting passes, the more it began to feel as if it had been designed for this environment. Its diminutive size instils nimbleness, while the instant punch meant overtaking people who drive wearing hats required no more than a twist of the wrists and a little flexing of the right foot.

In fact the TT felt pretty invincible, and I reckon that thanks to its fourwheel drive the feeling will continue deep into the winter months. Perhaps I'll go back for Hogmanay to find out.

Roger Green

'THE R.S. FELT AS IF IT HAD **BEEN DESIGNED FOR THIS** ENVIRONMENT. ITS DIMINUTIVE SIZE INSTILS **NIMBLENESS'** 

## Fast Fleet | LONG-TERM TESTS

#### RENAULT CLIO V6

Date acquired	January 2010
Total mileage	14,377
Mileage this month	379
Costs this month	£0
mpg this month	22.1



After nine months with the V6, Nick reckons it's ready for a bit of TLC

h oh. I've got a bad feeling that some big bills are coming my way. My Clio V6 and I have enjoyed around 4000 spirited miles together since I bought it in January and it's starting to feel like it needs a good service, if you get my old, so despite its low mileage the engine belts will need changing very soon. And the brakes have pretty much given up. And there's a nasty squeak from the right-front corner on full lock that needs investigating. And the tyres will need replacing soon. And... and...

#### 4 RECKON I'M LOOKING AT A BILL OF AROUND £1750'

The Clio V6's service intervals are set at a reasonable 12,000 miles or two years, but I'm one of those cautious types who prefers an annual service and oil change. I'll aim to get the belts and brakes done at all, I reckon I'm looking at around £1750, but then I can console myself that this years' bill is unlikely to be repeated for another five years, and the overall cost reflects the V6's status as a mini-exotic. At least that's what I keep telling myself. And my bank manager...

onfession time. When I learned that not only was I going to be running quoting 260bhp. a Mégane 250 Cup but I'd be able to

spec it as well, the temptation to have a black Renaultsport to go with my black Renn Sport 911 was too great to resist. Vain? Quite possibly, but I have always been a sucker for black paintwork, even if it is a nightmare to keep clean.

Comparing the two RSs is a pretty graphic illustration of how performance cars have changed in the last two decades. In its day the Porsche was a specialist £60K machine: scarce in number and unapologetic in its hardcore delivery.

RENAULI

Powered by a blueprinted 3.6-litre air-cooled flat-six, the 964 RS made do with a scant 10bhp more than its cooking Carrera sibling, official figures

Fast forward to 2010 and that figure looks a little undernourished even in the hot hatch segment. Then again, much like the 964 RS, the £25K, 247bhp Mégane 250 Cup isn't about headline-grabbing power outputs. Renault prefers to leave that game to Ford's RS Focus. Still, it's funny to look at these two side-by-side and think they have similar firepower.

Whenever I see the RSs together I can't believe how low and small the Porsche looks, and conversely how tall and bulky the Renault looks, but despite the obvious differences there are some strong similarities that bond these two cars. The main one is ride quality, for the ultimate point-topoint pace of both is limited by their inability to cope with lumpen roads.

Oddly, it doesn't bother me so much in the Porsche, for it's often only nadgety little B-roads that exhibit the worst surface quality and, to be honest, I don't think they are an RS 911's true domain. However, the Mégane's rough ride does vex me, because a hot hatch should have the

#### RS MÉGANE 250 CUP

Date acquired	September 2009
Total mileage	7971
Mileage this month	1501
Costs this month	£0
mpg this month	27.8

#### 'THE TWO RSS ILLUSTRATE HOW PERFORMANCE



measure of minor roads.

Where the Porsche pounds and skips and sometimes parts company with the tarmac altogether, the Renault remains more resolutely locked to the road, but the edges of the ride are harsh and it can pull and tug through the steering, especially under power.

What makes it worse is that I'm afraid/ashamed to say the reason for the hobbled ride is my choice of 19in wheels. I picked them partly because I

PORSCHE 964 RS

Date acquired	July 2006
Total mileage	60,468
Mileage this month	191
Costs this month	£0
mpg this month	25.6

wanted to see what effect they would have on the dynamics (I thought I should be the guinea pig so that you didn't have to be) and partly because I think they make the Mégane look, er, mega. However, having recently tried a 250 Cup on 18s, I have to say the more modest-looking version is by far the nicer car to drive. Shame.

The rock-hard ride also makes both cars rather unpleasant for passengers. That's only to be expected in such driver-focused machines, and isn't such a big deal with a high-daysand-holidays car like the 911, but it's something to bear in mind if you're considering a Mégane 250 Cup as your family wheels. If you are, I'd definitely recommend trying a non-Cup model as well.

Which is quickest? Well, that's a surprisingly tough question to answer. The Porsche certainly feels the quickest, mainly due to its lower weight and more immediate throttle response. It sounds magnificent too, which always helps. The Renault's delivery is more spiky, thanks to the lunges of turbo boost in each gear. It also places big demands on the front tyres and their ability to find traction, something the Porsche never, ever struggles with. Honestly, all-out I don't think there'd be much in it at all, whether you're on the road or on a track. That's quite an achievement for Renault, but no shame on the 18-year-old Porsche. Either way it's a win-win for jammy old me.

Richard Meaden

#### INFINITI G37S COUPE July 2010 Date acquired Total mileage 6135 Mileage this month 1689 Costs this month £0 mpg this month 276

Infiniti feels quite agile in the dry, but can struggle for traction in the wet

mentioned last month how the Infiniti's slippy diff and ESP coped well with keeping the car's 265lb ft in check on the greasy passes of the Lake District. Well, with autumn now in full swing, I've discovered that it's not just slow, tight, uphill hairpins that have GGI0 EVO trying to spin-up its rear Bridgestones – attempt to push on through pretty much any wet corner and you'll soon feel the car's back end nudging wide, far more easily than in any similarly powered rear-drive car I can think of, in fact. Perhaps it's the price you pay for the nimble, light-on-its-feet feeling

#### 'YOU SOON FEEL THE INFINITI'S **BACK END** NUDGING WIDE'

the G37S has in the dry, a product, no doubt, of its quick rack and fourwheel steering system.

It's not really a problem, though, as the ESP is always on top of things (amusingly, on certain surfaces you can keep its light flickering well beyond 60mph), but I do wonder if, as the gloomier months continue, I might eventually tire of having to be quite so careful with my right foot. Then again, if I get the chance to take the Infiniti out on a wet track for some ESP-off laughs, I'm sure for some ESF-on laughs, you won't hear me complaining. Ian Eveleigh



## Fast Fleet | LONG-TERM TESTS

#### **NEW ARRIVAL**

here's a bright red Lamborghini tucked up in the garage at home and it feels good. It's also a bit of a relief, as the Countach has always been a hero car of mine and the idea of owning one had been nagging away for too long. Until recently there were plenty of reasons why I hadn't taken the plunge:

only drivers smaller than Tom Cruise

need apply, they're not very quick, the handling's rubbish - that sort of thing. But once I started to look into Countaches seriously, I discovered most of this is tosh generated by people who a) had never been anywhere near a Countach in their life, or b) were regurgitating nonsense from various internet forums.

The first big surprise was that the cabin is actually a very nice place to be, even though, at 6ft 2in, I'm considerably taller than old Top Gun himself. I don't even have the seat

on its last stop, while the steering wheel is so adjustable it's easy to get comfortable. The only issue is the low roof, but if you're my height or less and you avoid the rare electric 'comfort' seats fitted in a few Anniversary models, then you're fine.

The next shock was how quick a good QV feels. The Countach's reputation for not being as rapid as Lamborghini claimed was corrected when the 5000 QV arrived in 1985, complete with its 455bhp 5.2-litre quattrovalvole (four valves per cylinder) the examples I tried. Two things finally triggered me reaching for the chequebook. One was watching Jay Leno's excellent video of living with his QV and the other was the realisation that Countaches were starting to creep up in value. Collectors are squirreling away early LP400S versions at the moment,

VI2. Fast Lane magazine recorded

10sec to 100mph and a top speed of

190mph with a wingless example in

Italy, and that feels about right from

paying up to £250,000 a pop, but the Countach I really wanted, the QV, can still be found hiding in the classifieds for around £65,000-75,000. That looked like ridiculously good value to me, so the hunt was on.

One thing I didn't want was a 'chavvy' colour like white or yellow, but as always happens when you start looking, that was all I could find being advertised. The later Anniversary model seemed to be far more plentiful,







Above, from left: cabin is surprisingly comfortable; Harry seals the deal with seller Paul Burt (left); the QV arrives at Evo Towers

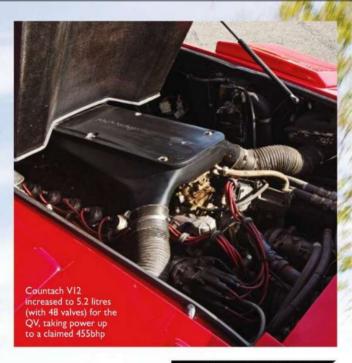


but if I was going to own a Countach, it had to be a 5000 QV.

Then, flicking through an old classic car mag one day, I noticed a really nice red QV up for auction. The auction had been back in July, so I gave the auctioneers a call to see what the car had fetched, only to discover that it hadn't actually sold. To cut a long story short, I ended up viewing and then agreeing to pay £67,000 for this very tidy 1987 example, with just 31,000 miles on the clock.

Over 1000 miles in and I'm more in love now than I was before it arrived. There are a few things to sort, like the heavy throttle and poor hot starting, but first, that wing has got to go. It dominates the looks far too much and was never an official option either. I'll explain more next month. In the meantime, if you'd like to get a taste of what riding in a QV is like, check out the video at evo.co.uk

Harry Metcalfe





# FORD CAPRI V8 Date acquired October 2001 Total mileage 876 Mileage this month 0 Costs this month £0 mpg this month n/a



Above: traces of silicone inside the V8's sump were not a welcome find

hings rarely go as smoothly as you hope with project cars. QPrep has made good progress solving the airlock problem in the cooling system, raising the header tank and taking the feed to it from the highest point of the top hose. The gauges read correctly, too, now that there are Ford sender units bolted into the Rover V8, and a calibrated check of the oil pressure brought more good news. There have been less good finds, though...

The leaky sump showed a lot of silicone sealant and when Quentin dropped the sump-pan he was concerned to find some silicone in the bottom and, at the front of the engine, the timing cover gasket inside the cover. His main worry is that the noisy hydraulic tappet might be because silicone has circulated the engine. There may be further dismantling to come.

Ending on a bright note,
Pipercross has built and supplied
an air filter with enough surface
area to feed enough slow-moving
air to a 500bhp engine, and QPrep
is in the process of finishing a neat
mount-cum-duct that will feed
it cool air from just ahead of the
radiator. It looks great.

John Barker



New Pipercross filter will keep the 5.2-litre V8 motor fed with cool air

# Fast Fleet | LONG-TERM TESTS

#### NISSAN GT-R Date acquired April 2009 Total mileage 14.532 Mileage this month 517 £723 (Performance Costs this month Friction PF-01 brake pads) mpg this month



ook part in the Wilton House Supercar Day, joining an eye-popping convoy of 130-odd supercars at Fleet Services and driving on to Thruxton race circuit, where we were allowed a few fun laps on the damp track. I was thrilled to be chasing a stunning McLaren FI GTR – and keeping up - although we were understandably driving rather tentatively (you can see the video on evo.co.uk).

From there it was a rather chaotic

amongst the tapestries. All in all, a great day out, and it raised a substantial amount for the local children's hospital.

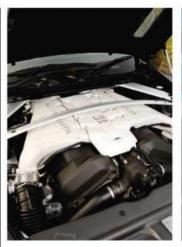
I'd been looking for some decent track-capable brake pads – the EBC Yellow Stuffs were worn and didn't really offer the bite or retardation the heavy GT-R needs. I went for some Performance Friction PF-01s.

With a very sharp bite, these take With a very sharp bite, these take delicate footwork on the road, but on the recent evo trackday Monkey Harris's borrowed GT3.

David Yu



At Thruxton, P Zilla found itself with another GTR (of the F1 variety)



ress most petrolheads and I'm willing to bet they will confess to at least a passing interest in most things mechanical, whether it be boats, bikes, planes... or helicopters.

My particular interest was sparked in 1977, the year United Artists released The Spy Who Loved Me. For a shorttrousered yours truly it was memorable not just because of the lovely Lotus Esprit SI but for the scene where the gorgeous Caroline Munro pilots the villain Stromberg's Bell Jet Ranger and strafes the Esprit in the process. That for me sparked the passion for choppers as well as supercars.

Fast-forward to earlier this year and the hunt was on for a helicopter instructor to take me through the process of acquiring the 45 hours required to hold a PPL (private pilot's licence) as well as some advanced tuition - mistakes are not something you want to make in a chopper.

A fair bit of networking later, the chap whose name kept coming up was by happy coincidence the owner of the classic Hiller 12E4 whirlybird that appeared in the 1963 Bond film, Goldfinger. Enter Rob Hields of Hields Aviation based at Sherburn-in-Elmet, near Leeds. (By further coincidence, by the time you read this the Hiller will have been auctioned with the famous Aston DB5 from the same film.)

The Hiller has carried such famous passengers as Honor Blackman, Elizabeth Taylor and Richard Burton, and Rob's face was a picture when I asked if I could have a lesson in this E-type of the chopper world instead of the usual ubiquitous Robinson R44. Fortunately the Hiller also has dual controls, which is a good job since, to a



#### ASTON MARTIN DBS

Date acquired	January 2009
Total mileage	26,734
Mileage this month	1552
Costs this month	£188 (oil & filter change)
mpg this month	13.5

student pilot, the cyclic control - which governs the forwards, backwards and sideways movement of a chopper - has about as much feel as a spoon in thick porridge. According to Rob, the Hiller is a real man's helicopter. As well as a collective - a handbrake-like device located to the left of the pilot that controls the upward and downward movement of the aircraft - it also has a twist-grip throttle which, unlike most helicopters, requires one to manually feed in the correct amount of power to enable it to lift. It's a fair old amount to take in at first, especially when you throw in the anti-torque pedals, which control the direction the chopper is facing - but not necessarily the direction it's travelling! I'll keep you posted on how things progress...

As for my own 'Bond car', I'm coming to the conclusion it's going to need some money throwing at it before the end of the year. The last nine months have seen it being hammered repeatedly round circuits up and down the UK and if I'm honest it doesn't feel quite as taut around the twisties as it once did. That said, despite its hard life it hasn't given a moment of bother, while the interior is holding up very well indeed.

It sounds especially sublime with fuse 22 removed since this allows the exhaust valves to open throughout the rev-range rather than just above 4500rpm. Well worth the couple of minutes it takes and a nice two-finger salute to the noise police.

Simon George





# SKODA YETI 1.8 TSI Date acquired July 2010 Total mileage 8423 Mileage this month 2224 Costs this month 60 mpg this month 277

know, I'm meant to be telling you about how the Yeti got on in its quest to be not-the-slowest-thing-ever around Bedford on its trackday tyres. No such luck I'm afraid – trying to find a time in the last month when Bedford, the Yeti, a photographer, me and the weather have all been aligned has proved impossible so far.

I want to get it done soon, because much though I hate to admit it, I am looking forward to taking the Dunlop Direzzas off. With high wear-rates I know I'm wasting them just commuting between home and office, while the constant drone does get to me.

There's plenty more to talk about – not much of it good, though. For starters the windscreen's cracked. Since no-one could remember a stone strike, suspicion fell on the grippy tyres putting excessive strain on the bodyshell, the additional flex causing the damage.

Happily that's not the case – close inspection revealing a tiny impact crater at the base of the screen. I've circled the end of the crack to see how fast it's expanding.

circled the end of the crack to see how fast it's expanding.

And someone's nicked the aerial. It's a damn sight easier to thieve than the last thing I had nabbed — the Jaguar XFR's boot badge — just unscrew and you're away, but it has properly upset the radio's ability to

hold a signal as you drive along. Hissing static meets tyre hum. Oh the joy.

'IT WAS A BOND FILM

THAT SPARKED MY PASSION FOR CHOPPERS AS WELL

AS SUPERCARS'

Ollie Marriage



Yeti's windscreen has been stoned, and someone's half-inched the radio aerial

# Fast Fleet | LONG-TERM TESTS

#### **NEW ARRIVAL**

won't lie: currently, this isn't the best relationship. Our new Jaguar XKR Speed Pack should be outside my door right now, waiting to whisk me in great comfort and with great speed to a meeting this afternoon. But it's not there. It's back with the menders.

I think it's a gearbox fault, but with everything now controlled by little electronic brains, it's hard to tell. What I can say is that if you hold a high gear at low revs, the car won't run smoothly, as if it isn't fuelling properly. This is the first powertrain fault I've had on a new car in ten years.

While I hadn't anticipated such a problem, this was always going to be

a pretty stern test of the XKR's powertrain, because the lag was coming to live with a very spoilt brat: me. Since April 2009, my everyday car has been fitted with AMG's superb 6.2-litre V8 and the clever seven-speed Speedtronic gearbox - first in an SL63 and latterly an E63.

On paper, the £78,995 Jaguar stacks up well: its V8 displaces far less than the one found in the Mercs, but its supercharger plumps the numbers nicely, giving 503bhp and 46llb ft. Both of these figures are slightly down on the Mercs' vast 518bhp and 465lb ft, but the AMG motor doesn't give maximum torque until 5200rpm, whereas the lag delivers its between 2500 and 5500rpm.

In practice, I haven't yet gelled with the XKR's engine and gearbox, finding

#### JAGUAR XKR SPEED PACK

Date acquired	September 2010
Total mileage	4811
Mileage this month	1301
Costs this month	£0
mpg this month	19.4

it very difficult to judge small throttle openings, especially exiting uphill T-junctions. The calibration of engine and gearbox just isn't as slick as either Merc's: the car gets caught in the wrong gear quite frequently, although with so much torque it isn't the issue it might be. The ZF 'box offers manual shifts with paddles, and blips on downshifts, but again, it isn't a patch on the Merc 'box for speed, even if it is slightly smoother in auto mode.

And then there's the styling. While I commend Jaguar for aiming at a

younger audience, to my eyes the bodykit is a step too far.

The Speed Pack adds £3500 to the price of the XKR and brings all the styling changes, a de-limit to 174mph and a re-tuned LSD. Chassis wise, it's still very much comfort-orientated not a bad thing, but it's looser than I'd hoped - and I'm surprised how numb the steering is after the E63.

But perhaps the biggest problem for me is that I've now driven the XKR 75 (evo 150), which rights all of this car's wrongs. It is faster, sharper, better damped and, in graphite, rather more discreet. In fact, it's the best sporting GT I've driven in ages, whereas the Speed Pack is so far a disappointment - which goes to show how much devil there really is in the detail.

Chris Harris

#### 'THIS IS THE FIRST POWERTRAIN FAULT I'VE HAD ON A NEW CAR IN TEN YEARS'



he DS3 is really confusing me at the moment. After more than a month with the car, I can't nail down exactly what I think about it.

When my friends ask, 'Is it good?' I reply, 'Yes, it's good, but it's not great.' Thing is, they expect it to be great, especially given its cracking looks and fancy paint job - and the good things that have been written about the DS3 in this magazine and others.

#### CITROËN DS3 1.6 DSPORT

Date acquired	August 2010
Total mileage	6261
Mileage this month	1959
Costs this month	£0
mpg this month	41.0

The ride on less than perfectly surfaced B-roads is the main issue here. The first DS3s we drove had a supple ride that just soaked up the

bumps and lumps, allowing the car to really glide over the ground. As far as we know there have been no specification changes, but as features ed Henry Catchpole says, 'This one seems a lot stiffer, so it doesn't flow in quite the same way.' Meanwhile, the turbocharged engine thumps you down the road and the tractioncontrol light flickers constantly when introducing power out of corners. In

other words, it feels like a lot of other hot hatches, and the fluid feel that set those early road-test DS3s apart from the pack seems to have been lost somewhere. It's a puzzle.

On the other hand, on an A-road, dual carriageway or motorway, it's an accomplished cruiser. The turbo may not respond instantly, but once it kicks in it treats you to a smooth, linear power delivery and gets you up



ld car ownership is proving to be an increasingly absorbing thing. Excusing conspicuous flaws as 'character' is a petrolhead trait that's always grinded on me, yet the continual discovery of new rattles or imperfect components on the Williams is a perversely intriguing one.

They really do give the car an almost human touch: the air vent that's always open, the irritating above-25mph rattle that appears when there's no passenger, and conversely, the disquieting hum north of 3000rpm that's only present when showing the car off to friends and family.

It all adds up to an experience more involving than that offered by my longterm Fiesta, which the Willy is drawing my attention away from a little too much at the moment.

Still, the impending winter weather should ensure the Renault stays tucked up in bed more frequently. While fairly stable (and good fun) in the wet, the lack of ABS and traction control is a minor weight on both my and co-owner Adam Shorrock's shoulders. as is the thought of rain, snow and council salt and grit destroying the sweet condition of the Clio's chassis and wheelarches.

A Waxoyl treatment beckons to help combat the latter, joining a job list that includes treating the paintwork's scratches and chips, a refurb for the alloys and a stereo fitting - hopefully a simplistic, none-too-flash item that sits well with a '90s dashboard.

Anyone with suggestions for the above - or fellow Williams owners wishing to share their experiences email stephend@evo.co.uk

Stephen Dobie

#### PENALIT CLIO WILLIAMS

Date acquired	September 2010
Total mileage	84,482
Mileage this month	759
Costs this month	£0
mpg this month	34.3



Above: Clio's slightly archaic dash awaits a new stereo. Top: wet weather means the Williams will soon be used less often

to speed nicely. And the fuel economy is exemplary - at the end of a recent 250-mile round trip, the tank was still over a quarter full, with the on-board computer showing a 41mpg average.

It's a shame it isn't as adept on smaller roads, especially as these are often the ones that are more satisfying. I guess this is one of the things that can separate a good car and a great one.

**Adam Shorrock** 

#### VAUXHALL INSIGNIA VXR

just love them? The Insignia has one of these irritating little switches instead of a conventional handbrake. It's supposed to press the brake pedal to disengage stop the car rolling back - except Handbrake | wonder, are the advantages? | Peter Tomalin

#### FORD FIESTA ZETEC S

enough place to spend time (the seats are mega), at typical cruising speeds the Zetec S feels fidgety, the ride unsettled and the direct steering almost too sharp. In the absence of a sixth gear, 80mph is more than halfway round the rev-range, so fuel economy is a tad is the motorway norm.

Stephen Dobie

#### PEUGEOT 306 RALLYE

I'm starting to get frustrated. How hard can it be to buy a pair of Cyclone wheels to replace the two damaged rims on my Rallye? Nigh on impossible if my experience of being let down by eBay sellers, small ads and other outlets is anything to go by. My mood wasn't improved by the £205 road tax renewal this month, either.

Ollie Marriage

#### VW SCIROCCO 2.0 TSI

t's been a quiet month for the taking over as my daily drive (see page 143). It's hard to ignore the stylish little bright green coupe in to leave us. If you've got one, we'd love to hear from you (see below).

Chris Rutter

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# LONG-TERM TESTS | Fast Fleet

#### TVR GRIFFITH

he Griff is finally ready to pick up after its engine rebuild. It's taken a while, as a new block had to be sourced and then machined to Griff 500 spec. While all that was being done, I had the exhaust manifolds powder-coated by Woof

Harry Metcalfe



t's been an expensive month, with the M3 needing a litre of synthetic oil that's champagne-pricey and as hard to find as Lord Lucan, plus can of tyre sealant. There'd been a slow puncture in a rear Michelin, but happily we'd had the wear out though, and it made a right mess of John Barker

#### PEUGEOT 106 RALLYE

ronically, I've barely driven the Rallye since its successful visit to Superchips last month. A busy schedule is partly to blame, as are some good drives in my 911. I've also bought another car. It's Italian, was made in 1966 and is very sweet. To paraphrase Rolf Harris, can you guess what it is yet?

Richard Meaden

#### LAMBORGHINI LP640

pent half an hour the other day going over every one of the big Lambo's panels trying to decide given its hard time on track this year. Gave up in the end and have a top-to-toe repaint. Might even give it the SV look with matt black lower panels. Decisions... Simon George

#### fastfleet@evo.co.uk

Got one of the models featured on our fleet? We'd love to hear about your experiences.

#### MAZDA 3 MPS May 2010 Date acquired Total mileage Mileage this month 1683 Costs this month mpg this month

ith sub editor lan Eveleigh taking on our new Infiniti, and the Scirocco due to leave us in the next month, I've adopted the Mazda 3 and will be running it for the remainder of its time with evo. As a photographer's car, it won't be getting an easy ride though. It will need to accommodate all of my kit and cover some substantial distances in total comfort. Perhaps most importantly, as I love a decent drive as much as anyone, it'll need to entertain as well as be practical.

The Mazda has already been on one holiday in the hands of art director Paul Lang, and now it's been on a

second, as I decided that a week in Wales would be a great opportunity to get acquainted with my new long-termer. With only two people to transport, there wasn't loads of luggage to accommodate and the Mazda's boot easily dealt with our bags and some basic camera kit. But I'll have plenty of time to discover how good a load-lugger the MPS is; I was far more interested in finding out how this 256bhp hatch drives.

The engine dominates your first impressions. At lower revs it does feel a little flat until the turbo gets going, but as long as you keep the revs above 3000 it's a punchy and powerful unit with a slightly offbeat exhaust note. From inside the car, the noise is muted, but by coincidence I heard and then saw another 3 MPS accelerating enthusiastically on the road outside the cottage we were staying in and it sounded pretty good.

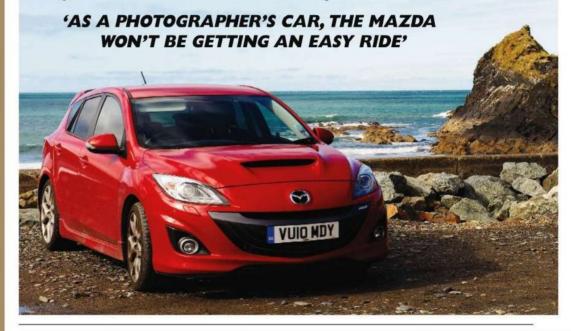
As Ev found out, the handling

and traction are good on smooth roads, but venturing onto some of the bumpy single-track ones around the Pembrokeshire coast it soon became apparent that the MPS's front wheels have a tendency to scrabble for grip, and the steering isn't the most communicative either, especially around the straight-ahead.

The same roads also showed up how firm the suspension set-up is. It's not that it's uncomfortable, and it doesn't crash over large potholes, but bumps and imperfections are transmitted into the car and through the steering, making it feel more frantic and fidgety than it could be.

So I'm still not sure how well the Mazda will deal with my day-to-day needs, but the slightly old-school power delivery of the turbocharged engine certainly has the ability to put a smile on my face, which has to be a good thing.

Chris Rutter



ur resident Welshman with a video camera, Dafydd dashing between jobs for evo.co.uk in my Swift for the last month. So I gave him a call to find out how he'd been

getting on.

'Well, boyo,' he began, 'the locking thing [I think he means the keyless entry system] has been well annoying.'
I know what he means – if you unlock the boot, you then have to lock

it again before the car will let you open either of the doors.

But what did he think about the way the Swift drives? 'It was a bit of a grind on the M4,' Dai revealed, 'but as soon as you get it on a valley road, it's brilliant, and I'll tell you for why – it's because the engine is really urgent. It just likes to be revved as hard as possible. When I got in the wife's Cooper S afterwards it didn't feel nearly so enthusiastic.'

#### SUZUKI SWIFT SPORT

February 2010	
11,390	
1311	
£0	
35.1	

So it seems as though the Swift Sport's joie de vivre has found another fan. Dai summed up the car in a single word: 'Tidy.'

Henry Catchpole



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BUYING GUIDE \_\_

# **FIAT PANDA 100HP** Our favourite Italian supermini for under £5K Fun, funky and economical, this fabulous little Fiat is also an absolute bargain secondhand. We help you find a good example



#### **CARS FOR SALE**

We all love browsing the classifieds, but what are the cars actually like to drive? This month we try a familiar-looking GT3 and a bargain-priced GT-R



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# Panda 100HP

The Fiat Panda 100HP may be small but it punches well above its weight. Here's what to look for if you want some affordable Italian fun

t's a given that when it comes to building cars with heart and soul, the Italians are unsurpassed, and while they're certainly not the only car-building nation to implant high-performance engines into mundane models, they do tend to do so with a passion and flair that is unique.

Cast your mind back to models such as the Fiat Strada

Abarth and Uno Turbo and the Lancia Delta HF Turbo — everyday runabouts with levels of performance that seemed pretty outrageous at the time, yet simultaneously practical and rewarding to drive. However, they weren't always a good secondhand buy, with an often well-deserved reputation for poor build quality and dubious reliability that would frequently lead to an early demise...



#### Words Jim Blackstock Pictures Matt Vosper

Thankfully the Fiat Panda 100HP does not suffer like its predecessors, yet otherwise it follows a similar formula. Here is a largely uninspiring city car endowed with a 99bhp 1.4-litre engine, a 6500rpm red line and a six-speed gearbox to make the most of it. Body styling is from the best school of stick-on addenda, with black plastic wheelarch extensions, revised front and back bumpers, darkened 'privacy' glass at the rear and fatter 15in rims giving the baby Fiat some degree of presence.

It goes without saying that the chassis is a significant step ahead of the base Panda, with lowered and tightened suspension and the addition of a 'Sport' button in the dashboard, replacing the more familiar 'City' version. While the City mode gave even more assistance to the steering for tight, urban roads, the Sport version removes it, firming the feel and giving better feedback to the driver. It also sharpens the throttle response, which is something of a double-edged sword - great on the open road but annoying if left on around town.

You can't help but smile, though. Responsive and willing,

in a car that weighs less than a ton, the 1.4 delivers all the performance you need to ensure the warm (you could never genuinely describe it as 'hot') Panda is nothing but fun on a good B-road. Sure, motorways are never going to be a relaxed experience in something so small, firmly sprung and raw, but that's not what the Panda's about. Point it at some twisty tarmac and it comes alive.

The key to getting the most from the IOOHP is to use only the right-hand pedal and avoid the middle one at all costs. Keep the speed up entering a corner, let the suspension dig in, the tyres bite, and drive it through. Understeer makes fewer appearances than you'd expect and the chassis remains remarkably composed and predictable. The Panda's limits are not only a lot further away than you'd imagine, there is also plenty of warning as you begin to approach them.

The result is a grin-inducing drive that truly embodies everything we love about small Italian performance cars. Oh, and did we mention this can all be had for the same price as a reasonable family holiday?



#### **SPECIFICATION**

Engine	In-line 4-cyl 1368cc
Max power	99bhp @ 5800rpm
Max torque	97lb ft @ 4250rpm
Transmission	Six-speed manual,
	front-wheel drive
Tyres	195/45x15 front and rear
Weight (kerb)	975kg
Power-to-weight	I03bhp/ton
0-62mph	9.5sec (claimed)
Top speed	115mph (claimed)
Price new	£11,005 (today)

#### PARTS PRICES

Tyres (each)	£77.27
(Goodyear	Eagle F1, fitted)
Brake pads (front)	£58.50
Brake discs (front, each)	£88.04
Clutch, complete	£85.82
Flywheel	£182.90
Oil filter	£10.82
Air filter	£17.80
Spark plugs (set of four)	£34.92
Exhaust system	£324.58

#### SERVICING

Minor service (12K miles/annual) Major service (24K miles/2 years) £160

£140

#### WHAT TO PAY

Cambelt change (72K miles/3-5 years)

The Panda 100HP has never been an expensive car. Today a new one lists at £11,005, but you can easily find just-registered examples with delivery miles for less than £10,000. A 12-month-old car with low miles is likely to be priced under £8000, and if you go another year older you should be looking around the £6000 mark, particularly through a private seller. The earliest 100HPs, from either very late 2006 or early 2007, can be picked up for less than £5000. That's a lot of fun for your money.

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As part of the measures to keep the Panda's price low, its paint is relatively thin, so stone chips that go down to the metal are common

#### **CHECKPOINTS**

We spoke to Paul Brunskill at Fiat Auto Specialist Team (FAST) and Paul Wright at F for FIAT, who highlighted the known issues so far, bearing in mind that most 100HPs won't even have had their first MOT yet.

#### Engine

The 1368cc 'FIRE' unit is reasonably robust but, according to Paul Wright, the coolant needs looking after. 'The anti-freeze concentration and coolant levels must be kept up to date, otherwise the engine has a habit of head gasket failure.'

Paul Brunskill adds that the timing belt tension should be checked at the third service (at 36,000 miles) and if it requires re-tensioning, then replacement is the preferred option.

#### Transmission

There are no known major issues with the transmission, although the Panda, like much of the Fiat range, does tend to go through clutches more quickly than cars from other manufacturers.

Brunskill says that most Fiat gearboxes leak slightly where the sections of the casing are joined. As a rule, slight leaks don't cause problems, but be wary of heavy leaks here.

#### Suspension, brakes, etc.

Many owners report wheel alignment problems with the Panda, and according to Paul Wright it isn't the only Fiat with this issue. 'The tolerances for the tracking tend to be quite loose compared with some other brands,' he says. Front tyres can wear unevenly even when the tracking is within the stated tolerances, so a check and a re-set to take it close to the centre of the allowed range tends to be the usual cure.

Wright says that leaking dampers can be a problem, too. 'There is a weld in the damper that tends to rust and fail, causing the seals to leak. This could be an MOT failure, as well as affecting the ride quality.'

The Panda's rear suspension bumpstops are poorly attached from new so tend to fall off regularly. Again, this could be an MOT failure if they come loose, but it's a straightforward fix.

One of the biggest criticisms of the 100HP is the electrically assisted steering and the degree of assistance provided. Many believe there isn't enough steering feel, even in Sport mode. Worse, the technology involved can also give rise to problems. Paul Brunskill explains:

'The steering column is surrounded by the motor that provides the assistance, as well as the position sensor and the ECU for the system. Any of the three can fail.'

Brakes can also be quite noisy, particularly when reversing. However, a quick and easy fix is to add some copper grease to the back of the pads when re-fitting them. A set of modified pads from a Punto can also cure the problem.

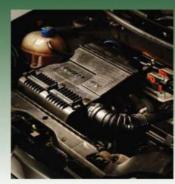
#### Bodywork

The quality and quantity of paint on the Panda leaves something to be desired, so stones that might ordinarily bounce off the bodywork can easily chip down to bare metal.

#### Interior

Driver seats can show signs of wear quickly, particularly in the lumbar region. There's a padded metal bar running across the seat back and if the padding becomes loose, the bar can pierce the seat covering.

There are also some issues with the electrics (for example, one known fault is where the headlights switch off when the indicators are used), so check everything works.



Above: engine is generally strong. Left: electrics can be troublesome; Sport button (inset) adds weight to steering

#### I BOUGHT ONE



#### IOE ALEXANDER

Joe bought his Panda 100HP brand new two years ago and explains the attraction.

'I'd been driving a Fiat Brava that I "acquired" from my mum when I passed my test, but with I40,000 miles on the clock it was on its last legs. I was looking for something that was fun but on a relatively tight budget. I tested a I00HP and was sold instantly.

'I managed to get a fantastic deal from the dealer – the car was listed at just over £10,000 and I got mine for exactly £8000 in early 2008.

### 'You don't use the brakes or even lift'

'I love everything about it — the way it looks, the handling and the engine. My work commute takes 30 minutes and I always, without fail, go cross-country. The car's OK on the motorway but if there's a route that avoids them or dual carriageways, I'll choose that — it's what it's made for.

'I love using the engine, right up to the red line. It's great in first, second and third, but after that, it's a bit rubbish. Round the lanes, though, that's all you need. With the Panda's chassis, you don't use the brakes or even lift — you keep the speed up and throw it around. Brilliant fun...'

#### USEFUL CONTACTS

www.fiatalfaspecialist.co.uk (specialist) www.fforfiat.co.uk (specialist) www.fiatforum.com (owners' forum) www.fiatmotorclubgb.com (owners' club) www.pistonheads.com (cars for sale)

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# Just looking...

#### PORSCHE 911 (996) GT3

■ Price £39,995 ■ Year 1999 ■ Mileage 37,255
■ Vendor Paul Stephens, Essex (www.paul-stephens.com) ■ Engine Flat 6-cyl, 3600cc
■ Max power 360bhp @7200rpm ■ Max torque 273lb ft @ 5000rpm
■ 0-60mph 4.5sec ■ Top speed 187mph (claimed)

Ah, this brings back good memories. Back in 1999, this was **evo**'s Car of the Year. And I don't mean the model, I mean this actual car, registration T670 CBL. Some of you may even recall shots of a youthfullooking Meaden sliding it around a damp and slithersome Knockhill. The 996 GT3 mkI was the first of the GT3 line, and, in the opinion of some, the best of the lot.

I recall some mild disappointment that it wasn't properly lightweight, but you only had to glimpse its track-spec brakes and lowered ride height, feel and hear the extra edge of its motorsport-bred 360bhp 3.6-litre water-cooled flat-six (up 60bhp on a regular Carrera) to know it was made of special stuff. T670 CBL, currently for sale at Porsche specialists Paul Stephens, was built to 'Club Sport' spec, so it has the cloth-covered Recaro buckets and the half-cage, but this one

was also ordered with air-con and stereo to keep namby-pamby journos happy, so it's everyday useable.

It always rode incredibly low, the 18in alloys pushed well up into the arches, but on a typical B-road today there's more compliance than you'd imagine and it never feels crashy. It also feels structurally immensely tight. There's a more exaggerated bobbing of the nose than in the current car, and lighter - and even more feelsome - steering too. The engine is just epic. Get it in the higher reaches of the rev-range, above about 5000rpm, and it makes a real lunge for the red line. the note turning all feral. The gearbox is slightly balkier than I remember, requiring deliberate precision, and the brakes take a bit of warming up. But then this is a serious driving machine. It was in 1999, and it still is today.







#### SUMMARY

#### EXTERIOR

Original and unmolested. Arctic silver paint still excellent, ditto the split-rim 18in alloys

#### INTERIOR

Cloth-covered Recaro buckets, half-cage...

#### MECHANICALS

Engine pulls beautifully at high revs; no nasty clonks or vibrations. Warranty available

#### SHOULD I BUY IT?

If you want a truly great drivers' car (and a piece of **evo** history to boot), emphatically yes

- FOR: Fabulous to drive, everyday-useable, and a potential investment too
- AGAINST: 996 wasn't the greatest looking
   911. Not everyone wants an ex-press car...

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# Just looking...

#### NISSAN GT-R BLACK EDITION

■ Price £49.950 ■ Year 2009 ■ Mileage 4000

- Vendor Top555 Performance Cars, Oakham, Rutland (www.top555.com / 01572 774830)
   Engine V6, 3799cc, twin-turbocharged Max power 478bhp @ 6400rpm
  - Max torque 433lb ft @ 3200rpm 0-60mph 3.9sec Top speed 193mph

From one **evo** Car of the Year victor to another. Ten eCotys separate the Porsche 911 GT3 on page 151 and this nearly-new Nissan GT-R, yet just £10,000 splits them on price. And both are seriously tempting propositions.

As second-hand GT-Rs come, this has to be one of the most desirable. With 4000 miles, it's just nicely run-in, while it's been serviced twice, including its mandatory 1200-mile check-up.

It's a well-equipped GT-R Black Edition and comes in Ultimate Silver, which is a pretty stunning colour up close, and well complemented by the smart 20in smoked alloys. The interior boasts black leather and suede seats with red trim, a touch that lifts a cabin not exactly dripping in character. Everything is in factory-fresh condition inside and out.

And it's absolutely belting to drive.

While that's no surprise for such a clean example of a car known for its crushing capability, I was still taken aback. It feels like another GT-R with rather more than the claimed 478bhp, while the fitment of a Milltek exhaust gives the twin-turbo V6 a much throatier war-cry than standard, without sounding tastelessly aftermarket.

Top555 have sold a number of Nissan GT-Rs, reporting that many of their enthusiast customers have one alongside their Ferraris and Porsches. With a lot of owners having fulfilled their need and now wanting to move on, though, the used market is starting to fill up.

A saving of over ten grand on current new prices takes this car well below BMW M3 money, and with similar space and practicality mated to so much extra pace and four-wheel-drive all-weather ability, it's a very tempting alternative, **SD** 





#### SLIMMARY

#### EXTERIOR

Absolutely spotless, and with a great colour/ alloy wheel combination

#### INTERIOR

As new, and with the ambience lifted by the Black Edition's great seats and red trim

#### MECHANICALS

Feels even more powerful than Nissan claims, while the Milltek exhaust adds character

#### SHOULD I BUY IT?

If a ballistically quick all-weather sports coupe's what you're after, yes

- FOR: Nearly-new supercar-killer for less than new M3 money
- AGAINST: Might lack personality for some...



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KEY: Issue no: the issue of evo featuring our most recent major test of the car (R = Road test or group test with figures, D = Driven, F = Feature article). You can order back issues of some issues where still available – call 0844 8440039 for details. Price is on-the-road including VAT and delivery charges. Weight is the car's kerb weight as quoted by the manufacturer. Bip/ton is the power-to-weight ratio based on manufacturer's kerb weight. 0-60 and 0-100 figures in bold are independently recorded, all other performance figures are manufacturers' daims. EC mpg is the official 'Combined' figure or equivalent.\* = grey import. Entries in italics are no longer on sale. While every effort has been made to ensure the accuracy of entries, some errors may have crept in. Please send comments/corrections to stephend@evo.co.uk

\* New entries this month. STAR RATINGS: \* Thrill-free zone \*\* Tepid \*\*\* Interesting \*\*\*\* Seriously good \*\*\*\*\* A truly great car



#### SUPERMINIS/HOT HATCHES



OUR CHOICE Renaultsport Clio 200 Cup. After the mild disappointment of the Clio 197, Renaultsport has got the Clio back to its very best, producing a cracking small hot hatch more than capable of chasing down supercars on eCoty 2009 for a top five finish.

Best of the Rest: The Ford Focus RS (right) is rabidly quick and totally involving, while VW's grown-up Golf GTI and Mini's mad JCW also appeal. Further down the ladder, the Fiat Panda 100HP, Renault Twingo 133 Cup and Suzuki Swift Sport are all evo favourites.



149 F 129 R 132 D 149 F 144 D	£16,500 £16,100 £15,045 £17,895	4/1368 4/1368 4/1368	161/5500 158/5750	184/2250 170/3000	1155kg 1035kg	142 155	7.9	100000	132	-	8	Attractive and fun - Needs the upcoming Esseesse power upgrade     A properly fun, old-school hot hatch - Limited numbers being imported	***
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149 F			153/5500	170/3000	1145kg	136	8.0	20,4	134	10	43.5	+ So close to being a modern-day Alfasud - But not close enough	***
		4/1368	168/5500	184/2500	1145kg	149	7.5		136	10	47.1	+ Great MultiAir engine, impressive ride - Not as feisty as we hoped	***
144 0	£19,495	4/1368	168/5500	184/2500	1290kg	134	7.8		135		48.7	Has the equivalant VW Golf covered - An Alfa for your head, not your heart	
144 D	£24,495	4/1742	232/5500	251/1900	1320kg	179	6.8	-	150		37.2	+ Shows signs of deep talentbut should be more exciting	***
144 0	01-'09	4/1970	150/6300	134/3800	1270kg	120	9.3	-	129	14	31.7	+ Fantastic looks, engine and handling - Build quality still lacking	***
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020 R			102/6000	107/4000	976kg					8	38.2	Better than you'd ever believe - No-one else will believe it	****
075 D			148/6000	140/4500	1137kg		7.9			15	38.2	+ Great looks, decent brakes - Disappointing chassis, gutless engine	***
115 R			185/6700		1137kg		6.9	150		-	85	+ Fiesta ST gets the power it always needed - OTT exhaust note	****
119 R	£22,895	5/2522	222/6000	236/1600	1392kg	162	6.7	16.8	150	17	30.4	+ Value, performance, integrity - Big engine compromises handling	****
137 R	c£23,595	5/2522	256/5500	295/2500	1392kg	187	5.8	14.3	155	-	8	+ ST takes extra power in its stride - You probably still want an RS	****
139 R	£27,895	5/2522	300/6500	324/2300	1467kg	208	5.9	14.2	163	19	30.5	+ Huge performance, highly capable fwd chassis - It could be the last RS	****
146 R	£35,750	5/2522	345/6000	339/2500	1467kg	239	5.6	12.7	165		5	+ More power and presence than above - Pricey (and all sold!)	****
053 R	'02-'03	4/1998	212/5500	229/3500	1278kg	169	5.9	14.9	744	16		+ Some are great - Some are awful (so make sure you drive plenty)	***
011 F	'92-'96	4/1993	227/6250	224/3500	1304kg	176	5.8	-	143	20	24.5	+ The ultimate Essex hot hatch - Ultimate trophy for tea leaves	****
095 F	197-102	4/1679	123/6300	116/4500	1041kg	120	8.6	27.6	122	12	38.2	+ Everything - Nothing. The 1.4 is worth a look too	****
016 F	'00-'01	4/1679	153/7000	119/4500	1174kg	132	7.8	23.2	137	15	34.7	+ Exclusivity - Expense. Standard Puma does it so well	***
102 R	£20,620	4/1998	198/7800	142/5600	1267kg	158	6.8	17.5	146	16	31.0	+ Looks great, VTEC more accessible - Steering lacks feel, inert balance	***
144 F	£38,599	4/1998	237/8300	157/6250	1233kg	195	5.9	-	155	-	-	+ Fantastic on road and track - There'll only be 20, and it's a tad pricey	****
126 D	'09-'10	4/1998	198/7800	142/5600	1267kg	158	6.6		146		31.0	+ Limited-slip diff a welcome addition - It's not available on standard car	****
075 R	'01-'05	4/1998	197/7400	145/5900	1204kg	166	6.8	16.9	146	17	31.7	+ Potent and great value - Looks divide opinion, duff steering	****
011 F	'88-'93	4/1995	210/5750	220/3500	1350kg	158	5.7		137	18	23.9		****
132 F	£12,630	4/1498	102/6000	101/4000	1030kg	107	10.4	-	117	5	49.6		***
137 R	£22,595	4/2261	256/5500	280/3000	1385kg	188		14.5	155	17	29.4		****
106 R	'07-'09	4/2261	256/5500	280/3000	1410kg	184	6.1	14.3	155	17	29.1		***
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	Issue no.	Price	Engine	Bhp/rpm	Lb fe/rpm	Weight	Bhp/ton	0-60mph	0-100mph	Max mph	Ins group	EC mpg	<b>evo</b> rating	
Mini John Cooper Works	137 F	€21,670	4/1598	208/6000	206/1850	1205kg	175	6.5	+	148	.17	40.9	+ Most exciting new Mini yet - Occasionally just a little too exciting	***
Mini Cooper S Clubman	110 D	£18.075	4/1598	172/5500	192/1700	1280kg	137	7,6		139	-	44.8		***
Mini JCW Clubman	137 D	£22,770	4/1598	208/6000	207/2000	1280kg	165	8.8	-	148	17	40.4		***
Mini Cooper 5 Works (Mk2)	111 F	'07-'08	4/1598	189/6000	199/1750	1130kg	170	7.6	18.0	145	2.	200		***
Mini Cooper S Works GP	144 F 077 R	106	4/1598 4/1598	218/7100 168/6000	184/4600 155/4000	1090kg 1140kg	203 143	6.5 7.8	19.9	149	15	32.8 33.6		***
Mini Cooper S (Mk1) Mini Cooper S Works (Mk1)	074 D	03-06	4/1598	210/6950	181/4500	1140kg	187	6.6	17.7	143	19	33.0		***
Mitsubishi Colt Ralliart	132 F	£12,849	4/1468	147/6000	155/3500	1060kg	141	7.4	-	131	14	40.9		***
Mitsubishi Ralliart Sportback	121 D	€21,649	4/1998	237/6000	253/2550	1540kg	156	7.0		143		-		***
Nissan Micra 160SR	084 R	'05-'08	4/1598	108/6000	112/4400	1024kg	107	9.8	2	114	6	42.8		
Nissan Sunny GTi-R		'92-'93	4/1998	220/6400	197/4800	1269kg	176	6.1	*	134	20	25.1		***
Peugeot 106 Rallye (Series 2)	095 F	'97-'98 '94-'96	4/1587	103/6200	97/3500 80/5400	865kg	121 123	9.3		121	11	34.0		***
Peugeot 106 Rallye (Series 1) Peugeot 106 GTI 16v	034 R	197-104	4/1587	120/6600	107/5200	826kg 950kg	128	7.4	22.2	127	13	34.9		***
Peugeot 207 GTI THP 175	105 F	'06-'09	4/1598	172/6000	195/1600	1325kg	132	7.1	-	137	15	39.2		***
Peugeot 205 GTI 1.9	095 F	88-91	4/1905	130/6000	119/4750	910kg	145	7.9	-	124	14	36.7		***
Peugeot 306 GTI-6	020 R	'93-'01	4/1998	167/6500	142/5500	1215kg	139	7.2	20.1	140	16	30.1		***
Peugeot 306 Rallye	095 F	'98-'99	4/1998	167/6500	142/5500	1199kg	141	6.9	19.2	137	16	30.1		***
Peugeot 309 GTI	100 5	'89-'92	4/1905	130/6000	119/4750	985kg	134	8.3	-	124	13	28.2		***
Renault Twingo GT Renaultsport Twingo 133 Cup	108 F 132 F	£10,695 £12,100	4/1149 4/1598	99/5500 131/6750	107/3000	980kg 1049kg	102 127	9.8	•	117	5	47.9		***
Renault 5GT Turbo	123 F	187-191	4/1397	120/5750	122/3750	831kg	146	7.8		120	14	28.4		***
Renaultsport Clio 200 Cup	139 R	£16,710	4/1998	197/7100	159/5400	1204kg	166	6.6	16.7	141	15	34.4		***
Renaultsport Clio 197 Cup	115 R	'07-'09	4/1998	194/7250	158/5550	1240kg	161	6.9	-	134	15	33.6		***
Renaultsport Clio 182	066 R	'04-'06	4/1998	180/6500	148/5250	1110kg	165	6.6	17.5	139	16	34.9		***
Renaultsport Clio 182 Cup	074 D	'04-'06	4/1998	180/6500	148/5250	1090kg	168	6.5	-	139	16	34.9		***
Renaultsport Clip Trophy	095 F 048 R	105-106	4/1998	180/6500 170/6250	148/5250	1090kg	168 171	6.6	17.3 17.7	140	16	34.9		***
Renaultsport Clio 172 Cup Renaultsport Clio V6 255	057 R	03-05	6/2946	255/7150	221/4650	1011kg 1400kg	182	5.8	17.7	153	20	23.0		***
Renaultsport Clio V6	029 F	'99-'02	6/2946	230/6000	221/3750	1335kg	175	5.8	17.0	145	20	23.0		***
Renault Clio Williams	095 F	193-196	4/1988	150/6100	126/4500	981kg	155	7.6	20.8	121	17	26.0		***
Renaultsport Mégane 250 Cup	139 R	£23,160	4/1998	247/5500	251/3000	1387kg	181	6.1	14.6	156	17	33.6		***
Renaultsport Mégane R26.R	125 F	08-09	4/1998	227/5500	229/3000	1220kg	189	5.8	15.1	147	+	-		***
Renaultsport Mégane 230 R26	102 R	'07-'09	4/1998	227/5500	229/3000	1345kg	171	6.2	16.0	147	**	V0.5		***
R'sport Mégane dCi 175 Cup Renaultsport Mégane 225 Cup	119 R 087 F	'07-'09 '05-'09	4/1995	173/3750 222/5500	265/2000 221/3000	1470kg 1345kg	119	6.5	23.5	137	12	43.5 32.1		***
Renaultsport Mégane Trophy	087 F	'05	4/1998	222/5500	221/3000	1355kg	166	6.7	17.3	147		32.1		***
SEAT Ibiza FR	134 D	€15,670	4/1390	148/5800	162/1250	1167kg	129	7.7	-	130	41	44.8		***
SEAT Ibiza FR TDI	144 F	£16,610	4/1968	141/4200	236/1750	1245kg	115	8.2	+	131	+:	61.4	+ Even more fun and frugality - Almost as pricey as the Cupra	***
SEAT Ibiza Cupra	139 R	€17,020	4/1390	178/6200	184/2000	1172kg	154	6.9		140		44.1		***
SEAT Ibiza FR	066 D	'04-'08	4/1781	150/5500	162/2000	1154kg	132	8.4	-	134	13	38.8	The state of the s	***
SEAT Ibiza Cupra SEAT Leon FR	104 F 131 D	'04-'08 £19,900	4/1781 4/1984	178/5500 208/5300	181/2000 206/1700	1248kg 1334kg	145 158	7.1		143	15	35.3 35.8		***
SEAT Leon Cupra	105 F	€21,500	4/1984	237/5700	221/2200	1375kg	175	6.3		153	17	34.0		***
SEAT Leon Cupra R	139 R	€25,205	4/1984	261/6000	258/2500	1375kg	193	6.1	14.0	155	-0	34.0		***
SEAT Leon Cupra 20v T	020 R	'00-'06	4/1781	178/5500	173/5000	1322kg	137	7.7		142	16	33.2		***
5EAT Leon Cupra R 225	067 R	'03-'06	4/1781	222/5900	206/2200	1376kg	164	6.9		150	17	32.1		***
Skoda Fabia vRS (Mk2)	146 D	€15,700	4/1390	178/6200	184/2000	1218kg	148	7.3	- 2	139	-	45.6		***
Skoda Fabia vRS (Mk1)	077 F	104-107	4/1896 4/1998	130/4000	229/1900	1315kg	100	9.6	-	127	9	55.4 37.7		***
Skoda Octavia vRS (Mk2) Skoda Octavia vRS (Mk1)	085 D 032 D	£19,380	4/1781	197/5100 180/5500	206/1700 173/1950	1395kg 1354kg	135	7.3		149	16	35.3		***
Smart Fortwo Brabus	110 D	£14,300	3/999	97/5500	104/3500	780kg	126	9.9	-	95	5	52.3		***
Subaru Impreza WRXS	125 D	£21,790	4/2457	251/5400	288/3000	1395kg	180	5.5		130	-	-		***
Subaru Impreza STI	118 R	£27,590	4/2457	296/6000	300/4000	1505kg	200	5.1	12.7	155		27.4		***
Subaru Impreza STI 330S	124 F	€32,290	4/2457	325/5400	347/3400	1505kg	219	4.4		155	*	-		***
Subaru Impreza STI CS400	146 R	€49,995	4/2457	395/5750	400/3950	1505kg	267	4.6	10.7	155	-	-		***
Suzuki Swift Sport	132 F	£12,740	4/1586	123/6800	109/4800	1105kg	113	8.9	1	124	9	39.8		***
Toyota iQ 1.33 Vauxhall Corsa VXR	129 D 104 F	£11,995 £18,145	4/1329 4/1598	97/6000 189/5850	92/4000 192/1980	930kg 1166kg	106 165	11.8	-	106	3 16	58.9 35.8		***
Vauxhall Astra 1.6T SRi	138 D	€21,005	4/1598	178/5500	169/2200	1305kg	139	7.8		137	16	36.7	+ Cracking chassis - Looks dull, optional FlexRide suspension disappointing	
Vauxhall Astra VXR	102 R	£22,875	4/1998	237/5600	236/2400	1393kg	173	6.7	16.7	152	17	30.7		***
Vauxhall Astra VXR 888	127 D	£26,573	4/1998	295/4650	317/4250	1393kg	215	5.1	-	160	-	-	+ Crazy power, chassis copes admirably - Lacks exploitability of Mégane R26	
VW Lupo GTI 6-spd	036 D	'00-'05	4/1598	125/6500	112/3000	978kg	128	8.3		127	11	38.2	+ Looks, performance, snappy gearshift - Lacks fizz of 106 GTi	***
VW Golf GTD [Mk6]	133 D	£23,645	4/1968	168/4200	258/1750	1329kg	128	8.1	-	138	15	50.4		***
VW Golf GTI (Mk6)	139 R	€24,295	4/1984	207/5300	207/1700	1318kg	160	6.4	16.5	149	17	38.7		***
VW Golf R [Mk6]	140 D	€30,345	4/1984	266/6000	258/2500	1521kg	178	5.5	-	155	-	33.6		
VW Golf GTI (Mk5)	102 R	'05-'09	4/1984	197/5100	207/1800	1336kg	150	6.7	17.9 15.2	145	17	261		***
VW Golf R32 (Mk5) VW Golf R32 (Mk4)	087 F 053 F	'06-'09 '02-'04	6/3189	246/6300 237/6250	236/2500 236/2800	1510kg 1477kg	165 163	5.8	16.3	155 154	- 1	26.4		***
VW Golf GTI 16v (Mk2)	0007	88-92	4/1781	139/6100	124/4600	1111kg	127	8.0	70.5	124	15	28.8		***
VW Golf GTI [Mk1]	095 F	182-184	4/1781	112/5800	109/3500	840kg	135	8.1	-	112	-	36.0		***
Volvo C30 T5 R-Design	122 R	£21,405	5/2521	227/5000	236/1500	1347kg	165	6.6	16.9	149	16	32.5	+ Good-looking, desirable Volvo - Lacks edge of best hatches. Avoid auto	***

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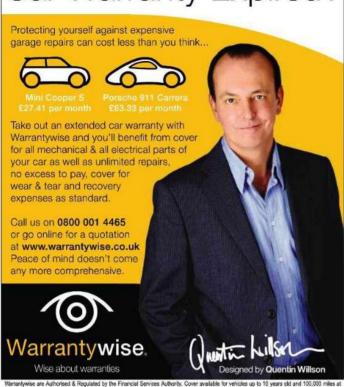
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Fuel consumption figures for the Saab 9-3 Aero Carlsson range in mpg (litres/100km): Urban 15.7 (18.0), Extra-urban 38.2 (7.4), Combined 25.0 (11.3), CO<sub>2</sub> emissions 269g/km. Model shown Saab 9-3 Aero Carlsson 2.8 V6 (280PS) automatic 6 speed at £26,495 Man. Rec. OTR. Limited stock available.

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#### SALOONS/ESTATES/4X4s



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Best of the Rest: The IS-F is the M3's unnatural rival: a Lexus with a glorious high-revving V8 and playful rear-drive. Moving up a size, we heartily recommend the Jaguar XFR (right) with its supercharged V8, while the Mercedes C63 AMG is our fast estate choice.



THE RESIDENCE PROPERTY OF THE PERSON OF THE		and co	rrect. W	hat's not t	o like?		1900 0100		the l	Merce	des	C63 /	AMG is our fast estate choice.	
Alfa Romeo 156 GTA	045 F	'02-'06	6/3179	247/6200	221/4800	1410kg	180	6.3		155	18	23.3	+ Noise, pace and individuality - Front-drive chassis can't keep up	***
Alpina D3		€30,950	4/1995	211/4000	332/2000	1495kg	143	6.9	*	152	-	52.3	+ Excellent chassis, turbodiesel oomph - Rather narrow powerband	****
Alpina B5 Biturbo	149 D	£69,995	8/4395	500/5500	516/3000	2040kg	265	4.7	- 1	191	20		+ Big performance and top-line luxury - Driver not really involved	***
Alpina B5 S	118 D	'07-'10	8/4398	523/5500	535/4750	1720kg	309	4.5		197	20	23.0		
Alpina B7	134 D	E97,950	8/4395	507/5500	516/3000	2040kg	252	4.5	- 2	174	20	-	* Massive performance and top-line luxury - Feels its weight when hustle	
Alpina B7	085 R	'05-'08	8/4398	500/5500	516/4250	1950kg	261	4.8		186	20	40	Alpina makes a mad, bad 7-series - Over-cautious traction control	***
Aston Martin Rapide	141 F	£144,950	12/5935	470/6000	443/5000	1990kg	240	5.2	-	188	20	Sec	+ Better than its DB9 sibling - More a 2+2 than a proper four-seater	****
Audi A4 3.2 FSI quattro S-line	111 D	€34,510	6/3197	261/6000	243/3000	1610kg	165	6.1		155	16	31.7	+ A good match for its German foes - An extra £3K buys an \$4	****
Audi A4 3.0 quattro	032 R	01-04	6/2976	220/6300	221/3200	1505kg	146	6.7	-	151	17	26.9		***
Audi S4 (Mk3)	134 F	€36,530	6/2995	328/5500	325/2900	1650kg	202	5.1		155	18	29.1	+ More fun than you'd believe possible - When's the new RS4 coming?	****
Audi 54 (Mk2)	073 D	'05-'08	8/4163	339/7000	302/3500	1700kg	206	5.4		155	20		+ Effortless V8, agile handling - Lacks ultimate finesse of class leaders	***
Audi RS4	088 F	.0608	8/4163	414/7800	317/5500	1650kg	255	4.5	10.9	155	20		+ A leap on for fast Audis, superb engine - Busy under braking	****
Audi RS4 Avant	105 F	'07-'08	8/4163	414/7800	317/5500	1710kg	246	4.6	-	155	20	20.6	+ More desirable than ever - Everyone thinking you're married with kids	****
Audi RS4	024 R	'00-'02	6/2671	375/6100	325/2500	1620kg	236	4.8	12.1	170	20	17.0	+ Effortless pace - Lacks finesse. Bends wheel rims	***
Audi RS2		194-195	5/2226	315/6500	302/3000	1595kg	201	4.8	13.1	162	20	18.0	+ Storming performance (thanks to Porsche) - Try finding one	***
Audi S6	091 D	£59,055	10/5204	429/6800	398/3000	1910kg	228	5.2	*	155	20	22.4		***
Audi RS6	124 D	€76,715	10/4991	572/6250	479/1500	1985kg	293	4.5	-	155	20	20.3	+ Looks and drives better than estate version - M5 is ten grand cheaper	
Audi RS6 Avant	116 F	€78,285	10/4991	572/6250	479/1500	2025kg	287	4.3	9.7	155	20	20.2	+ The world's most powerful estate - Power isn't everything	****
Audi RS6	052 R	'02-'04	8/4172	444/5700	413/1950	1840kg	245	4.8	11.6	155	20	19.3	+ Huge real-world performance - Inert steering	***
Audi RS6 Avant	052 R	'02-'04	8/4172	444/5700	413/1950	1865kg	242	4.8	11.6	155	20	19.3	+ The ultimate estate car? - Numb steering	****
Audi 58	088 D	'06-'10	10/5204	444/7000	398/3500	1940kg	232	5.1		155	20	21.4	+ V10 engine, ceramic brakes, fantastic gearbox - Light steering	****
Audi Q7 V12 TDI	124 D	€98,255	12/5934	493/3750	737/1750	2635kg	190	5.1	12.2	155	20	25.0	+ Undeniably quick, relatively economical - Will anybody want one?	***
Bentley Flying Spur	080 D	£123,400	12/5998	552/6100	479/1600	2475kg	226	4.9	-	195	20	17.0	+ Performance, wonderful interior - Have you seen petrol prices?	***
Bentley Flying Spur Speed	141 F	£140,000	12/5998	600/6000	553/1750	2440kg	250	4.6		200	20	17.0	+ 600bhp; surprisingly fun handling - Could look a bit more like it goes	****
Bentley Mulsanne	145 D	£220,000	8/6752	505/4200	752/1750	2585kg	198	5.1	-	184	20	45	+ Drives like a modern Bentley should - Shame it doesn't look like one too	****
Bentley Arnage R	048 F	'02-'08	8/6750	400/4000	616/3250	2585kg	157	6.9	17.1	155	20	13.7	+ Twin turbo thrust, limo-like ride - It's a bit heavy	***
Bentley Arnage T	096 D	'06-'08	8/6751	500/4200	737/3200	2585kg	196	5.2	-	179	20	14.5	+ Still able to impress - Something of an anachronism	***
BMW 320d EfficientDynamics	143 D	€27,245	4/1995	161/3250	280/1900	1420kg	115	8.0	-	142		68.9	+ A diesel close to its best - The Alpina D3 costs little extra	***
BMW 330d SE	123 D	£31,775	6/2993	241/4000	384/1750	1610kg	150	6.1	*	155	17	49.6	+ More power, refinement and mpg - Electric power steering lets side dow	n ****
BMW 325i M Sport		£30,540	6/2996	215/6700	199/2400	1505kg	145	.6.6		155	16	39.2	+ Stunning drivetrain, controlled chassis - Looks a bit steady	***
BMW 335i M Sport	134 F	£36,045	6/2979	302/5800	295/1300	1610kg	190	5.6	2	155	18	31.0	+ As above, with added wallop - Still looks a bit steady	***
BMW M3 (E90)	123 R	£51,805	8/3999	414/8300	295/3900	1680kg	250	4.9	10.7	165	20	22.8	+ Every bit as good as the M3 coupe - No carbon roof	****
BMW 325i SE		'99-'05	6/2494	192/6000	181/3500	1485kg	131	7.1	-	149	15	31.4	+ Loses little to 330i - Steering not the best	****
BMW 330i Sport	028 R	'99-'05	6/2979	231/5900	221/3500	1510kg	153	5.9	17.0	155	17	30.0	+ Clean, classy and confident - Too smooth for its own good?	****
BMW 535i SE	141 D	€37,300	6/2979	302/5800	295/1200	1760kg	174	6.1		155		33.2	+ New 5-series impresses But only with all the chassis options ticked	***
BMW M5 Touring (E60)	105 F	'07-'10	10/4999	500/7750	383/6100	1880kg	270	4.8		155	20	19.3		****
BMW M5 (E60)	129 F	'04-'10	10/4999	500/7750	384/6100	1855kg	276	4.7	10.4	155	20	19.6	+ Close to being the ultimate supersaloon - SMG gearbox feels old-tech	****
BMW M5 (E39)	110 F	'99-'03	8/4941	400/6600	369/3800	1720kg	236	4.9	11.5	155	20	-	+ Magnificent V8-engined supersaloon - We'd be nit-picking	****
BMW M5 (E34)	110 F	192-196	6/3795	340/6900	295/4750	1653kg	209	5.9	13.6	155	20		+ The Godfather of supersaloons - The family can come too	****
BMW M5 (E28)	110 F	'86-'88	6/3453	286/6500	250/4500	1431kg	203	6.2	~	151	20	-	+ The original storming saloon - Two handfuls in the wet	****
BMW X5 xDrive 40d SE		€46,310	6/2993	302/4400	442/1500	2185kg	140	6.6		147		37.7	+ Handling, comfort, refinement - Looks like a big X3	****
BMW X6 xDrive 50i	118 D	€56,045	8/4395	408/5500	442/1750	2190kg	186	5.4		155	20	22.6		****
BMW X6M	134 D	€80,220	8/4395	547/6000	502/1500	2380kg	234	4.7	- 2	171	20	100000	+ Fast, refined and comfortable - But it definitely lacks the M factor	***
BMW 750i		£68,495	8/4395	401/5500	442/1750	2020kg	202	5.2	41	155	20	24.8	+ The ultimate drivers' time - The back's a nicer place to be than the front	****
Brabus Bullit	119 F	c£300,000	12/6233	720/5100	811/2100	1850kg	395	3.8	*	217	20	100	+ Seven hundred and twenty bhp - Three hundred thousand pounds	****
Cadillac CTS-V	148 F	€57,718	8/6162	556/6100	551/3800	1928kg	293	3.9	-	191	20	18.5	+ It'll stand out among M-cars and AMGs - But the novelty might wear off	***
Chrysler 300C SRT8	096 D	£43,995	8/6059	425/6000	420/4800	1965kg	220	4.9		168		20.2	+ Looks, supple ride, composed chassis - Too much understeer, slow 'box	
Chrysler 300C 5.7 Hemi	088 D	'05-'08	8/5654	340/5000	387/4000	1910kg	180	6.2	15.1	155	-	23.3	+ Gangster chic - Ginsters suspension	AAAA
Ford Mondeo 2.0T Titanium X		€24,295	4/1999	200/6000	221/1750	1581kg	128	7.9		144		36.6	+ Terrific chassis, sweet engine - People will still want an Audi	****
Ford Mondeo ST220	043 D	'02-'07	6/2967	223/6150	204/4900	1550kg	146	6.8		151	17	27.7	+ Muscular engine, fine chassis - Hotted-up repmobile image	****
Ford Sierra RS Cosworth 4x4		'90-'93	4/1993	220/6250	214/3500	1305kg	159	6.6	-	144	20	24.4		****
Ford Sierra RS Cosworth		'86-'90	4/1993	204/6000	204/4500	1220kg	169	6.2	-	143	-	ASSESS.	+ Roadgoing Group A racecar - Don't shout about the power output!	****
Holden HSV GTS S'charger	041 D	'02	8/5665	502/6050	457/5100	1799ka	283	4.5		180	20	100	+ Massive linear power, great chassis - Slow 'shift, cheap interior	****
Honda Civic Type-R *	108 D	'07-'10	4/1998	222/8000	158/6100	1252kg	180	5.9		150	-	-	Screaming engine, razor-sharp chassis - Specialist import only	****
Honda Accord Type-R	012 R	199-103	4/2157	209/7200	158/6700	1306kg	163	6.1	17.4	142	18	29.4	+ One of the finest front-drivers of all time - Lack of image	****
Infiniti G375	UIZR	£34,470	6/3696	316/7000	265/5200	1709kg	188	5.8	17.4	155	19	26.7	+ Credible alternative to its German rivals - Lacks their looks and kudos	***
Infiniti M37S	150 D	£39,650	6/3696	316/7000	265/5200	1765kg	182	6.2		155	14	27.7	+ Stands out from the crowd - Not as involving as some rivals	****
			6/2993	271/4000	443/2000			5.9		155	18	42.0		****
Jaguar XF 3.0D S	145 D	£38,600	8/5000		380/3500	1820kg	161	5.5	*	155	19	25.4	+ Best XF after the R - But we'd still have the R	***
Jaguar XF 5.0	120 5	£51,600		380/6500		1780kg	231 270	- 1000000	10.0	155		-	* Ten grand cheaper than the XFR which is still the one we'd have	****
Jaguar XFR	138 F	662,600 '08-'09	8/5000 8/4196	503/6000 410/6250	461/2500 413/3500	1891kg		4.8 5.1	10.2	155	20	22.5	+ Brilliant blend of pace and refinement - Looks too discreet?	****
Jaguar XF SV8	116 F					1842kg	226		-			22.4	+ Convincing driving experience - Overshadowed by XFR	****
Jaguar S-type R	048 R	'02-'07	8/4196	400/6100	408/3500	1800kg	226	5.3	-	155	20	22.5	+ Fine dynamics belie olde worlde looks - Auto-only, and no lsd	ANANA



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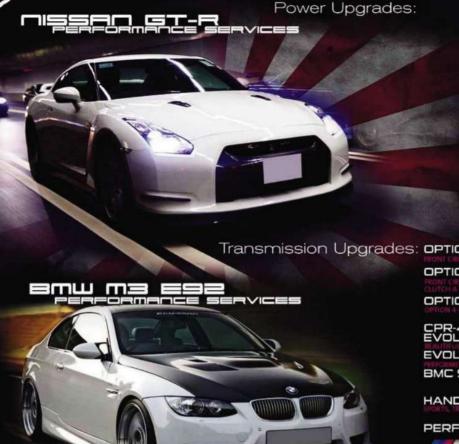
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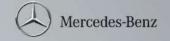
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	Issue no.	Price	Engine cyl/cc	Bhpírpm	Lb furpm	Weight	Bhp/ton	0-60mph	0-100mph	Max mph	Ins group	EC mpg	<b>evo</b> rating
Jaguar XJ 3.0 V6 dieset	148 D	£53,900	6/2993	271/4000	442/2000	1796kg	153	6.0	-	155	-	40.1	+ A great Jaguar - But not as great as the Supersport
Jaguar XJ Supersport Jaguar XJR	144 D 054 R	£88,000	8/5000 8/4196	503/6000	461/2500	1892kg	270 244	4.7	*	155 155	20	23.4	+ Superb ride and handling, monster performance - Opinion-dividing looks ****  + Genuine 7-series rival - 2007 facelift didn't help middle-aged image ****
Jaguar XJR 4.0	018 R	00-03	8/3996	400/6100 370/6150	408/3500 387/3000	1665kg 1775kg	211	5.0 5.6	13.5	155	19	21.9	+ Genuine 7-series rival - 2007 facelift didn't help middle-aged image + Matchless grace, extraordinary pace - Not much space ****
Lamborghini LM002	016 F	'86-'89	12/5167	450/6800	369/5200	2700kg	169	3.0	13.3	130	20	21.7	+ Craziest 4x4 ever, Countach V12 - Craziest 4x4 ever ****
Lexus IS-F	117 F	€56,540	8/4969	417/6600	372/5200	1730kg	245	4.8	-	173	20	24.8	+ Shockingly good Lexus - The M3's now available as a four-door too
Lotus Carlton	035 F	'91-'93	6/3615	377/5200	419/4200	1658kg	231	4.8	10.6	176	20	17.0	+ The Millennium Falcon of saloon cars - Every drive a work-out
Maserati Quattroporte S	137 R	£85,550	8/4691	425/7000	361/4750	1990kg	216	5.1	12.1	174	20	18.0	+ Finally, a QP with more bhp - New grille a bit Hannibal Lecter ****
Maserati Q'porte Sport GTS	141 F	£92,355	8/4691	433/7000	361/4750	1990kg	221	5.1		177	20	17.9	+ The most stylish supersaloon - Slightly wooden brakes, unforgiving ride ****
Maserati Quattroporte	085 F	'04-'08	8/4244	394/7000	333/4500	1930kg	207	5.1		171	20	17.9	+ Redefines big-car dynamics - Don't use auto mode ★★★★★
Maserati Q'porte Sport GTS	113 D	'07-'08	8/4244	396/7000	339/4250	1930kg	208	5.5	*	167	20	200.00	+ Best Quattroporte chassis so far - More power wouldn't go amiss ★★★★
Mazda 6 MPS Mercedes-Benz 190E 2.5 16	093 F	'06-'07 '89-'92	4/2261	256/5500 197/6750	280/3000 177/5500	1665kg 1360kg	156 147	6.5 7.2	-	149	16	27.7	+ Agility, effective 4wd system, price - Inconsistent steering  * M-B's M3 alternative - Not as nimble as the Beemer
Mercedes-Benz C63 AMG	123 R	£52,925	8/6208	451/6800	442/5000	1730kg	265	4.7	10.3	160	19	21.1	+ Monstrous pace - Auto gearbox denies it greatness
Mercedes-Benz DR520	148 D	€62,430	8/6208	513/6800	479/5000	1730kg	301	4.1	10.0	187	-	1/2	+ C63 AMG goes feral - For an extra ten grand, though
Mercedes-Benz C55 AMG	088 R	'04-'08	8/5439	367/5250	376/4000	1635kg	228	5.2		155	20	23.7	+ Furiously fast, commendably discreet - Overshadowed by M3 and R54 ***
Mercedes-Benz E63 AMG	134 D	£71,900	8/6208	518/6800	464/5200	1840kg	286	4.5		155	20		+ Sounds good, drives very well - Not as lazily grunty as its rivals
Mercedes-Benz E63 AMG	096 D	'06-'09	8/6208	507/6800	464/5200	1840kg	280	4.5	-	155	20	19.8	+ Brilliant engine, indulgent chassis - Vague steering, speed limits
Mercedes-Benz E55 AMG	052 R	'03-'06	8/5439	476/6100	516/2650	1760kg	271	4.8	10.2	155	20	21.9	+ M5-humbling grunt, cosseling ride - Speed limits
Mercedes-Benz E55 AMG	410.0	'98-'02	8/5439	354/5500	390/3000	1642kg	219	5.5		155	20	23.0	+ Dragster disguised as a limo - Tyre bills ****
Mercedes-Benz S63 AMG	148 D	£109,125	8/5461	536/5500	590/2000	2115kg	257	4.5	-	155	20	10.5	+ Massive torque, massively reduced emissions - Massive car + God's own supersaloon - Unholy price and thirst
Mercedes-Benz S65 AMG Mercedes-Benz S65 AMG	098 F 073 F	€153,342 '04-'05	12/5980 12/5980	603/6500	737/2000 738/5950	2260kg 2220kg	272 275	4.4		155 155	20	19.5	+ God's own supersaloon - Unholy price and thirst  + Eye-widening wallop - Wallet-shrivelling thirst
Mercedes-Benz CLS63 AMG	099 F	£77,960	8/6208	507/6100	464/2650	1905kg	270	4.5	-	155	20	19.5	Beauty, comfort, awesome performance - M5 has the edge on B-roads
Mercedes-Benz CLS55 AMG	092 F	'06	8/5439	476/6100	516/2650	1920kg	252	4.7		155	20	20.8	As above - You bang your head getting in
Mercedes-Benz ML63 AMG	104 F	£78,430	8/6208	503/6800	464/5200	2310kg	221	4.6	11.0	155	20	17.1	+ Goes like an SUV has no right to - Gordon Murray will hate you
Mercedes-Benz G55 AMG	092 F	£114,975	8/5439	476/6100	516/2650	2550kg	190	5.2	-	130	20		+ Thuggishness, anti-style statement - It's a bit silly
MG ZS 180	071 D	101-105	6/2497	175/6500	177/4000	1235kg	144	7.3	-	139	16	29.7	+ Sweet V6 engine, pace, tidy handling - Image
MG ZT 260 V8	068 F	103-105	8/4601	256/5000	302/4000	1680kg	155	6.5	16.3	155	18	21.5	+ Lovely woofly V8, well-sorted rear-drive chassis - Thirst ***
Mitsubishi Evo X FQ-300		£30,299	4/1998	290/6500	300/3500	1560kg	189	4.7	- 7	155	19	27.4	+ The Evo grows up - Perhaps just a little too sensible?
Mitsubishi Evo X FQ-300 SST	118 F	€33,799	4/1998	290/6500	300/3500	1590kg	185	5.2	13.9	155	20	26.2	+ As above with twin-clutch transmission - As above, with paddles on
Mitsubishi Evo X FQ-330 SST	134 F 122 D	£36,799 £38,229	4/1998 4/1998	324/6500 354/6500	322/3500 363/3500	1590kg	207	4.4	*	155 155	20	19.9	Great engine and gearbox combo - It still lives in the shadow of the Evo IX     + Ridiculously rapid new Evo - A five speed gearbox?!  ***** *****************************
Mitsubishi Evo X FQ-360 Mitsubishi Evo X FQ-400	138 F	£50,799	4/1998	403/6500	387/3500	1560kg 1560kg	262	3.8	-	155	20	17.7	+ Ridiculously rapid new Evo - A five speed gearbox?!  + The best Evo X so faris about X grand too much
Mitsubishi Evo IX FQ-340	088 F	'05-'07	4/1997	345/6800	321/4600	1400kg	250	4.3	10.9	157	20		+ Gives Porsche drivers nightmares - Points. Lots of
Mitsubishi Evo IX MR FQ-360	103 F	'05-'07	4/1997	366/6887	363/3200	1400kg	266	3.9	-	157	20	2	+ Well-executed engine upgrades - Prison food *****
Mitsubishi Evo VIII	055 F	'03-'04	4/1997	276/6500	289/3500	1410kg	199	5.1	- 2	157	20	-	The Evo grows up - Brakes need beefing up  ★★★★
Mitsubishi Evo VIII MR FQ-300	057 R	'03-'05	4/1997	305/6800	289/3500	1400kg	221	4.8	-	157	20	20.5	+ Extra pace, extra attitude - Price premium ★★★★★
Mitsubishi Evo VII	031 F	'02-'03	4/1997	276/6500	282/3500	1360kg	206	5.0	13.0	140	20	20.4	+ Terrific all-rounder - You tell us ****
Mitsubishi Evo VII RS Sprint	041 D	'02-'03	4/1997	320/6500	327/6200	1260kg	258	4.4		150	20		* Ruthlessly focused road weapon - For the truly committed
Mitsubishi Evo VI RS Sprint Mitsubishi Evo VI Makinen Ed.	011 F 128 F	'99 '00-'01	4/1997	330/6500 276/6500	323/3000 275/2750	1255kg 1365kg	267 205	4.5	11.8	145 150	20	3	+ Lighter, keener, quicker than regular Evo - A little uncompromising + Still one of our favourite Evos. Exclusive, too - Import only
Porsche Panamera S	133 D	£73.827	8/4806	394/6500	369/3500	1770kg	226	5.6	-	177	20	26.2	+ Still one of our favourite Evos. Exclusive, too - Import only  + ★★★★  + Great cabin and typically fine Porsche chassis - Only a mother could love it
Porsche Panamera Turbo	137 R	£97.358	8/4806	493/6000	516/2250	1970kg	254	3.6	8.9	188	20	23.2	+ Fast, refined and dynamically sound - It still leaves us cold
Porsche Cayenne Turbo	144 D	£81,589	8/4806	493/6000	516/2250	2170kg	231	4.7	*	173	20	24.6	+ Greener, faster, better - Odd rear styling, numb steering
Porsche Cayenne Turbo	104 F	'06-'10	8/4806	494/6000	516/2250	2355kg	213	4.7	11.4	171	20	19.0	+ Appears to dely physics - Still cracks mirrors at 50 paces ****
Range Rover Sport V8 S'chgd	135 D	£63,840	8/5000	503/6000	461/2000	2590kg	200	5.9	2	140		18.9	+ Thumpingly fast and hugely comfortable - It's no Cayenne in the corners ****
Range Rover V8 Supercharged	134 D	€82,270	8/5000	503/6000	461/2000	2710kg	189	5.9	20	140	20	19.0	+ Fast, comfortable, luxurious - Big, heavy, thirsty
Rolls-Royce Ghost	140 D	£195,840	12/6592	563/5250	575/1500	2435kg	235	4.7	-	155	20	20.8	+ More sporting, more affordable Rolls-Royce - But it still costs £192,500
Rolls-Royce Phantom Saab 9-5 2.8T XWD Aero	054 F	£275,990	12/6749	453/5350	531/3500	2550kg	181	5.7	*	149 155	20	18.0	<ul> <li>+ Rolls reinvented for the 21st Century - The roads are barely big enough</li> <li>+ Brilliant start to new Saab era - Steering and transmission could be better</li> </ul>
Subaru Impreza WRX GB270	146 D 109 D	£37,795	6/2792	296/5500 266/5700	295/2000 310/3000	2065kg 1410kg	146	5.2	-	143	19		+ Fitting final fling for 'classic' Impreza - End of an era
Subaru Impreza WRX	087 F	'05-'07	4/2457	227/5600	236/3600	1410kg	163	5.4		143	19	27.4	+ 2.5 litres gives even greater thump - Slightly light steering
Subaru Impreza STI	090 R	'05-'07	4/2457	276/6000	289/4000	1495kg	188	5.3	*:	158	20	25.9	+ Stunning to drive - Not so stunning to look at
Subaru Impreza STI Spec C *	084 D	'05-'07	4/1994	320/6730	311/3500	1350kg	240	4.3	-	157	20	-	+ Lighter, faster, fiercer - The need for self-restraint
Subaru Impreza RB320	105 F	'07	4/2457	316/6000	332/3750	1495kg	215	4.8		155	20		+ Fitting tribute to a rallying legend - Too hardcore for some?
Subaru Imp'a WRX STI PPP	073 F	'03-'05	4/1994	300/6000	299/4000	1470kg	207	5.2	12.9	148	20	-	+ A Subaru with real edge - Bit too edgy in the wet ★★★★
Subaru STi Type RA Spec C *	067 F	'03-'05	4/1994	335/7000	280/3750	1380kg	247	4.3	11.1	160	2	20	+ Best Impreza since the P1 - Has lost its throbby flat-four voice ★★★★
Subaru Impreza WR1	067 R	'04-'05	4/1994	316/5800	310/4000	1470kg	218	5.3	13.1	155	-	-	+ Most powerful official UK Impreza until RB320 - Spec C is better
Subaru Impreza Turbo	011 F	'98-'00	4/1994	215/5600	214/4000	1235kg	177	5.4	14.6	144	17	27.2	+ Destined for classic status - Thirsty
Subaru Impreza P1	067 F 011 F	'00-'01 '99	4/1994	276/6500	260/4000 258/3500	1283kg	219 195	4.9	13.3	150 143	20 17	25.0	
Subaru Impreza RB5 (PPP) Subaru Impreza 22B	011 F	'98-'99	4/1994	237/6000	265/3200	1235kg 1270kg	220	5.0	14.1	150	20	100	+ Perfect blend of poise and power - Limited numbers  + On paper, the ultimate - On the road, too uncompromising
Subaru Legacy 3.0R spec B	073 D	'05-'08	6/3000	242/6600	219/4200	1515kg	162	6.5	-	151	-	1	Swiftly discreet - You feel a bit divorced from the action  ***********************************
Subaru Forester STi *	087 F	'05-'08	4/2457	320/5800	330/3500	-		4.8	-	150+		100	Undercover fun, gutsy engine - Lacks ultimate edge of an Impreza
Vauxhall Insignia VXR	134 D	€32,290	6/2792	321/5250	321/5250	1810kg	180	5.6	+	155	+	24.7	+ Highly able and very likeable - It's a £31K Vauxhall ****
Vauxhall Vectra VXR	102 D	'06-'09	6/2792	276/5500	262/1800	1580kg	177	6.1	-	161	18	27.4	+ Great engine, effortless pace, good value - Numb steering, lumpy ride ★★★★
Vauxhall VXR8	122 D	€35,275	8/6162	425/6000	405/4400	1831kg	236	4.9	-	155	20	18.6	+ Oversteer, price, oversteer, practicality - Suspension can get befuddled ****
Vauxhall VXR8 Supercharged	113 R	€42,095	8/5967	533/6000	568/4400	1831kg	296	4.5	25	180	20	100	+ The Lotus Carlton reinvented - Doesn't have polish of best Europeans
Vauxhall VXR8 Bathurst S	148 F 046 D	£44,995	8/6162	564/6000	527/4000	1866kg	307	4.6	10.7	155	20	1	+ A tauter VXR8. Bonkers pace, brilliant noise - Gearchange still rubbish
VW Phaeton W12		€78,200	12/5998	444/6050	413/2750	2240kg	201	6.1	-	155	20	19.5	+ Techno masterpiece that works - Seventy-eight grand for a VW!

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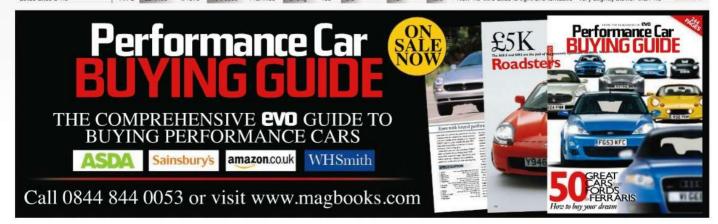


OUR CHOICE Porsche Boxster. OK, it's become a bit of a cliché and it's got all the visual tension of a bar of soap, but the Boxster's still a great drive and the latest version boasts fresher; more powerful engines. New Spyder iteration (left) is even more driver-focused.

Best of the Rest: The back-to-basics Lotus Elise is a joy, with sublime handling and just enough power, while the revamped Mazda MX-5 handles like it should again. For the ultimate road and track thrills, though, buy a Caterham R300 (right) or an Ariel Atom.



	1000	Spyde	r iteratio	n (left) is	even more	driver-fe	ocused		buy	a Cat	erhar	n R3	800 (right) or an Ariel Atom.	
AC MkVI GT	135 D	€93,500	8/6162	437/4800	431/4800	1000kg	444	3.9	*	162		1/10		****
Alfa Romeo 8C Spider	139 F	£174,000	8/4691	450/7000	354/4750	1675kg	273	4.5	+:	181	20	100		***
Ariel Atom 3 245	113 D	£29,954	4/1998	245/8200	155/5200	500kg	498	3.2	-	150	20	33.0		***
Ariel Atom 3 Supercharged	138 F	£42,000	4/1998	300/8200	162/7200	550kg	554	3.3	2	155	20	100		****
* Ariel Atom V8 500	150 R	£146,699	8/3000	475/10,500	284/7750	550kg	877	3.0	5.8	170		180		***
Ariel Atom 2 300 Supercharged		'03-'09	4/1998	300/8200	162/7200	550kg	554	3.3	-	155	20	28.0		***
Ariel Atom 2 275	068 D	03-08	4/1998	275/8400	192/7650	500kg	559	3.4		150	*			***
Ariel Atom 1	015 F	'99-'03	4/1796	125/5500	122/3000	496kg	256	5,6	18.0	115	-	-		****
Aston V8 Vantage Roadster	130 F	£96,995	8/4735	420/7000	346/5750	1710kg	250	4.7		180	20	20.4		***
Aston V8 Vantage R'dster N400		'07-'08	8/4280	400/7300	309/5000	1650kg	246	4.8	-	177	20			***
* Aston Martin DB9 Volante	150 D	E131,445	12/5935	470/6000	443/5000	1815kg	263	4.6	*	190		17.2		****
Aston Martin DBS Volante	133 D	£179,500	12/5935	510/6500	420/5750	1810kg	286	4.3	*	191	20	17.3		****
Audi TT Roadster 1.8 TFSI		€24,690	4/1798	158/4500	184/1500	1285kg	125	7.4	*	139	16	43.5		
Audi TTS Roadster	122 D	€36,825	4/1984	268/6000	258/2500	1455kg	187	5.6	*	155	19	34.4		***
Audi TT RS Roadster	133 D	£46,715	5/2480	335/5400	332/1600	1510kg	225	4.7		155	20	29.7		***
Audi TT Roadster (Mk1 225bhp)	016 R	'00-'06	4/1781	225/5900	206/2200	1395kg	164	6.9	20.0	150	19	30.4		***
Audi S5 Cabriolet	130 D	£44,195	6/2995	328/5500	325/2900	1875kg	178	5.6		155		29.1	+ Gets the S4's trick new supercharged engine - Just a little bit dull	****
Audi RS4 Cabriolet	094 D	'06-'08	8/4163	414/7800	317/5500	1845kg	228	4.9	- 2	155	20	1	+ That engine - Wibble wobble, wibble wobble, jelly on a plate	***
Audi R8 5.2 V10 quattro Spyder	143 F	£112,500	10/5204	518/8000	391/6500	1720kg	306	4.1	2	194	20	19.0	+ Looks and sounds sensational - It's the most expensive Audi ever	***
Bentley Conti GTC Speed	131 D	£156,800	12/5998	600/6000	590/1750	2485kg	245	4.5	23	200	20	17.0	+ A great convertible just got better - Optional carbon brakes a necessity	****
Bentley Conti Supersports	147 D	£178,000	12/5998	621/6000	590/2000	2395kg	263	3.9		202	20		+ Fast, capable and refined - Coupe does the Supersports thing better	****
Bentley Azure T	140 D	£250,400	8/6761	500/4200	738/1800	2695kg	188	5.2	+	179	20	14.5	+ Two-and-a-half-ton sunbed - Cheaper Conti GTC a much better drive	***
BMW Z4 sDrive 23i (Mk2)	139 D	£29,695	6/2497	201/6400	184/2750	1480kg	138	6.6	*	151	17	33.2	+ The Z4 has grown upand got fat	****
BMW Z4 sDrive 35i (Mk2)	130 D	€38,480	6/2979	302/5800	295/1300	1600kg	213	5.2	-	155	18	30.1		***
BMW Z4 3.0si (Mk1)	094 D	'06-'09	6/2996	265/6600	232/2750	1385kg	194	5.7		155	19	32.9		****
BMW Z4 M Roadster	091 R	'06-'09	6/3246	338/7900	269/4900	1485kg	231	4.8		155	-	23.3		****
BMW M Roadster	002 F	'98-'02	6/3246	325/7400	258/4900	1450kg	228	5.3	*	155	19	25.4		***
BMW 335i SE Convertible	102 D	€40,720	6/2979	302/5800	295/1300	1810kg	169	5.8	-	155	19	29.7		****
BMW M3 Convertible [E93]	119 D	£57,285	8/3999	414/8300	295/3900	1885kg	223	5.3	+	155	20	21.9		****
BMW M3 Convertible	035 D	'01-'06	6/3246	338/7900	269/5000	1655kg	207	5.3		155	20	23.3		***
BMW M6 Convertible	098 D	£92,175	10/4999	500/7750	384/6100	1930kg	264	4.8		155	20	19.2		***
BMW Z8	026 R	.0003	8/4941	400/6600	369/3800	1585kg	256	4.8	11.1	155	20	74.4		***
Brooke 260 Double R	094 F	£32,995	4/2261	260/7500	200/6100	550kg	480	3.9		155+	-	100000		***
Caterham 7 Classic	068 F	£16,300	4/1397	105/6000	95/5000	540kg	198	6.5		110		100		***
Caterham 7 Roadsport 125	105 F	€21,200	4/1595	125/6100	120/5350	539kg	235	5.9	-	112		100		***
Caterham 7 Roadsport SV 175	140 D	£28,300	4/1999	175/7000	139/6000	555kg	321	4.8		138				***
Caterham 7 Superlight R300	150 F	£29,500	4/1999	175/7000	139/6000	515kg	345	4.5	-	140	-			***
Caterham 7 Superlight R400	105 F	£33,600	4/1999	210/7800	152/5750	525kg	406	3.8		140		1/2		***
Caterham 7 Superlight R500	123 R	£40,200	4/1999	263/8500	177/7200	506kg	528	2.9	23	150		100		****
Caterham CSR 260 Superlight	094 F	£42,900	4/2261	256/7500	200/6200	565kg	460	3.8	-	155		100		***
Caterham Levante	131 F	£115,000	8/2398	550/10000	300/8500	520kg	1074	4.8	8.2	150				***
Caterham 7 R300	068 F	'02-'06	4/1796	160/7000	130/5000	500kg	325	4.7	-	130				***
Caterham 7 R400	068 F	'03-'06	4/1796	200/7500	150/5750	490kg	415	3.9		140	2	12		****
Caterham 7 R500	068 F	'99-'06	4/1796	230/8600	155/7200	460kg	510	3.6	8.8	146		13		***
Caterham 7 R500 Evolution	069 F	'04	4/1998	250/8000	190/4000	460kg	552	3.9	8.1	150	-	- 31		***
Chevrolet Corvette C6	083 D	€56,186	8/6162	439/5900	424/4600	1460kg	300	4.3	-	186	20	21.2		****
Elfin Clubman	108 F	£42,000	8/5665	329/5200	343/4400	900kg	371	4.1		160		100	+ Aussie V8-engined bathtub - Needs refining to release potential	***
Fiat Barchetta	061 D	'95-'05	4/1747	130/6300	117/4300	1060kg	125	8.7	-	124	16	33.2		***
Ginetta G20		£15,995	4/1796	140/5800	101/3500	660kg	341	6.3	2	126			+ Classic looks, old-fashioned value - Vintage driving experience	***
Grinnall IV	081 F	€26,995	4/1781	350/4800	310/6100	680kg	522	2.9		150		1/2	+ Monster power-to-weight ratio - Monsters aren't friendly	**
Honda S2000	118 D	99-109	4/1997	237/8300	153/7500	1260kg	191	6.2	-	150	20	28.2		****
IFR Aspid	126 D	c£90,000	4/1997	398/8600	240/7800	740kg	451	2.8	-	155		-		***
Jaguar XK 5.0	120.0	€68,500	8/5000	380/6500	380/3500	1696kg	227	5.3		155	20	25.2		****
Jaquar XKR	130 F	£81,500	8/5000	503/6000	461/2500	1800kg	284	4.8		155	20	23.0		***
	089 F	'06-'09	8/4196	294/6000	303/4100	1635kg	183	100000000000000000000000000000000000000		155	20	25.0		***
Jaguar XK	U07 F	'06-'09	8/4196	414/6250	413/4000	1705kg	247	5.0		155	20	20.0	The state of the s	***
Jaguar XKR	00/ 5	1000 BC10	8/3996		387/3600			- BESTAGE	120	155	20	45		****
Jaguar XKR	004 F	97-106		370/6150		1750kg	215	5.4	12.8		20	15.6 38.0		***
Jetstream SC250 KTM X-Bow	125 D 138 F	£29,450 £49,482	4/1998 4/1984	247/5600	236/2400 229/2000	700kg 790kg	358 305	3.8	-	160		36.0		****
	138 F	£49,482 £46,000	4/1984	143/10500	77/8500	406kg	358	4.4	-	145	-	25.0	The second secon	***
Light Car Company Rocket			4/1002	134/6800	118/4400		155	6.0		127	-	35.0		****
Lotus Elise S 1.6	144 D	€27,450	4/1578	134/0000	110/4400	876kg	100	0.0	- 7	121		45.0	+ New 1.6-litre Elise is light and fantastic - Very slightly slower than 1.8	





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	Issue no.	Price	Engine	Bhp/rpm	Lb fr/rpm	Weight	Bhp/ton	0-60mph	0-100mph	Max mph	Ins group	ЕС трв	<b>evo</b> rating	
Lotus Elise R	068 F	€31.450	4/1796	189/7800	133/6800	860kg	223	5.6	13.9	150	20	34.4	+ Most thrillsome Elise yet - Blaring engine note	****
Lotus Elise SC	131 F	£34,450	4/1794	218/8000	156/5000	870kg	254	4.5	11.4	148	20	33.2	+ All the usual Elise magic - Supercharged engine lacks sparkle	****
Lotus 2-Eleven	126 F	€32,440	4/1796	189/7800	133/6800	720kg	267	4.3	- 1	140	-	68		****
Lotus 2-Eleven Supercharged	123 R	£40,945	4/1796	252/8000	179/7000	670kg	382	3.8	-	150	-	5		****
Lotus 2-Eleven GT4	138 F	£76,590	4/1796	266/8200	179/7200	670kg	403	3.7	-	155		100		****
Lotus Elise S 1.8	104 F	06-10	4/1794	134/6200	127/4200	860kg	158	6.3	18.7	127	20	37.2		****
Lotus Elise S2 1115	049 F	'02-'04	4/1796	156/7000	129/4650	860kg	197	5.1	- 5	131	19	40.9		****
Lotus Elise S2 Sport 135	040 D	703	4/1796	135/6200	129/4850	726kg	189	5.4		129	17	75		****
Lotus Elise S2 Sport 190 Lotus Elise S1	044 F 126 F	"96-"00	4/1796	190/7800 118/5500	128/5000 122/3000	710kg 731kg	272 164	6.1	12.1 18.5	135 126	17	39.4		****
Lotus 340R	126 F	00	4/1796	190/7800	146/5000	658kg	293	4.5	12.5	126	18	300		****
Lotus Elan SE	095 F	189-195	4/1588	165/6600	148/4200	1022kg	164	6.7		137	16	21.0	+ Awesome front-drive chassis - Rather uninvolving	***
Lotus Elan Sprint	126 F	71-73	4/1558	126/6500	113/5500	720kg	178	6.6		122	-	-		****
Maserati GranCabrio	142 D	£95,630	8/4691	434/7000	332/4750	1980kg	223	5.3		176	20	18.5		****
Maserati 4200 Spyder	055 F	'03-'07	8/4244	390/7000	333/4500	1720kg	229	4.9		177	20	15.2	+ Magnificent engine, decent chassis - Brutal turn-in	****
Mazda MX-5 1.8i SE		£17,245	4/1798	124/6500	123/4500	1155kg	109	9.9	2	121	11	40.4	+ Basic MX-5 offers ESP-less fun - But you'll probably want the 2.0's power	****
Mazda MX-5 2.0i Sport Tech	138 F	€20,645	4/1999	158/7000	139/5000	1173kg	144	7.6	- 20	132	13	37.2	+ Handles brilliantly again - Less than macho image	***
Mazda MX-5 1.8i (Mk3 v1)	091 F	'05-'09	4/1798	124/6500	123/4500	1155kg	108	9.3	-	122	11	1	+ Gearchange, interior - Lost a lot of the charm of old MX-5s	***
Mazda MX-5 1.8i (Mk2)	017 R	'98-'05	4/1839	146/7000	124/5000	1065kg	140	8.6		123	12	32.5		****
Mazda MX-5 1.6 (Mk1)	131 F	89-197	4/1597	115/6500	100/5500	971kg	120	9.0		114	*	-		****
Mercedes-Benz SLK350	120 R	£38,260	6/3498	301/6500	266/4900	1485kg	206	5.5	13.5	155	18	29.1	+ Best non-AMG SLK yet - Still no Boxster-beater	****
Mercedes-Benz SLK55 AMG	087 F 110 F	€53,790	8/5439 8/5439	355/5750	376/4000	1575kg	229	4.9	11.2	155 174	-17	23.5	+ Superb engine, responsive chassis - No manual option, ESP spoils fun	****
Mercedes SLK55 AMG Black Mercedes-Benz SL500	1101	107-108	8/5461	394/5750 383/6000	383/3750 391/2800	1495kg	268 204	5.4	11.2	155	20	21.1	+ AMG gets serious - Dull-witted 7G-Tronic auto box, uneven dynamics	***
Mercedes-Benz SL63 AMG	117 D	£79,420 £104,560	8/6208	518/6800	464/5200	1910kg	278	4.6	-	155	20	24.4	Unflappable, gorgeous, beautifully engineered - Just a bit dull     More focused than old SL55 AMG - Lost some of its all-round appeal	***
Mercedes-Benz SL65 AMG	117.0	£157,510	12/5980	604/4800	737/2000	1895kg 2045kg	300	4.2	-	155	20	18.7	+ Humongous torque - Humongously expensive	***
Mercedes-Benz SL55 AMG	070 F	02-07	8/5439	493/6100	516/2650	1955kg	256	4.6	10.2	155	20	10.7		****
Mercedes-Benz SL65 AMG	071 D	'04-'07	12/5980	604/4800	737/2000	2035kg	302	4.1	10.2	155	20			****
Mini Cooper 5 Convertible	0710	£19,460	4/1598	181/5500	177/1600	1305kg	141	7.2	-	140	16	47.1		****
Mini John Cooper Works Conv.	130 F	€24,040	4/1598	208/6000	206/1850	1305kg	162	6.9		146	18	39.8	+ A manlier Mini cabrio. As hardcore as the hatchwhich is still better	***
MG TF LE500	1001	£16,399	4/1796	133/6750	122/5000	1185kg	114	8.4	-	127	14	35.8	+ It's not bad to drive - But it can't be recommended at this price	***
Morgan Roadster V6	073 D	€39,038	6/2967	202/6000	206/4900	950kg	216	4.9	+	134	20	28.8	+ Lusty V6, romantic atmosphere - Bygone dynamics	***
Morgan Aero SuperSports	145 F	£126,900	8/4799	362/6300	370/3600	1180kg	312	4.2	+	170	+:		+ As above, with a targa top - It's proper supercar money	***
Morgan Aero 8	105 F	'02-'08	8/4799	362/6300	361/3400	1100kg	334	4.5	-	170	20	25.2	+ Glorious sound, view over bonnet, dynamics - Awkward-looking rear	****
Nissan 370Z Roadster	143 F	£30,445	6/3696	326/7000	269/5200	1554kg	213	5.5		155	20	25.2	+ The Zed's old-school character remains intact - Its purposeful looks don't	
Nissan 350Z Roadster		'04-'09	6/3498	309/6600	264/4800	1600kg	196	5.8		155	-	24.8	+ Drives just like the coupe - But doesn't look as good	****
Porsche Boxster	400 0	€34,726	6/2893	252/6400	214/4400	1335kg	192	5.9	-	163	18	30.1		****
Porsche Boxster S	128 F	£41,724	6/3436	306/6400	265/5500	1355kg	229	5.3	*	170	19	29.7		****
Porsche Boxster Spyder	140 F	£45,603 '05-'09	6/3436	316/7200 241/6500	273/4750 201/4600	1275kg 1305kg	252 188	5.0	-	166	18	29.4		****
Porsche Boxster (Mk2) Porsche Boxster S (Mk2)	101 D	07-'09	6/3387	291/6250	251/4400	1355kg	218	5.3		169	19	27.2		***
Porsche Boxster (Mk1)	049 F	'99-'04	6/2687	228/6300	192/4700	1275kg	182	6.3		155	18	29.1		****
Porsche Boxster S (Mk1)	070 F	'99-'04	6/3179	260/6200	228/4700	1320kg	200	5.5	-	164	19	26.9		****
Porsche 911 Carrera Cabrio		€71,705	6/3614	341/6500	288/4400	1500kg	227	5.1	-	180	20	28.5		****
Porsche 911 Carrera S Cabrio	130 F	£80,343	6/3800	380/6500	310/4400	1510kg	256	4.9		188	20	27.4		****
Porsche 911 C4 Cabrio	122 D	£76,143	6/3614	341/6500	288/4400	1555kg	223	5.2		176	20	27.4	+ The usual - The usual image problems	****
Porsche 911 Turbo Cabrio	139 D	£105,927	6/3800	493/6000	479/1950	1645kg	305	3.7	-	194	20	24.1	+ Absurdly quick and capable drop-top - We'd still take the coupe	****
Porsche 911 C2 Cabrio (996)		'05	6/3387	316/6800	273/4250	1386kg	232	5.0		174	20	25.4	+ Feels solid like the hard-top - What more do you want?	***
Porsche 911 Turbo Cabrio (996)	060 F	'03-'05	6/3596	414/6000	413/4600	1700kg	250	4.7		185	20	-	+ Faster than you'll ever need it to be - Just the image thing again	****
Radical SR4 Tracksport	070 F	€28,995	4/1500	250/9000	130/8000	462kg	550	3.5		160		100		****
Radical SR8LM	138 F	€88,000	8/2800	460/10,500	260/8000	680kg	687	3.2	+	168	-	15		****
Rolls-Royce Phantom DHC	106 D	E321,740	12/6749	453/5350	531/3500	2620kg	176	5.6	+	149	20	18.0	+ Opulent throwback - Short of pace and perfection	***
Smart Roadster Brabus	067 D	'04-'07	3/698	101/5600	96/2500	895kg	115	9.8		121	- *	54.3	+ Feisty engine, growly soundtrack - Slow paddleshift gearbox	****
Tesla Roadster	131 F	£92,000	AC motor	248/4500	273/0-4500	1283kg	196	5.0	14.3	120	-	5	+ If this is the future, it's going to be fun - Limited range, high price	***
Toniq-R Duratec	102 D	€23,500	4/1999	193/6500	174/4500	550kg	357	4.5	24.2	140	- 12	20.2	+ Very good value, well built, and lots of fun too - No roof, no windscreen	****
Toyota MR2 TVR T350T	078 F 067 D	'00-'06 '04-'07	4/1794 6/3605	138/6400 350/7200	125/4400 290/5500	975kg 1100kg	141 318	7.2	21.2	130	13	38.2	4 MANUAL WALES AND RESERVED AND RESERVED AND AND AND AND AND AND AND AND AND AN	***
TVR Tamora	070 F	01-07	6/3605	350/7200	290/5500	1050kg	338	4.5		160	20		+ Targa top roof, grunty engine - Lacks polish + Well-sorted soft-top TVR - Awkward styling	****
TVR Tuscan Convertible	091 R	'05-'07	6/3996	365/6800	315/6000	1100kg	337	3.8	8.1	195+	20			***
TVR Chimaera 5.0	007 R	'93-'03	8/4988	320/5500	320/3750	1060kg	307	4.6	-	167	20	26.4	+ Gorgeous noise, tarmac-rippling grunt - Details	****
TVR Griffith 4.3	068 F	'92-'93	8/4280	280/5500	305/4000	1060kg	268	4.8	11.2	148	20	2/2/-		****
TVR Griffith 500	009 R	'93-'01	8/4988	320/5500	320/3750	1060kg	307	4.8	11.2	167	20	22.1		****
Ultima GTR	017 R	€45,500	8/6300	534/5800	528/4800	990kg	548	3.9	8.2	204	20	0.5	+ Turns the M1 into the Mulsanne - You'll have to build it yourself	***
Vauxhall VX220	023 R	'00-'04	4/2198	145/5800	150/4000	875kg	168	5.6	-	136	16	34,4		****
Vauxhall VX220 Turbo	066 R	'03-'05	4/1998	197/5500	184/1950	930kg	215	4.7		151	20	2		****
Westfield Megabusa	036 F	£24,450	4/1298	175/9800	102/9000	430kg	413	3.7	-	140	-	82	+ Bike-engined road-rocket - Not big on practicality	***
Westfield 1600 Sport Turbo	140 D	€27,499	4/1598	195/5850	170/2000	650kg	305	4.7	-	142		-	+ Very quick and composed - Expensive, and a little on the heavy side	***
Westfield XI Westfield XTR4	078 D	£16,950	4/1275	65/6000	72/3000	498kg	132	8.5	+	120	-	000		****
	068 D	€33,995	4/1781	220/5500	184/5000	542kg	413	3.6	9.4	160		100	+ Mini-Le Mans racer - You wouldn't want to drive it there	***
Westfield SEiGHT	068 F	'92-'94	8/3900	270/6000		622kg	441	4.4			-		+ Snarling, fire-breathing V8, ferocious pace - Spits fuel at you	***



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## Issue no. Price Engine cy//cc cy//cc Weight Wax mph Ins group EC mpg EC mpg

#### COUPES/GTs



**OUR CHOICE** Porsche 997.2 GT3 RS. The latest RS is the most extreme yet. From its gloriously vocal flat-six to its race-car aero addenda, it's a machine optimised for the circuit. The extraordinary thing is that it translates so well to the road. Simply intoxicating.

Best of the Rest: Lotus's Evora (right) was our 2009 eCoty offering Elise fun and tactility in a baby-supercar package. Nissan's GT-R (our 2008 eCoty) is genuinely supercar-quick, while Audi's R8s are sublime and BMW's M3 is mega, especially with the Competition Pack.



		it trans	slates so	well to the	ne road. Si	mply into	oxicatir	ıg.	M3 i	s meg	ga, es	pecia	Ily with the Competition Pack.	6
Alfa Romeo Brera 'S' 3.2 V6	120 F	€30,065	6/3195	256/6300	237/4500	1532kg	170	6.9		155	18	-	+ Brera optimised for UK roads - Steering still lacking some feel	***
Alfa Romeo GT 3.2 V6 Lusso	071 R	'04-'08	6/3179	240/6200	221/4800	1410kg	173	6.3	15.5	149	19	22.8	+ Gorgeous looks, strong performance - Unsettled ride	***
Alfa Romeo GTV 3.0 V6	010 F	'96-'06	6/2959	220/6300	199/5000	1406kg	159	6.5	-	150	16	24.1	+ Glorious V6 makes it a mini-Ferrari - So-so chassis	***
Alfa Romeo 8C Competizione	120 F	c£111,000	8/4691	450/7000	354/4750	1585kg	288	4.1	*.	181	20		+ Looks, exclusivity, noise, balance - They're all sold	****
Alpina B3 Biturbo	108 F	€50,250	6/2979	355/5500	369/3800	1570kg	230	4.8	2	177	20	29.1	+ Alpina's M3 alternative - Too refined for some	****
Artega GT	122 F	£64,860	6/3597	296/6600	258/2400	1100kg	273	4.9	-	170	20		+ Stunning looks, chassis up with the best - Interior design, price	****
Aston Martin V8 Vantage 4.7	120 F	€88,995	8/4735	420/7000	346/5750	1630kg	262	4.7	-	180	20	20.4	+ More power lifts Vantage to a new level - Ride is unremittingly firm	***
Aston Martin V8 Vantage N420	147 F	€96,995	8/4735	420/7000	346/5750	1603kg	266	4.7		180	20	20.4		****
Aston Martin V8 Vantage 4.3	109 F	'05-'08	8/4281	380/7300	302/5000	1630kg	237	5.2	12.0	175	20		+ Gorgeous, awesome soundtrack - Can't quite match 911 dynamically	***
Aston Martin V8 Vantage N400	114 F	'07-'08	8/4281	400/7300	309/5000	1630kg	249	4.9	-	177	20			****
Aston Martin DB9	146 D	£122,445	12/5935	470/6000	443/5000	1760kg	271	4.6	2	190	20	17.2		****
Aston Martin DB7 Vantage	010 R	'00-'05	12/5935	420/6000	400/5000	1770kg	241	4.9	11.2	185	20	18.6		***
Aston Martin DBS	142 F	£170,500	12/5935	510/6500	420/5750	1695kg	306	4.2	11000	191	20	17.3		****
Audi TT 2.0 TFSI	150 D	€27,925	4/1984	208/4300	258/1600	1260kg	168	6.1	-	152	17	42.8		***
Audi TT 2.0 TDI	123 D	£27,615	4/1968	168/4200	258/1750	1370kg	123	7.5	-	140	16	53.3		***
Audi TTS	119 D	£34,760	4/1984	268/6000	258/2500	1395kg	195	5.4		155	19	35.3		***
Audi TT RS	135 R	€44,775	5/2480	335/5400	332/1600	1450kg	235	4.4	11.1	155	20	31.0		***
Audi TT Sport (Mk1)	081 D	'05-'06	4/1781	237/5700	236/2300	1390kg	173	5.7	****	155	-	30.3		***
Audi S5 quattro	105 D	€42,045	8/4163	349/7000	324/3500	1630kg	221	5.1		155	19	23.3		***
Audi RS5	144 D	£57,480	8/4163	444/8250	317/4000	1725kg	261	4.6	-	155	20	23.3	+ Brilliant engine and accomplished chassisdon't quite get together	***
	106 R	£85,100	8/4163	414/7800	317/4500	1560kg	270	4.1	9.9	187	20	20.3		****
Audi R8 4.2 V8 quattro				Mark State Control		- 1000000000000000000000000000000000000		- BERGO -		100000000000000000000000000000000000000		256(0.5)	1	
Audi R8 5.2 V10 quattro	146 R	£105,810	10/5204	518/8000	391/6500	1620kg	325	3.9	8.4	196	20	19.2		***
Audi Quattro 20V	019 F	'90-'91	5/2226	220/5900	228/1950	1329kg	146	6.2	18.2	143	20	19.1		***
Bentley Continental GT	094 F	£126,500	12/5998	552/6100	479/1600	2350kg	239	4.6	11.2	198	20	17.0		***
Bentley Continental GT Speed	115 F	£144,440	12/5998	600/6000	553/1750	2350kg	259	4.3	*	202	20	17.0		***
Bentley Conti Supersports	137 F	E166,600	12/5998	621/6000	590/2000	2240kg	282	3.7	-	204	20	17.3		***
Bentley Brooklands	116 D	£241,600	8/6761	530/4000	774/3250	2655kg	203	5.0	-	184	20	14.5		****
BMW 135i M Sport	113 F	€30,675	6/2979	302/5800	295/1300	1560kg	197	5.3		155	17	30.7		***
BMW 330Ci	071 R	'00-'06	6/2979	231/5900	221/3500	1522kg	154	6.4	16.6	155	16	31.0	+ Not much slower than a contemporary M3 - Coupés should be bolder	***
BMW 335i M Sport	095 D	£38,215	6/2979	302/5800	295/1300	1600kg	192	5.2	12.2	155	18	31.0		***
BMW M3 (E92)	113 R	€53,275	8/3999	414/8300	295/3900	1655kg	254	4.8	*	155	20	22.8	+ New M3 hits all the targets - Price hike takes it close to 911 territory	***
BMW M3 GTS (E92)	150 F	£115,215	8/4361	444/8300	324/3750	1530kg	295	4.3	-	155	-	-	+ Highly exclusive, feels special - Highly priced, too. And it's no GT3 RS	****
BMW M3 (E46)	066 F	'00-'07	6/3246	338/7900	269/5000	1570kg	219	5.1	12.3	155	20	23.7	+ One of the best BMWs ever - Slightly artificial steering feel	****
BMW M3 CS (E46)	088 F	'05-'07	6/3246	338/7900	269/5000	1570kg	219	5.1	-	155	20	23.7	+ CSL dynamics without CSL price - Looks like the standard car	***
BMW M3 CSL (E46)	060 R	'03-'04	6/3246	355/7900	273/4900	1385kg	255	5.3	12.0	155	20		+ Stripped-down road-race M3 - Standard brakes barely adequate	***
BMW M3 (E36)		'93-'98	6/3201	321/7400	258/3250	1515kg	215	5.4	12.8	157	20	25.7	+ Performance, image - Never quite as good as the original	***
BMW M3 (E30)	019 F	'96-'90	4/2302	220/6750	180/4750	1257kg	178	6.7	17.8	144	18	20.3	+ Best M-car ever! Race-car dynamics for the road - LHD only	****
BMW Z4 3.0si Coupe	107 R	'06-'09	6/2996	261/6600	232/2750	1395kg	190	5.6	11111111	155	*	31.7	+ The looks, the sounds, the way it goes - Fidgety chassis	****
BMW Z4 M Coupe	097 F	'06-'09	6/3246	338/7900	269/4900	1424kg	241	5.0	-	155	-	23.3		****
BMW M Coupe	005 R	'98-'03	6/3246	325/7400	258/3250	1450kg	228	5,1	-	155	20	25.0		***
BMW 650i Sport	088 D	£66,435	8/4799	362/6600	362/3400	1725kg	212	5.1		155	20	24.1	+ Fantastic engine, ultimate BMW tech-fest - Not ultimate driving machine	***
BMW M6	106 R	€87,335	10/4999	500/7750	384/6100	1785kg	285	4.8	10.0	155	20	19.8		****
Bristol Blenheim 3 'S'	038 D	£158,331	8/5900	n/a	410/3500	1787kg	-	5.4	-	155	20	21.7		**
Chevrolet Camaro SS	148 F	c£30,000	8/6162	420/5900	420/4600	1751kg	247	4.7		155			+ Looks like a Transformer made real - We'd prefer it in robot mode	**
Chevrolet Corvette C6	116 D	£49.033	8/6162	430/5900	424/4600	1461kg	300	4.3		186	20	21.2		****
Chevrolet Corvette Z06	099 F	£66,403	8/7011	505/6300	469/4800	1418kg	363	3.9	8.5	198	20	19.2		****
Dodge Challenger *	122 D	c£40,000	8/6059	425/6200	420/4800	1877kg	230	5.2	-	160+	20	17.2	+ Effortlessly coolif you live in Hazzard County	***
			10/8277		525/4200			3.9		190				**
Dodge SRT-10 Coupe	087 D	80'-90'		500/5600		1565kg	324	100000	-	0.000000	20	18	+ Awesome power, muscle-car looks - Cheap cabin, vague gearchange	***
Farbio GTS350	132 F	C76,375	6/2967	350/6500	308/5400	1066kg	337	4.0	-	170+	-		+ Genuine Porsche 911 rival - Needs final fettling	***
Ford Mustang GT *	148 F	cE35,000	8/4951	412/6500	390/4250	1635kg	256	4.5	2	155	-	100	+ Compelling alternative to a Nissan 370Z - LHD and imports only	
Ford Shelby GT500 *	140 R	c£47,000	8/5411	540/6000	510/4500	1780kg	308	4.6	-	155	+	100 P	+ Massive power never fails to entertain - Heavy, unsophisticated chassis	***
Honda CR-Z GT	144 F	E19,999	4/1497	122/6100	128/1500	1198kg	103	9.9	100	124		56.5		
Honda Integra Type-R (DC2)	095 F	'96-'00	4/1797	187/8000	131/7300	1101kg	173	6.2	17.9	145	18	28.9		***
Honda Integra Type-R (DC5) *	037 F	'01-'06	4/1998	217/8000	152/7000	1250kg	176	7.1	16.7	140		1	+ Sharp looks, massive grip - Lost a little of the DC2's magic	***
Honda N5X	043 F	'90-'05	6/3179	270/7300	220/5300	1410kg	196	5.5	-	168	20	22.8	+ 'The useable supercar' - 270bhp sounds a bit weedy today	****
Honda NSX-R *	051 F	'02-'03	6/3179	276/7100	224/5300	1270kg	221	4.4	-	168	20	1	+ evo Car of the Year 2002 - Honda never brought it to the UK	****
Infiniti G37S Coupé	127 R	€35,890	6/3696	316/7000	265/5200	1706kg	188	5.8	13.8	155	19	26.7	+ Softer 370Z delivers sharp-driving swing at the Germans - Bland looks	***
Jaguar XK 5.0	130 D	£62,500	8/5000	380/6500	380/3500	1660kg	232	5.2	-	155	20	25.2	+ Fine car for the likes of us - Jag buyers may not like the harder edge	***
Jaguar XKR	129 D	£75,500	8/5000	503/6000	461/2500	1753kg	292	4.6	-	155	20	23.0		****
Jaquar XKR 75	150 F	€85,500	8/5000	523/6000	488/2500	1762kg	302	4.4		174	20	100	+ Fastest and most involving Jag - They're only making 75 of them	****
Jaguar XKR		'98-'06	8/4196	400/6100	408/3500	1735kg	234	5.2	-	155	20	22.0		****

### **EVO POCKET BUYING GUIDE**

#### VAUXHALL MONARO

#### Why would you?

It's a practical, robustly built four-seater coupe that just happens to have a blooming great V8 engine (5.7 litres minimum). And it's something of a bargain too.

#### What to pay

Early CV8 models with high miles can be had for as little as £8000. A later car, say a VXR from 2005, will be in the region of £12,000-13,000, while a 2007 VXR with low miles will be closer to the £18,000 mark. The supercharged VXR500 is rare and starts at £18K.

#### What to look out for

Engines can be noisy on start-up (usually hydraulic tappets or piston slap) but this should disappear when warm. Throttle bodies can cause problems on 6-litre engines, so ensure the throttle responds properly. Check all the gears select smoothly, especially fifth and sixth, and there's no vibration from the drivetrain or undue noise from the diff. The Monaro's Achilles heel is its suspension – early cars can feel very soggy, and they can eat dampers in as little as 10,000 miles. Look for rust – coming from Australia, the bodies weren't undersealed from new.









#### THE VITAL STATS (2004 CV8)

Years: 2004-2007 Layout: Front engine, rear drive Engine: V8, 5667cc Power: 329bhp@ 5600rpm Torque: 343lb ft@ 4000rpm 0-60mph: 5.3sec Top speed: |60mph+

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		Issue no.	Price	Engine	Bhp/rpm	Lb furpm	Weight	Bhp/ton	0-60mph	0-100mph	Max mph	Ins group	EC mpg	<b>evo</b> rating	
Lotus Exige S	10	)5 F	€35,550	4/1796	218/7800	158/5500	930kg	238	4.5		148	20	33.2	+ Non-limited edition of the Exige 240R - Uninspiring soundtrack	****
Lotus Exige Cup 260		9 D	£45,950	4/1796	256/8000	174/6000	890kg	293	4.0	*	152	20	31.1		****
Lotus Exige (series 2)		8 R	'04-'08	4/1796	189/7800	133/6800	875kg	219	4.9	-	147	20	32.1		****
Lotus Exige 240R	1 00000	37 F	'05	4/1796	243/8000	174/7000	930kg	264	3.9	9.9	155	20	3		****
Lotus Exige (series 1)		7 D	'00-'01	4/1796	192/7800	146/5000	780kg	247	4.6	-	136	18	-		****
Lotus Evora		88 F	£48,550	6/3456	276/6400	258/4700	1382kg	203	5.6	13.6	162	-	32.5		****
Lotus Europa SE		27 F	'08-'10	4/1998	222/5600	221/4000	995kg	227	4.9	-	146	20	28.8		****
Lotus Esprit Sport 350		15 R	'99-'00	8/3506	350/6500 399/7100	295/4250	1299kg	274	4.3	9.9	175	20	22.0	+ Designed for track work but brilliant on the road - Limited edition	****
Maserati GranTurismo Maserati GranTurismo S		4 R	£80,450 £86,765	8/4244	433/7000	339/4750 361/4750	1880kg 1880kg	216 234	5.5	12.7	177	20	19.7	+ Striking, accomplished GT - Doesn't spike the pulse like an Aston or 911 + A genuinely sporty Maser - A bit heavier and pricier than we'd like	****
Maserati Coupe	- 32	54 F	03-07	8/4244	390/7000	333/4500	1680kg	237	4.8	- 5	177	20	17.6	+ Glorious engine, improved chassis - Overly sharp steering	***
Maserati GranSport		73 F	04-'07	8/4244	400/7000	333/4500	1680kg	239	4.8		180	20	77.0		****
Mazda RX-8 R3	-	2 R	£25,540	2R/1308	228/8200	156/5500	1429kg	162	6.5	16.4	146	16	24.6		****
Mazda RX-8	07	71 R	'03-'08	2R/1308	228/8500	156/5500	1394kg	166	7.0	19.0	146	16	25.2	+ Never mind the quirkiness, it's a great drive - Dull-sounding engine	***
Mercedes-Benz E500 Coup	ne 13	2 D	€50,935	8/5461	382/6000	391/2800	1715kg	226	5.4	-	155	18	25.9	+ The usual V8 Merc strengths - Not overly exciting, no AMG version coming	***
Mercedes-Benz CLK63 AN	fG 09	2 D	'06-'09	8/6208	481/6800	464/5000	1755kg	278	4.6	*	155	20	19.9	+ Power, control, build quality - Lacks ultimate involvement	****
Mercedes-B CLK63 AMG E	Black 10	36 F	107-109	8/6208	500/6800	464/5250	1760kg	289	4.2	*	186	20		+ AMG goes Porsche-hunting - Dull-witted gearshift spoils the party	****
Mercedes-Benz CL63 AMG			£111,985	8/5461	536/5500	590/2000	2060kg	264	4.5	-	155	-	15	+ Presence, pace, monster engine - Stiff ride, stiff competition	***
Mercedes-Benz CL65 AMG			£154,930	12/5980	603/4800	737/2000	2240kg	273	4.4	2	155	20	19,1	+ Unsurprisingly rapid on non-wiggly bits - Lacks charm, involvement	***
Mercedes-Benz CL65 AMO		59 F	03-06	12/5980	612/6500	738/5950	2155kg	289	6.4	-	186	20		+ If depreciation's done its work Steering slightly disappointing	****
Morgan AeroMax			£110,000	8/4799	362/6300	370/3600	1180kg	312	4.1	-	170	20	100	+ Weird and utterly wonderful - They're all sold	****
Nissan 370Z		11 F 17 R	€28,345 '07-'09	6/3696	326/7000 309/6800	269/5200 264/4800	1520kg 1532kg	218 205	5.4	13.0	155 155	19	24.1	+ Quicker, leaner, keener than 350Z - Not quite a Cayman-killer	****
Nissan 350Z (309bhp) Nissan 350Z (296bhp)		74 F	06-07	6/3498	296/6400	260/4800	1525ka	197	5.8	13.0	155		24.8	+ Huge fun, and great value too - Honestly, we're struggling + Small power boost adds to Z's appeal - As below	****
Nissan 350Z (276bhp)		9 D	.0306	6/3498	276/6200	268/4800	1525kg	184	6.1	14.8	155		24.8		****
Nissan 2005X	- 00	, ,	94-'02	4/1998	197/6400	195/4800	1267kg	158	6.5	- 14.0	142	17	29.1	+ Fast, cheap and rwd - Looks, image	***
* Nissan GT-R	15	0 D	c€70,000	6/3799	520/6400	475/3200	1740kg	304	3.5	-	194	20	2000		****
* Nissan GT-R Spec V			£124,950	6/3799	478/6400	447/3500	1680kg	289	3.4		193	20	16	+ Phenomenal brakes and handling - Not really worth the extra £55K	****
Nissan Skyline GT-R (R34)	00	19 R	'99-'02	6/2568	276/7000	289/4400	1560kg	180	4.7	12.5	165	20	20.1	+ Big, brutal, and great fun - Very firm ride	****
Nissan Skyline GT-R (R33)	01	19 F	'97-'99	6/2568	276/6800	271/4400	1540kg	182	5.4	14.3	155	20	22.0	+ Proof that Jap hi-tech can work (superbly) - Limited supply	****
Noble M400	08	39 F	'04-'06	6/2968	425/6500	390/5000	1060kg	407	3.5	-	185	20	7.	+ Devilishly fast - Demon Tweeks interior	****
Noble M12 GTO-3R	1,000	70 F	.0309	6/2968	352/6200	350/3500	1080kg	332	3.8	2	170	20	20	+ The ability to humble exotica - Flawed driving position	****
Noble M12 GTO		23 R	.0003	6/2544	310/6000	320/3500	980kg	321	4.1	10.2	165	20	-	+ Gives GT3 drivers a fright - Styling could be more cohesive	****
Peugeot RCZ 1.6 THP 200		3 D	€22,750	4/1598	197/5500	202/1700	1297kg	154	7.5		147		40.9	+ Distinctive looks, highly capable handling - Could be a bit more exciting	****
Porsche Cayman		31 F	€37,261	6/2893	261/7200	221/4400	1330kg	199	5.8	-	165	18	30.1		****
Porsche Cayman S		32 F	£45,449	6/3436	315/7200	273/4750	1350kg	237	5.2	-	172	19	29.7		****
Porsche Cayman S Porsche 911 Carrera (997		77 F	"06-"09 £64,256	6/3387	291/6250 341/6500	251/4400 288/4400	1350kg 1415kg	219 245	<b>5.3</b> 4.8	12.2	171	19	26.6		***
Porsche 911 Carrera S (99		21 F	£72,894	6/3800	380/6500	310/4400	1425kg	271	4.6		188	20	27.4	Faster and greener than the mk1 997 - Lost a little of the 911 magic     Poise, precision, blinding pace - Feels a bit clinical	****
Porsche 911 Carrera 4 (99)			€68,694	6/3614	341/6500	288/4400	1470kg	236	5.0	3	175	19	28.0		****
Porsche 911 Carrera 45 (9	100000	_	£77,331	6/3800	380/6500	310/4400	1480kg	261	4.8	-	179	20	26.9		****
Porsche 911 GT3 (997.2)		88 F	€85,564	6/3797	429/7600	317/6250	1395kg	312	4.2	9.2	194	20	22.1	+ Even better than the car it replaces - Give us a minute	****
Porsche 911 GT3 RS (997.2			E106,870	6/3797	444/7900	317/6750	1370kg	329	4.0		193	20	1/2		****
Porsche 911 Sport Classic		10000	£137,529	6/3800	402/7300	310/4200	1425kg	287	4.6	-	188	20	000	+ Curious concept that works well - GT2 price with Carrera S performance	****
Parsche 911 GT3 (997.1)	10	13 R	'07-'09	6/3600	409/7600	298/5500	1395kg	298	4.3	9.4	192	20			****
Porsche 911 GT3 RS (997.	1) 10	35 F	'07-'09	6/3600	409/7600	298/5500	1375kg	302	4.2		193	20		+ evo Car of the Year 2007 - £15K more than the brilliant GT3	****
Porsche 911 GT3 (996.2)	06	66 F	03-05	6/3600	375/7400	284/5000	1380kg	272	4.3	9.2	190	20	-	+ evo Car of the Year 2003 - Looks softer than previous GT3	****
Porsche 911 GT3 RS (996.2	2) 06	8 R	'03-'05	6/3600	375/7400	284/5000	1330kg	286	4.2	9.2	190	20		+ Track-biased version of above - Limited supply	****
Porsche 911 RS (993)	03	86 R	'95	6/3746	300/6500	262/5400	1270kg	240	4.7	11.2	172	20	-	+ Barking engine note, gearchange - Not quite hardcore enough	****
Parsche 911 GT3 (996.1)	06	66 F	99	6/3600	360/7200	273/5000	1350kg	271	4.5	10.3	187	20	21.9	+ Our Car of the Year 1999 - Porsche didn't build enough	****
Porsche 911 Carrera S (99	7.11 07	70 F	'04-'08	6/3824	350/6600	295/4600	1420kg	246	4.6	10.9	182	20	24.5	+ 'S' is like a junior GT3 - Tech overload?	****
Porsche 911 Carrera 45 (9		51 F	'02-'05	6/3596	316/6800	273/4250	1470kg	218	5.1		174	20	-	+ Second best 996 only to the GT3 - Very little	****
Porsche 911 Carrera (996	3.41 00	18 R	'98-'01	6/3387	300/6800	258/4600	1320kg	230	4.6		173	20	28.0	+ Beautifully polished 911 - Some like a bit of rough	****
Porsche 911 Carrera (993)			94-97	6/3600	285/6100	251/5250	1372kg	211	5.2	-	168	20	25.0		****
Porsche 968 Club Sport	01	19 F	'93-'95	4/2990	240/6200	225/4100	1335kg	183	6.1	15.7	149	20	0.20		****
Porsche 928 GTS			'92-'95	8/5396	350/5700	317/4250	1790kg	199	5.2	12012	171	20	17.0	+ Big-hearted and beautiful - Be sure to buy a good one	***
Renault Alpine A610			'92-'96	6/2975	250/5750	258/2900	1420kg	179	5.4	13.8	160	19	21.0	+ Overlooked, bargain-price French 911. Try one - R5 interior	****
Superformance Daytona C	22		E102,225	8/6162	437/5900	424/4600	1300kg	342	3.9	40.0	200+	20	100	+ Awesome engine, awesome looks - Damp roads equal moist palms	***
TVR T350C		9 D	03-07	6/3605	350/7200 406/7500	290/5500	1100kg	318	3.7	10.0	175	20		+ Looks, engine - Unsupportive seats; chassis lacks ultimate polish	****
TVR Sagaris		76 R	05-07	6/3996	400/7000	349/5000	1078kg	383	4.0	-	185 185	20			****
TVR Tuscan S (Mk2) TVR Typhon		12 F	'06	6/3996	400/7000	315/5250 330/5250	1100kg 1060kg	369 383	3.9		180+	20		Possibly TVR's best ever car - Aerodynamic 'enhancements'     Carbon body, exclusivity - Interesting damping, no supercharger	***
		14 R	98-104	6/3966	350/6800	330/5230	1130kg		5.0	11.4	160+	20			****
TVR Cerbera Speed Six TVR Cerbera 4.5		14 F	98-04	8/4578	420/6750	380/5500	1100kg	315 388	3.9	11.4	180+	20		+ Accomplished and desirable - Check chassis for corrosion + Genuine supercar pace - Integrity?	****
Vauxhall Monaro VXR 6.0		79 D	05-07	8/5967	398/6000	391/4400	1677kg	241	5.1		180+	20		Improved chassis and steering, 180mph - Looks a bit snouty	****
VW Scirocco 2.0 TSI		2 R	£23,615	4/1984	207/5300	207/1700	1298kg	162	6.9	-	149	16	38.2		****
VW Scirocco R			€28,505	4/1984	261/6000	258/2500	1352kg	196	5.8	-1	155	-	35.3	+ Great engine, grown-up dynamics - Looks very grown-up, too	***
VW Corrado VR6		75 F	92-96	6/2861	190/5800	180/4200	1237kg	156	6.2	~	143	18	29.5		****
Wiesmann GT MF4			E108,000	8/4799	362/6300	361/3400	1250kg	294	4.5	-	174	20	1		****
Wiesmann GT MF5		7 D	£150,000	10/4999	500/7750	383/6100	1380kg	368	3.9		193	20	100		****

#### **EVO** PAST MASTER

VAUXHALL VX220 TURBO - ISSUE 054, APRIL 2003

Launched in Spain on roads used for the Catalunya Rally, Vauxhall's miniature supercar was in its element. We loved it...

ombining the deft agility of a pure-bred mid-engined sports car with the honest-to-goodness wallop of the best part of 200 turbocharged horsepower and 184lb ft of torque, the VXT now has the potential to provide as much stimulation between the corners as it does through them, hitting 60mph in 4.7sec, 100mph in 12sec and a top speed of more than 150mph, according to Vauxhall.

It's a class act. You drive in a heightened sense of awareness, interpreting the constant stream of information from the steering as though the car is feeding you Braille pacenotes. The VXT combines precision and delicacy with sheer grunt, enabling you to capitalise on entry speed by firing it from the mid-point to the exit.

It's a uniquely exciting experience: an inspired union of sports car agility and exploitability spliced with quasi-supercar shove. All it lacks is the soundtrack to match, but that's just nitpicking. Put simply, you won't find another new £25K car to touch it."



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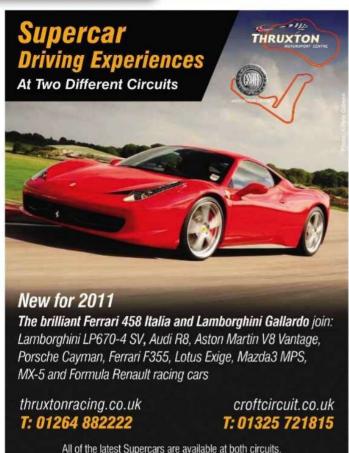


OUR CHOICE Ferrari 599 GTO. You can argue about the use of the Gran Turismo Omologato tag (one thing it isn't is an homologation car), but everything else about the GTO just feels so right, from its 661bhp V12 to its racecar-sharp chassis. A legend in the making.

Best of the Rest: Bugatti's Veyron is an incredible achievement, but you'd have as much sheer fun in a 458 Italia or Gallardo Balboni. We also love the utterly wonderful Murciélago LP670-4 SV (right), Porsche's ballistic GT2 RS and Mercedes' 'gullwing' SLS AMG.



THE RESERVE AND A SECOND	1	al Control		100	so right, i is. A legen		1000000000						go LP670-4 SV (right), Porsche's I Mercedes' 'gullwing' SLS AMG.	
9ff GT9R	127 D	c£450,000	6/4000	1120/7850	774/5970	1346kg	845	2.9		260	2	102	+ Above 100mph eats Veyrons for breakfast - Eats M3 dust at traffic lights	***
Aston Martin V12 Vantage	146 R	£135,000	12/5935	510/6500	420/5750	1680kg	308	4.4	9.7	190	20	17.3		****
Aston Martin Vanguish S	110 F	'05-'07	12/5935	520/7000	425/5800	1875kg	282	4.9	10.1	200	20	Mallin-	+ Vanguish joins supercar greats - A tad intimidating at the limit	***
Aston Martin Vanquish SDC	035 F	'01-'05	12/5935	460/6500	400/5000	1835kg	255	4.9	10.2	190	20		+ Aston's genuine Ferrari rival - Needs Sports Dynamic Pack to shine	***
Aston Martin Vantage s/c	001 R	'93-'00	8/5340	550/6500	550/4000	1988kg	281	4.6		186	20	13.1		***
Aston Martin Vantage 600	131 F	'98	8/5340	600/6200	600/4400	2020kg	302	4.6	11.0	190	20		+ A proper, full-fat Aston Martin - Running costs will be equally 'proper'	****
BMW M1		78-'81	6/3500	277/6500	239/5000	1303kg	216	5.8	-	161	20	-	+ Early supercar icon - A bit under-endowed these days	****
Bristol Fighter	146 R	£234,982	10/7990	525/5500	525/4200	1600kg	333	4.0	-	210	20	000	+ Unique, intriguing, goes like stink - Looks perhaps not for everyone	***
Bugatti Veyron 16.4	134 F	c£925,000	16/7993	1000/6000	922/2200	1950kg	521	2.8	5.8	253	20	102		****
Bugatti Veyron Grand Sport	133 F	cE1.4m	16/7993	1000/6000	922/2200	1990kg	510	2.6	-	253	20		Warp speed and ferocious noise sans-roof - Ridiculous brolly/roof thing	****
Bugatti EB110	078 F	191-195	12/3500	552/8000	451/3750	1566kg	358	3.4		212	20		+ Superbly engineered 4wd quad-turbo rocket - It just fizzled out	***
Caparo T1	138 F	£301,975	8/3499	575/10,500	310/9000	689kg	848	3.8	6.2	205	20	100	+ Absolutely staggering performance - Absolutely staggering price tag	***
25-14-21-2-16-6		£106,605	8/6162	638/6500	603/3800	1528kg	424	3.8	7.6	205	20	18.8		***
Chevrolet Corvette ZR1	133 R									-			+ Huge pace and character - Take plenty of brave pills if there's rain	***
Ferrari California	143 F	£143,870	8/4287	453/7750	358/5000	1735kg	265	3.8	9.0	193	20	21.5	+ Despite the CC roof, it's a real Ferrari - We'd still take an F430 Spider	
errari 458 Italia	149 F	E169,545	8/4499	562/9000	398/6000	1485kg	384	3.4		202	20	21.2		****
Ferrari 599 GTB Fiorano	101 R	£207,620	12/5999	611/7600	448/5600	1688kg	368	3.5	7.4	205	20	15.8	are our or the roat bear a gently from the roat	****
Ferrari 599 GTB Fiorano HGTE	146 R	£221,884	12/5999	611/7600	448/5600	1688kg	368	3.5	7.4	205	20	100	The above, the determine unique and the attitude and and the training	
errari 599 GTO	149 F	£299,300	12/5999	661/8250	457/6500	1605kg	418	3.4		208	20	1000		****
Ferrari 612 Scaglietti F1	090 R	£217,775	12/5748	533/7250	434/5250	1840kg	294	4.3	9.8	199	20	13.8		***
Ferrari F430	087 F	'04-'10	8/4308	483/8500	343/5250	1450kg	342	4.0	- 5	196	20	18.6		****
Ferrari F430 Spider	095 F	'04-'10	8/4308	483/8500	343/5250	1520kg	326	4.1	~	193	20	18.6		***
Ferrari 430 Scuderia 16M	133 D	09-10	8/4308	503/8500	347/5250	1440kg	356	3.7	- 5	196	20	10 Ein		****
Ferrari 430 Scuderia	121 R	'07-'10	8/4308	503/8500	347/5250	1350kg	378	3.5	7.7	198	20	15.7		***
Ferrari 360 Modena	008 R	'99-'04	8/3586	400/8500	275/4750	1390kg	292	4.5	9.0	180+	20	17,0		***
errari 360 Challenge Stradale	068 R	03-104	8/3586	420/8500	275/4750	1280kg	333	4.1		186	20		+ Totally exhilarating road-racer. It's loud - It's very, very loud	***
errari F355 F1 Berlinetta	003 F	'97-'99	8/3496	375/8250	268/6000	1332kg	286	4.7		183	20	16.7		***
Ferrari 575M "Fiorano"	050 D	'02-'06	12/5748	508/7250	434/5250	1730kg	298	4.2	9.6	202	20	12.3		***
Ferrari 550 Maranello	066 F	'97-'02	12/5474	485/7000	415/5000	1716kg	287	4.3	10.0	199	20	12.3	+ Everything - Nothing	***
Ferrari Enzo	149 F	02-04	12/5998	650/7800	485/5500	1365kg	484	3.5	6.7	217+	20	20	+ Intoxicating, exploitable - Cabin detailing falls short of Zonda or F1	***
Ferrari F50	064 F	'96-'97	12/4968	513/8000	347/6500	1229kg	424	3.7		202	20	100	+ The best drivers' Ferrari - Lines lack tension	****
Ferrari F40	064 F	'87-'92	8/2936	478/7000	425/4000	1100kg	441	3.7	3	201	20	20		***
Ferrari 288GTO	064 F	'84-'85	8/2855	400/7000	366/3800	1160kg	350	4.9		189	20	-		***
Ferrari 512TR		'92-'94	12/4943	422/6750	362/5500	1517kg	291	4.8	-	195	20	16.0	+ Pick of the flat-12 Ferraris, incredible sound - It's a bit wide	***
Ford GT	087 F	'04-'06	8/5409	550/6500	500/3750	1583kg	353	3.7	2	205	20	-	+ Our 2005 Car of the Year - JC had one, Reckoned it didn't handle	***
Sumpert Apollo	110 F	£275,000	8/4163	690/6300	675/4000	1200kg	584	3.0	-	220+	20	1	+ Stupendous perfomance, 'Apollo' - High price, 'Gumpert'	***
Jaguar XJ220	131 F	'92-'94	6/3498	542/7200	475/4500	1470kg	375	3.7		213	20		+ Britain's greatest supercaruntil McLaren built the F1	***
Koenigsegg CCX	094 F	c€500,000	8/4700	806/6900	678/5700	1180kg	694	3.9	7.7	241	20	100	+ Sweden's greatest supercar - Sweden's only supercar	***
Koenigsegg CCXR Edition	118 F	c£1.5m	8/4800	1004/7000	796/5600	1280kg	797	2.8		254+	20	16	+ The world's fastest car. Probably - Spikey power delivery	***
Koenigsegg CC85	061 F	'03-'06	8/4700	655/6800	553/5000	1175kg	566	3.3	-	242	20		+ Pretty darned quick - A tad intimidating	***
amborghini Gallardo LP550-2	138 F	£166,784	10/5204	542/8000	398/6500	1380kg	399	3.9		199	20	(8)	+ The mad rear-driven Lambo is back! - For a limited period only	***
amborghini Gallardo LP560-4	122 R	£149,107	10/5204	552/8000	398/6500	1410kg	398	3.7	7.8	202	20	20.0	+ Great car gets quicker and cleaner - Rocky ride; grabby carbon brakes	***
amborghini LP560-4 Spyder	130 F	£155,860	10/5204	552/8000	398/6500	1550kg	362	4.0	*	201	20	20.0	+ The sound of a V10 with no roof - A smidge less hardcore than the coupe	***
amborghini LP570-4 S'leggera	150 F	£174,840	10/5204	562/8000	398/6500	1340kg	426	3.5		202	20	(0)	+ A reminder of how great the Gallardo is - LP560-4 does as good a job	***
Lamborghini Gallardo	094 F	'06-'08	10/4961	513/8000	376/4250	1520kg	343	4.3	9.4	196	20		+ On a full-bore start it spins all four wheels, cool - Slightly clunky e-gear	***
amborghini Gʻardo Sʻleggera	104 F	'07-'08	10/4961	522/8000	376/4250	1420kg	373	3.8	-	196	20		+ Lighter, more agile - Grabby carbon brakes, clunky e-gear	***
amborghini Murciélago LP640	093 F	E212,750	12/6496	631/8000	487/6000	1665kg	385	3.3	-	211	20	21.3	+ Compelling old-school supercar - You'd better be on your toes	****
ambo M'lago LP640 Roadster	101 D	£232,990	12/6496	631/8000	487/6000	1690kg	379	3.4	8.0	205	20	21.3	+ Open-top thrills come no bigger - The hood's a bad joke	***
ambo M'lago LP670-4 SV	138 F	£270,038	12/6946	661/8000	487/6500	1565kg	429	3.2	7.3	212	20	1	+ A supercar in its truest, wildest sense - Be prepared for stares	***
amborghini Murciélago	089 D	'01-'06	12/6192	570/7500	479/5400	1650kg	351	4.0	-	205	20	20		****
amborghini Diablo 6.0	019 F	'00-'02	12/5992	550/7100	457/5500	1625kg	343	3.8	-	200+	20	1		****
amborghini Diablo GT	016 F	99-'00	12/5992	575/7300	465/5500	1490kg	392	4.1	8.3	211	20	12.5		****
amborghini Countach QV		88-91	12/5167	455/7000	369/5200	1447kg	320	4.9	-	180	20	13.7	+ Still the definitive supercar - Visibility, pract- oh hell, who cares?	***
exus LFA	141 F	£336,000	10/4805	552/8700	354/6800	1480kg	379	3.7		202	20		+ Absurd and compelling supercar - Badge and price don't quite match	****
Maserati MC12	079 R	'04-'05	12/5998	621/7500	481/5500	1445kg	437	3.8		205	20	40	+ Rarer than an Enzo - The Ferrari's better	***
McLaren F1	145 F	94-'98	12/6064	627/7500	479/4000	1137kg	560	3.2	6.3	240+	20	19.0		***
Mercedes SL65 AMG Black	131 F	£250,000	12/5980	661/5400	737/2200	1876kg	358	4.0	8.1	199	20	80-	+ Bonkers looks, bonkers speed - Bonkers price	***
Mercedes SLS AMG	146 R	£157,500	8/6208	563/6800	479/4750	1620kg	335	4.1	8.4	197	20	100	+ Great engine and chassis (gullwing doors too!) - Slightly tardy gearbox	***
fercedes SLR McLaren	073 F	'04-'07	8/5439	617/6500	575/3250	1618kg	387	3.7	-	208	20		+ Zonda-pace, 575-style drivability - Dreadful brake feel	***
Mercedes SLR 722 McLaren	103 D	707	8/5439	641/6500	605/4000	1574kg	414	3.5	-	209	20		+ Monster presence, monster pace - Highly strung	**
Voble M600	138 F	c£200,000	8/4439	650/6800	604/3800	1250kg	528	3.0		225	20			****
Pagani Zonda Cinque Roadster	147 D	c£1.5m	12/7291	669/6200	575/4000	1400kg	485	3.4	-	217+	20	0.50		***
Pagani Zonda F Roadster CS	127 F	'06-'08	12/7291	641/6200	575/4000	1400kg	465	3.5	-	214	20			***
Pagani Zonda F	082 F	'05-'06	12/7291	602/6150	575/4000	1230kg	497	3.6		214	20	115		****
Pagani Zonda C12S	096 F	01-05	12/7291	555/5900	553/4050	1250kg	451	3.6		197	20	116		***
Porsche 911 Turbo [997.2]	140 R	£105,927	6/3800	493/6000	479/1950	1570kg	319	3.2	7.3	193	20	24.8		***
		THE PROPERTY OF THE PROPERTY O	6/3800	BORNOUS CONTRACTOR		- INCOME.		BB00000	6.8	196	20	24.0		***
orsche 911 Turbo S (997.2)	146 R	£123,263		523/6250	516/2100	1570kg	339	2.9	0.0			10		***
Porsche 911 GT2 RS [997.2]	149 F	£164,107	6/3600	611/6500	516/2250	1370kg	453	3.5	0.77	205	20	00.4		
Porsche 911 Turbo (997.1)	094 F	'06-'09	6/3600	472/6000	457/1950	1585kg	303	4.0	8.7	193	20	22.1		****
Porsche 911 Turbo (996)	017 F	'00-'06	6/3600	420/6000	413/4600	1540kg	272	4.1	10.0	189	20	21.0		****
Porsche 911 GT2 (996)	072 F	'04-'06	6/3600	475/5700	457/3500	1420kg	339	4.0	-	198	20			***
Porsche 911 Turbo (993)	066 F	'95-'98	6/3600	408/5750	398/4500	1502kg	276	4.3	9.2	180	20	19.4		***
Porsche 911 GT2 (993)	003 F	'96-'99	6/3600	430/5700	398/4500	1290kg	339	3.9	- 5	184	20	-		***
Porsche Carrera GT	149 F	104-106	10/5733	604/8000	435/5750	1380kg	445	3.8	7.6	205	20			***
Porsche 959	149 F	87-190	6/2850	444/6500	369/5000	1450kg	311	3.7	-	197	20			***
tuf Rt 12	097 F	c£155,000	6/3746	641/7000	641/3500	1530kg	426	3.3		219	20	100		***
Ruf CTR3	126 F	c£357,000	6/3746	691/7600	656/4000	1400kg	501	3.2	-	235	20	1/2		***
Ruf CTR 'Yellow Bird'	097 F	'87-'89	6/3366	469/5950	408/5100	1170kg	345	4.1	-	211	20		+ A true legend - We can't all drive like Stefan Roser	***
Sportec SPR1 M	136 D	c£600,000	6/3600	846/8200	642/4800	1450kg	593	3.0	6.4	240+	20	-	+ A 911 Turbo that accelerates like Concorde - And costs almost as much	***
pyker C8 Aileron	141 D	£191,000	8/4163	400/6800	354/3500	1425kg	285	4.5	-	187	20	-	+ Most convincing Spyker yet - Its rivals are quicker	***
	080 F	£68,000	8/6277	640/6500	560/4800	980kg	666	2.7	5.5	231	20	100	+ Awesomely rapid, and capable too - Race-car compromises	***



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# Ask the experts

Every issue we put your questions to our panel of experts

#### **BUYING CARS**

I am about to give up my motorbike for a car due to work and health reasons. The challenge is to find something exciting within my budget of £12,000-£17,000.

I need to be able to use it for commuting, I don't want it to be stupidly expensive to run, practicality is not much of an issue (ten years of GSXR 1000 have rendered me resourceful) but reliability needs to be good.

I want to keep up with my brother's 57-reg Nissan 350Z, and my 54-inch chest means I won't fit in something Elise or VX220-like. My thoughts include Mégane 250 Cup, Audi S3, Focus ST Mountune, Golf R32 or simply a 350Z. Please help! – David Fort

Your brother's Nissan 350Z gives about 200bhp per ton so you'll need to match that to keep up in a straight line. As you say, you could also get a 350Z, and that would be good fun; it's got a great rear-drive chassis, and the later the model the better, because the power went up each time the car was revised.

But what of the other cars on your shortlist? They're all hot hatches, but I have a couple of rear-drive suggestions that we'll get to later.

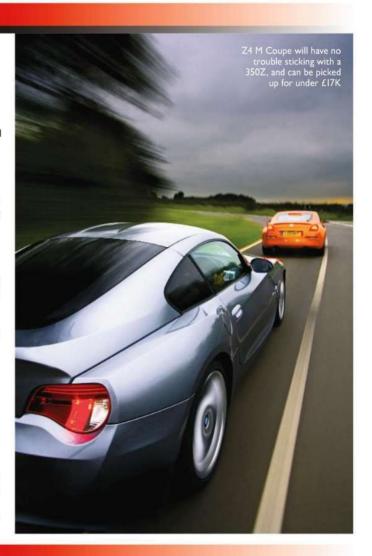
The mk5 Golf R32 is a lovely car with a characterful 3.2-litre VR6 under the

bonnet and four-wheel drive, but it's a touch uninspiring chassis-wise, and in terms of outright pace it isn't going to cut it: 246bhp and 1510kg leaves it a bit short.

The Audi S3, also four-wheel drive, is neater dynamically and with 261 bhp and less weight it has the grunt too, but it's efficient rather than effusive and some find it hard to warm to. In character, the Focus ST is more like the R32, and with the Mountune upgrade it's usefully faster, but I think it would fall just short of the Nissan's pace.

Not so the new Mégane RS 250, which is clean and capable, dynamically. I'm surprised it's within the price range – I've not seen many for less than £18K – and if I had that much to spend I'd be seriously drawn to the previousgeneration R26.R, a truly sublime fast hatch. It's wilfully impractical but worth the sacrifice, I reckon.

The two rear-drivers I'd be drawn to are both BMWs. The last-generation Z4 M Coupe with the classic M Power straight-six has 241 bhp per ton, looks seriously good value for money and is super stylish, too. It might be a bit of a squeeze for you, though, so if that is the case I'd suggest the M3 equivalent, the last-of-the-line E46 M3 CS. Not only was this the best looking E46 after the CSL but it also had the best chassis and was available with the manual gearbox. Either would give the Nissan a proper run for its money – JB



#### THE EXPERTS



#### JOHN BARKER

our road test
 editor has been
 road-testing and
 racing since the late

'80s and has driven every significant supercar and performance car since. Want to know which car to buy next? Barker's your man



#### RALPH HOSIER

 an engineer by profession, with stints at Ford,
 Bentley and Jaguar

among others, Hosier is passionate about all things automotive. He also campaigns a Triumph GT6 racer with a V12 engine, naturally



#### ROGER GREEN

 experienced racer and trackday specialist Green answers all your

questions related to circuit driving. He's also our used car expert, so can tell you exactly what to look for when buying second-hand



#### COLIN

 having mastered his craft as a motor industry driver trainer, Hoad is now

chief instructor at CAT Driver Training (catdrivertraining.co.uk) and is ready to help you improve your performance driving skills

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# Ask the experts

We answer your motoring questions

#### MOTORSPORT

I've got a nine-year-old petrolhead boy. He's desperate to get into pretty much any type of motorsport activity. Are there clubs/ organisations/training institutions where he can get a regular fix? – Emanuele Follett, London

There are a few options open to the budding motorsport nut, and it's important to encourage this kind of enthusiasm. The first port of call should be Go Motorsport (www.gomotorsport.net). Set up by the MSA to get as many people as possible involved in motorsport, whatever their age, it includes initiatives to get youngsters out on track.

Karting is the most obvious and most accessible route, as both indoor and outdoor venues run courses for kids and the Go Motorsport organisation has set up a 'Let's Go Karting' scheme that runs taster sessions for just a fiver.

Looking a little further afield, Santa Pod runs junior dragsters that are available to anyone over the age of eight. A day will cost £139 – visit www.santapod.co.uk for further information.

If your son wants to race a car, then stock cars are where you need to head. Mini Stocks can be raced by anyone over 11, which means you have plenty of time to find your nearest track and check out the current scene before your boy reaches that mark.

For circuit racing he will have to wait until he's 16, but rallycross in 1-litre Minis starts from the age of 14, and you can also rally in the same cars at the same age in the Formula 1000 Rally Championship. Co-driving starts at the same age, but navigating on road rallies can be done from the age of 12. If he likes getting muddy and not going very fast then there is a junior trials category for eight-year-olds, but it's fun rather than glamorous as he'll be using a ride-on mower!

Finally, if being involved rather than taking part will suffice, then the cadet marshals begin at age 11 (www.volunteersinmotorsport.co.uk). We can never have too many marshals, so this is a great way to help the sport while getting close to the action – **RG** 



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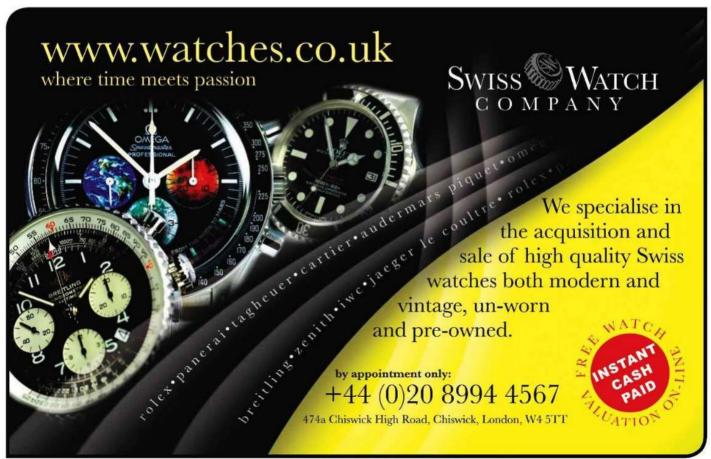
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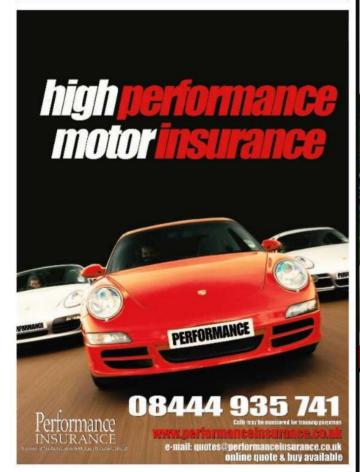












# Ask the experts

We answer your motoring questions

#### **TUNING & ENGINEERING**

My brothers-in-law and I are looking to run a track motor for low money. We thought about a Caterham/Westfield, but concluded that £5K would not get us very far. So how do you rate the E36 BMW M3 as a potential track car for someone looking for a lot of bang for their bu ck? – Naoise Enright

The E36 M3 is a superb basis for a track car. Straight out of the box it handles well, is quite swift and is loads of fun to drive on the limit. In short, it's a good choice.

As with any trackday toy, before thrashing it mercilessly all day it will need a bit of work, starting with a very thorough service. Get any worn bushes replaced or upgraded to restore crisp handling, invest in a good performance engine oil and consider race brake fluid to combat fade. Track-biased brake pads will also improve reliability and consistency – two essential ingredients for a successful day.

The most important components are the tyres, so choose the best track

tyres you can afford, and remember that tyre pressures can be adjusted to tune the handling to suit your style.

Once the trackday bug has bitten deep you will no doubt want to improve your car's performance. Lowered and adjustable suspension will firm up the handling very nicely. You might also want to strip out the interior trim and ditch the relatively luxurious seats in favour of some lightweight race items. And of course there will be the temptation to tune the engine with uprated parts...

This is all good stuff, but the parts you will be removing are the very parts that made the M3 different from the lesser 3-series, so it's worth considering starting with a non-M car and spending the money you save on performance goodies. This principle applies to any factory special; if you take the base model and fit a tuned engine, track suspension, brakes and interior, you might just end up with a better track car for less cash.

Having said that, you'd have to go a long way to find an engine as sweet and powerful as that M3 lump – RH



#### THE EXPERT



#### **RALPH HOSIER**

 engineer and racer Hosier answers your questions about how cars work and how best to tune them

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#### THE BACK TO THE FUTURE FAN WHO MADE HIS CHILDHOOD DREAM CAR A REALITY

hen I grow up, I'm going to drive one of those.'
I can't imagine how many times during my childhood I must have said those words about the DeLorean DMC-12 as I sat watching Christopher Lloyd explain what makes time travel possible. Nobody really listened to me, though. It was 'a phase' apparently, and all kids my age wanted one. But I wasn't like the rest – I didn't change my mind as soon as Knight Rider came on. I meant it, and eventually I made good on my promise.

It's easy to see why the DeLorean appealed to the kid in all of us, what with its unpainted finish and those gullwing doors, even if most of them had to make do without the flashing lights and flux capacitor of the *Back to the Future* car. But what really held my interest was the intriguing story of the car's creation, which would make a movie in its own right — except that with millions of pounds of government cash unaccounted for, an FBI drugs bust and entrapment, it would probably seem too far-fetched.

It was 2007, when I was 23, that I finally had the cash to start looking for a DMC-I2. I was less than impressed when the first ad I responded to resulted in me making a seven-hour round trip only to find a note on the seller's door telling me he'd sold the car that morning. So when a few weeks later another I981 model with the five-speed manual 'box appeared for sale ten miles up the road from my Norwich home, it seem like a godsend,

drive and I would have just argued that it warranted a discount.

My early experiences of DeLorean ownership were not without complications, including bringing the car home from Donington Park on the back of an AA lorry and, on another occasion, pushing it home when a driveshaft let go half a mile out of the garage. But my enthusiasm was never dented and with a little time and effort, and a lot of help

As soon as I laid eyes on that beautiful stainless steel body work there was no way I was going home empty-handed

and I promptly committed the cardinal sin of car-buying, plumping for the first one I saw!

Looking back, it was always going to happen that way. As soon as the garage door rolled up and I laid my eyes on that beautiful, 304-grade stainless steel bodywork, there wasn't a chance that I would settle for going home empty-handed. The car could have burst into flames on the test

from Chris Nicholson at DeLorean specialists PJ Grady, days like those seem to be behind me. I intend to put that to the test properly next summer when I (and many other DeLorean owners) will be driving to the factory in Dunmurry, Northern Ireland, to celebrate the car's 30th birthday.

The 130bhp Renault-sourced 2849cc V6 was never going to set the tarmac alight, even in 1981, but the

DeLorean is a comfortable cruiser: For me, though, the car's appeal comes not from its performance but its sheer presence, and from knowing that every mile I travel in it is fulfilment of a childhood dream.

It certainly wouldn't be suited to a shrinking violet or anyone who can't laugh at a *Back to the Future* joke – even if it is the hundredth time they've heard it – but I wouldn't have it any other way. That's all part of what makes it such an icon and why it's a car that everybody seems to love. I rarely stop at the pumps without someone asking questions. When I parked it outside my local Aston dealer one day whilst I went to drool over their latest stock, someone tried to buy it from the rather bewildered saleswoman!

The DeLorean has carved its own little piece of history. In my eyes, there is nothing that could replace it at any time in the future.'

■ To see more pictures of Chris's DeLorean visit www.evo.co.uk. And if you'd like to be featured here with your car, email rogerg@evo.co.uk

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