Classic Car Buyer's Guide



Practical advice, hints and tips on over 40 of the nation's best loved classics



whing a classic car is a dream for many enthusiasts. Often the dream machine is something that harks back to the owner's childhood, or to a time filled with fond memories - whatever the reason, driving a classic car down a country lane on a sunny day is a Utopia many of us aspire to. But as with any car purchase, buying your ideal classic is fraught with risk and responsibility. You need to keep your wits about you when viewing potential purchases, looking out for all the known trouble spots and ensuring that your heart closent't rule your head. If you don't, the risk of buying something that will cause a lot of heartache hassle and excense is high.

That's why the buying guides that have formed a staple part of our editorial in Classic Car Weekly in every issue have proven to be so popular: offering a wealth of specialist knowledge, including what are the common problems, what's the model's history, technical specification, and what's the market and availability like. All of this is crucial information to gen up on before choosing your classic, hence why we've brought together just some of these guides to the

your classic, hence why we've brought together just some of these guides to the nation's more popular classics in one handy reference book. Hopefully it will provide some inspiration for choosing your next classic, and give some useful hints and tips on what to look for. That way your dream car should be just that – and not a nightmare. Happy motorinal.

> Phil Weeden Editorial Director Kelsey Publishing Group

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Aston Martin DB4/5



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ASTON MARTIN DB4, DB5 AND DB6



Engines

On a car where everything can be expensive to put right, here's the thing that can cost the most of all. Rebuilding an Aston Martin straight-six can easily go beyond £20,000 if done by a specialist... and, to be honest, it's a job best left to an expert.

That said, if an engine has been maintained and serviced correctly, they're pretty tough old boots, albeit ones that don't take a lack of care lightly. Oil changes every 2500 miles are critical, and these engines take an enormous amount of oil, so they should never have been allowed to run low. The timing chain should have been replaced every 60,000 miles...its breaking will result in the usual wrecked engine too

On DBs up to the Series 3 cars, you should expect around 70psi oil pressure when warm and cruising. That rises to 100psi for the later cars. Warning bells should start to sound if the gauge read below 45psi. Oil coolers are a positive boon on these cars...if the car you're looking at doesn't have one on, then think about fitting one if you decide to buy. Something the engines can suffer from is overheating, thanks to blocked up waterways around

the iron cylinder liners. It's most likely to be around the back of the engine, around the water pump If, when the car is idling, the car heats up rapidly with the needle too far over towards the danger zone for comfort, this is the likely cause, although coolant leaking through the liner bleed apertures on the right side of the engine also produces this symptom. Look at this side of the engine, and if you see liquid escaping, then this is what's causing the overheating, and things need to be rectified. If you also notice oil here, then things are even worse; it means the lower O-ring isn't doing its sealing job properly, and the oil and water are mixing. And we all know that's never a good sign... An electric fan is a good fitment, but if it's on all the time, you should be concerned about

whether it is trying to cover up inherent overheating problems. Fuel injection was an option on the final DB6s, but only 46 cars had it fitted, which is just as well. as the Brico system is known to be temperamental and tricky to set up properly. Most cars you find will have twin or triple SU carburettors, or replacement Weber units. It takes a person who knows what he's doing to balance the carbs properly - especially on the cars fitted with three - but once everything is in tune, it should stay that way for quite a while.



Parts prices

brake pads, DB5 brake disc, DBS

£74.15 £595.00 £595 nn £265.00 £249.00 £395.00 £187.55 £896.00 £292.50 m £94.99 rice kit DRS

n shock absorbers

£135.00 £2610.00 £206.00

ocification

Specifican	OII			
Car	DB4	DB4GT Zagato	DB5	DB6
Year	1958-1963	1962	1963-1965	1965-1970
Engine size	3670cc	3670cc	3995cc	3995cc
	6-cyl DOHC	6-cyl DOHC	6-cyl DOHC	6-cyl DOHC
BHP/RPM	240bhp	314bhp	280bhp	282bhp
	@5500rpm	@6000rpm	@5500rpm	@5500rpm
Top speed	140mph	153.5mph	142.6mph	140mph
0-60mph	8.5secs	6.1secs	8.1secs	8.0secs
Gearbox	4-speed	4-speed	5-speed manual	5-speed manual
	manual	manual	/3-speed automatic	/3-speed automatic
Consumption	16mpg	14mpg	15mpg	13mpg
Suspension				c dampers, coil springs
	Pear Live av	le trailing arms \	Natt linkage lever arm	dampers coil rorings

6 CCW BUYER'S GUIDE

Aston Martin is to England what Ferrari is to Italy and Porsche is to Germany, and within the hierarchy of its models. the DR4-6 series stand head and shoulders above the rest. RICHARD GUNN discusses buying into the dream

Bodywork

DB models can still look good even when they're hiding trouble. thanks to the aluminium skin laid over the steel skeleton. That said though, these cars were extremely well-built, and were extremely over-engineered, so one that has been looked after well - or

restored expertly - shouldn't have too many lurking horrors. Corrosion can strike at the foot of the bulkhead, where the jacking points, side members and trailing arm mounts (see the suspension section), as well as the bumper supports, pedal box. door hinge mountings, boot floor and the double-skinned bootlid. Want to know more? Well, there's the area around the washer bottle in the engine bay too, which is well-known for collecting grot.

Sills are an obvious place to look at, or rather the two box sections running between the wheels. Shrouded behind the aluminium cover sills, they'll be expensive to repair if needed. If you notice sagging around the jacking points, then the metal all around is weak. Look too at the upper assembly for the Watts linkage (which is behind the rear seat). Rot here is quite common and easily overlooked

Convertibles should be scrutinised even more closely because

water can get inside and attack the floor. The most likely spot for this to happen is around the rear floor section, as there are swage

lines here where moisture pools. If you notice bubbles on the aluminium body panels, then be very concerned. For this to have happened, the alloy has started reacting with the steel underneath, and that means that the frame is going to be in even worse condition. The bottom edges of the

doors are popular locations for this to occur.

Inside the boot - after you've checked the lid of course - do lift out the spare wheel to see what sort of condition its well is in. On some cars, it might not be that nice, as DBs do have something of a reputation for being vulnerable to rust here.

All over the body, look for signs of filler visually - rough areas or paintwork that's a little off-shade compared to what's around it - as magnets are of no use on aluminium, so won't tell you zilch! Seeing as Aston Martin didn't use filler when building these cars - unlike some other manufacturers - any that you do come across is a sign of repairs, and possibly not very good ones at that, as the natural flex of the body will cause it to fall out before too long.

uspension

Corrosion can cause the front suspension trailing arms to become detached...something that needs to be checked from underneath. And while under there, keep an eye out for rusted sockets where the rear arms of the lower front wishbones attach, as well as the straps on the steering rack. They anchor it in place, so need to be in good order. Rubber mounting bushes also go, something that will signal itself as excess movement between the chassis and the rack. How to tell? Try a tyre lever in between the two...with the current owner's permission of Steering could be sharp and direct, so if there's any

sloppiness during your drive, worn bushes are the likely culprit. There's a good way to check for sure. Reverse the car quickly. If the tail lifts, then some of the bushes are worn or, even worse, the linkage to the axle is coming loose.

Expect a little bit of whine from the differential, it's part of the whole Aston soundtrack. However, it shouldn't be excessive.

Interior

Given the cost of redoing an interior - trim is expensive, and all that Connolly leather will put you back a pretty penny (well, a pretty £6000 or so) if it needs to be done - it's best to go for a car where the cabin is already in some of the switches can be difficult to source, indicator switches



and headlamp stalks in particular. DB5s and 6s had electric windows, but Aston Martin hadn't quite mastered them yet, so they're not best-known for their trouble-free operation. The motors will slow down before failing completely, so check that the windows go up and down as they should, and

at a reasonable pace. Air conditioning should also be investigated, especially on DB5s. It has some of its louvres under the rear window, where they're rather prone to being warped by the sun.



Brakes

It's disc brakes all around on these cars, although the earlier DB4s have Dunlop ones which generally require more attention than the subsequent cars with dual-circuit Girling systems. Because they wear out more quickly, the Dunlop-braked cars aren't that wellregarded, and conversions to a better system are quite common.

Gearbox

Given the David Brown Company's background in transmissions, it's not exactly a shock to find the first DBs have gearboxes made by the firm...and they're pretty good ones at that. The four-speed cars are pretty trouble-free, although synchromesh is likely to start vanishing, as it does with most classics after a while, and cone wear can result in difficult shifting...up to the point where it becomes impossible to select ratios. However, this will only become apparent after the oil is warm, so test the car long enough to make sure it has. It's a good excuse for a long drive, after all! Five-speed ZF transmissions appeared from the DB5 onwards.

These are generally considered to be even better than the David Brown-equipped cars, aside from their heavy clutches. However, they are expensive to put right if they go wrong (but, then again, what were you expecting with an Aston Martin?). Ones past their best can show a tendency to jump out of gear, and if that happens, a rebuild is on the cards, at a cost of around the two grand mark from a specialist who knows his stuff.

There are some automatic cars out there, but they're not very well-regarded, despite the self-shifters being pretty robust.

Expert Advice

Because of how expensive these cass are, we do recommend getting an expert in to look over any possible purchase before you commit. Even D8s that look - and behave - as they should can hide horrors, and it's wise to find out about these before you buy the car. A very good, extensive service history is a positive sign. The more money spent on a car in the past, the better!

You can check for the originality of a car by looking at the back of a trim panel, where the chassis number should be written in chalk or crayon. However, it's not exactly difficult to replicate crayon or chalk, so don't trust this completely!

HISTORY

1947 Aston Martin, up to this point just another struggling sportscar builder, enters a new era when it is bought by gear and tractor manufacturer (bavid Forom. The change of ownesship is marked by all subsequent Aston Martin models (while the company was owned by David Bovom) bearing the DB prefix.

1958 After the DBI (a retrospective tag, from 1948 to 1950), the DB2 (1950 to 197) and the DB (MIX (1957-1959)), the DB4 appears, it's quite an advancement when compared to previous Astons, 59(fistically the DB4 looks totally current and features Superlegeare construction – this alloy panels over a very strong setel cape i cliented from Louring of Millan. The build process int all that's new, as the car also features a new, all-alloy afforce cargin designed by Tadde Marke. With this will.

carburettors fitted, power output is 240bhp.

1959 The 'high performance' D84 – as if the standard model wasn't high performance enough – is launched with 267bhp and a shorter wheelbase

1960 The Series 2 cars come out, packed with mechanical improvements, although the only real noticeable difference on the outside is that the bonnet is now hinged at the front. As the result of a collaboration with Zayato, the D84 Zayato is constructed...or rather, a mere 19 of them are.

1961 Series 3 D84s last only from April to September, and have a different rear light layout. The Series 4s that follow have bus in their front gille as well as less pernounced bonnet scopps, Comber stored headlamps also become an option...omething that many customers opt for. There are new variations on the D84 theme in the from 2 convertible, and the Vantage, which features three convertibles rather than just two.

1962 The final Series 5 DB4s come with a longer body and a raised roofline.

1963 The DBS comes out as a direct development of the DB4, mainly different for its 3995cc engine and cowled headlamps. One of the first examples is lent to a British film production company which just happens to be making the third of a certain soy thriller series at the time...

1964 "Ejector seat? You're joking!" I never joke about my work, 007. "The Aston Martin DBS ensures itself automotive immortality by finding itself, heavily gadget-modified, in the big cinema hit of the year, Goldfinger.

1965 There's an estate – sorry, shooting brake – conversion of the DBS by coach-builder Hardford Bardford, but Aston Marini Isstell's working on the DB6, a somewhat more obvious update of the DB5 than it was of the DB6. Its longer body provides 2×2 seating, and a Kamm tall and discussion spoiler at the rear improves the handling, Other changes are a new grille and split front bumpers. Meanwhile, the DBS ups its stardom factor by appearing alongside 000 in Thunderball.

1966 The DB6 convertible is dubbed the Volante – the name that all subsequent open-top Aston Martins will go on to be known as.

1969 Although Newport Pagnell is now building the thoroughly different DBS and VB, a MK2 version of the DB6 appears, with wider wheels, flared arches and a new interior. There's also the option of fuel injection...although not a very good one.

Contacts

Aston Martin Owners Club Ltd, Drayton St Leonard, Wallingford, Oxfordshire, OK10 78G or www.amoc.org
Savislicts

- Runnymede Motor Services, Berks. Tel: 01753 644599 or www.
- Desmand J Smail, Bucks, Tel: 01234 713083 or www.djsmail.co.uk
 Chiltern Aston Centre, Herts, Tel: 01442 833177 or www.db7centre.co.uk
 Oselli Engineering, Oson, Tel: 01993 889610 or www.celli.com
- Oselli Engineering, Oxon. Tel: 01993 849610 or www.oselli.com
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 Ian Mason, Aston Martin Services, London. Tel: 020 7727 1944 or
- www.lanmason.co.uk

 HWM Limited, Surrey. Tel: 01932 240611 or www.hwm.co.uk
- HWM Limited, Surrey. Tel: 01932 240611 or www.rwm.co.uk
 RS Williams Ltd, Surrey. Tel: 01932 868377 or www.rswilliams.co.uk
- Stratton Motor Company (Norfolk) Ltd, Norfolk. Tel: 01508 530491 or www. strattonmotor.company.com
- Aston Engineering, Derby, Tel: 01332 371566 or www.astonengineering.co.uk
 Brooklands Motors Company, Surrey, Tel: 01932 828545
- Brooklands Motors Company, Surrey, Tel: 01932 828545
 Bill Monk Classic Cars, Herefordshire, Tel: 01885 490827

How much?

These are just among the most desirable of all Aston Martins. They're among the most desirable of all classics portorars, full story. That means prices are incredibly, almost frighteeinighy high – even given the Aston Martin badge up firont, a label that always means values well over the dods. And they're also cars where values are never likely to start plunging, so it's no use waiting for the bottom to drop out of the market either. It's not likely to happen soon.

If money is no object, then the DB4 GT is the car for you. At around 560,000 for the bear example, it is fail may no blow almost half a million pounds. Next in line connex the DB5, its worth boosted up by the Sond factur. If you war as shere one—and, 18% size it, who deem? "then you can find yourself puring around £150,000 for 16,0000 fly out war the connextelfield. The burgan of the burde.—30th that's thoughair in relative terms—1 the DB6. They can come at the height of a 75,000 for constant in the connextelfield. The connextelfield is the standard of the connextelfield is the connextelfield in the connextelfield is the connextelfield in the connextelfield in the connextelfield is the connextelfield in the connextelfield in the connextelfield is the connextelfield in the connextel

read usain usaic. Fancy just being able to say you've owned an Aston Martin without actually being able to use it? Well, you might be able to get a DB6 for \$20,000. but for that kind of money, it will be extremely rough and will cost you a fortune to put right. And that's as low as prices go for these cars. Even a basketase DB4 GT is likely to be around £200,000.

Verdict

Some things never go out of style, never look tied or dated, never stopbeing anything less than gorgeoux. The Aston Martin D84, 5 and 6 series are a case in point. They're the eller of classic cars, and to own one, even to drive one briefly, puts you a cut above the rest of the world around you. Utterly aspirational.

These aren't cars you can run on the cheap. They demand the best, and they'll expect you to pay for it. Don't go into Aston Martin ownership thinking you'll come out of it a richer person. You won't.

But, unlike a lot of so-called superars, these machines are worth every permy. They're glorinous and glorious, and project the same area on whoever is with them. Performance is still impressive, even given the progression in which technology since these cars were new but really, it's not so much about what these cars do any more as how good they make you feel while they de origin; And that sygood, also very, very, good, In terms of buying choice, the DBG is probably the most civilised of the bunch, but also the cheeses, by qualte a loon way in Youver's some ecode

just won't be satisfied without a silver Aston Martin DBS...

Insurance quote

For a 1966 Aston Martin D86 Mk1, valued at £50,000, based in Peterborough

Fully comp, £725.55 for a 29-year-old, two years' NCB, 10,000-mile limit,
only car, kept on driveway, club member

 Fully comp, £224,70 for a 50-year-old, full NCB, 3000-mile limit, second car, garaged, club member



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ASTON MARTIN DB7



Engines



DB7s came with six cylinder and V12 engines; rather understandably, everybody stopped bying the six port cars when the 12-cylinder ones were blumched. Well, you would, wouldn't you'll it is a Aston with a V12 after all. However, whichever, engine potion you decide to go for, the wrise are well-built, brough, and have usually unstressed, as whoever gets a chance to take a DB7 to its full potential in this country! The V12 is generally recogniced as the better of the row engines, having been specially developed in the Niterless rather than developed from an older bear specially developed in the size of the V12 in the V12

sake yimider, sciencial preguleut as a zazer St engine faster to lari a performance unit, the six-cyfinder lump nevertheless gives the earlier DB7s a high level of performance, and is somewhat cheaper and easier to look after – a Jaguar specialist would know his way around one of these.

Problems that strike include cracked exhaust manifolds and engine mountings.

which can wear out quite easily—if there seems to be a lot of wibration from the front end, then this is a likely ease. The VI2 enjines can also suffer from this problem, as well as another shared six-cylinder foible of the throttle sticking shut at the throttle body, which, unfortunately, is buried away in a difficult area to access.

Listen for timing chain rattle - the tensioners can wear, and cause the engines to get very noisy. This will need to be resolved sooner rather has late, ortherwise the chain might still, with disastrous and expensive expensions for the engine. If chain rattle is expectally noticeable on start up, it's likely to be because the plastic backing has fallen off the resoloners, allowing the chain to nut the metal behind. Later can have a formation of the still resolved to the still res

balance, line result is vioration, and the result of that is that most owners will already have had these replaced anyway.

Whatever happens, don't use 'normal' anti-freeze in a V12 DB7. It uses synthetic OAT anti-freeze, and mixing the conventional stuff will cause a gel to form...which could lead to the radiator soliting.

eci		

Specification	п	
Car	Aston Martin DB7	Aston Martin DB7 Vantage
Year	1994-1999	1999-2004
Engine	3239cc 6-cyl DOHC	5935cc V12 QOHC
BHP	348bhp@5500rpm	420bhp@6000rpm
Top Speed	157mph	184mph
0-60mph	5.8secs	5.0 secs
Gearbox	Five-speed manual or	Six-speed manual or
	four-speed automatic	five-speed automatic
Consumption	22mpq	19mpq

Suspension All models: Front: Independent by double wishbones with anti-dive geometry, coil springs, monotube dampers and anti-roll bar. Rear: Independent by double wishbone incorporating longitudinal control sams, coil springs, monotube dampers, anti-roll bar

Parts prices

POTTS PTICES

All prices from Colleten Auton Mouth
From Wiley

1417.77

From Tookle pack, 6-cyl
Front brake gods, V12, pair
Front brake disc, V12, pair

Clutch Nic 6-cyl

Clutch Nic 6-cyl

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Complete enhant, V12

Endadou, 6-yl

Enda

The Ford-designed DB7 of 1994 revitalised Aston Martin and ended its reliance on the V8 engine it had been using for almost quarter of a century. An instant classic from its launch, RICHARD GUNN reviews the recently demised British supercar and considers buying one. If only he had the money!

Wheels

The alloy wheels are reinforced at their outer edges, where they're liable to come into contact with kerbs etc. Less thought was paid to their inner edges, and over time, these rims car



become distorted. Vibrations through the steering will hint at this, but don't confuse that with wheels out of balance.

It's advisable to check the tyre pressures. Certain alloys can allow air to escape, and these cars are very sensitive to correct pressures.

Interior

The hard-wearing and well-trimmed interiors should have stood up well to the test of time. after all, the oldest DB7 is a meet 1 years old. But check the leather and the wood, for putting right any imperfections will be pricy, although the veneer on these cas is kept to a minimum. Sun can cause the leather on the dash to shrink though. The plastic seat catches which allow the seat to tip aren't of the greatest quality, and consequently can be careful or the property of the present of the greatest quality, and consequently can be consequently can be careful or the present of the greatest quality.

aren to the greatest spainty, and consequency can break. Do check the air conditioning, and feel the carpest for leaks. It needs recharging regularly. The gaskets and seals can fail, especially if not used very often, which is often the case with D87. The biggest problem of all will be if the evaporator unit has given up the ghost... as that means practically the whole interior has to come out, and that's a job that takes at least a day. And then you need to put it all back in asalain.

Play with all the electrical bits and pieces. Electrical greenlins can strike, with the biggest culprit likely to be the electric windows, which seem good at going down but not always going back up again. The switchgear is Ford-derived, and therefore slights filmisef than one might be expect from a laxury sportscar although it is rather continuing the Aston Martin tradition of borrowing from lesser manufactures and so lines.

Very tall drivers may find the earlier DB7's easier to fit into than the later ones equipped with airbags. The front seats were changed when the inflatable safety features were added, and seemed to make things a little more compact inside. Try before you buy.



Bodywork/underneath

Rust in these cars is, in general, unlikely, and if you do come across it. it's probably more of a sign of badly repaired accident damage, which should make you way of what they out's oping or come across with the welfsick. Construction is by a steel underfarme with seel body panels, should be supported by the seel of the seel of the seel body panels, should be seen and seen proposition. On the first DBT, the bonnet was one and upon an ecompositic On the first DBT, the bonnet was given as the seel of the seel of the seel of the later models.

That said though, some corrosion has started to show up in the older cars, use, it may be an abton Marin. It may be only added or so old, but that doesn't make it immune. The jacking points, addiss arm mountings and front bulkinds are all spots which have proved somewhat prone to timeom. If there are problems with the bulkhead, you will probably find edidence of leaks another the bulkhead, you will probably find edidence of leaks and the bulkhead will possible probable with a displacement of the probable will bulk probable the displacement of the displacement of the probable will be about the probable of the displacement of the probable will be about the probable of the displacement of the probable will be about the probable of the probable will be about the probable that the probable will be about the probable will be

Something else you may notice are bubbles on the front wings... but these aren't corrosion, merely repair work that han't been carried out to a proper standard. Either live with them or replace the front wings. The same can happen with bonnets on the earlier composite, panelled examples.

Lilley to be of more concern than rust is accident damage. These are fast, powerful cars and fast, powerful cas sometimes outlier are fast, powerful cars, and fast, powerful cas sometimes outlier their diverse competence. Thus regained collision damage is not unusual. but how well has it been done off the chassis rails under the engine are kinked or the front subfirme is distorted, you'll get poor handling. However, they ware is another symptom of this and easier to check than getting undermeath and checking the chassis rails and subfirme, although these lands of the chassis rails and subfirme, although these should both the locked than

Volante hoods require scrutings, as the rear three quarters can wear. One of the problems comes from the hood iron, with have trabber covers on them. However, if these are lost, the resultant sharp edges can rub holes in the hood. New material can be put in. Dut it's till a specialist job if you want it done right. Do check that the hood cover hasn't vanished. as it keeps the headlining clean when the hood is folded.

Transmission

Six-cylinder cars have a Getrag five-speed manual or a GM fourspeed auto. The V12s add an extra ratio to this (with the manual made by Treme: and the auto by ZF). The option of steering wheel shift was available from 2000. And that's all you really need to know. For there are no major problems with any of the gearboxes, and if you do have trouble with the gears, it's best just to op and find another car.

Suspension

Aside from any collision damage – which will reflect in the sort of tricky handling unexpected of an Aston – something else to consider is that the suspension bushes are not known for their longevity, almost being items that need replacing at every service on hard-driven cars. Creaks and groans from undermeath will signal bushes past their bets, as well as flag up with a strong which also when the control of the control of

With no upper wishbones at the rear, the driveshaft joints take a lot of weight and can thus wear out within 10,000 miles.

General

These are specialist machines and don't respond well to not being caref for pooling. Thus a full service history is practically a must – and from a proper specialist on best of all, Works Service at Newport Pagnell. The factory recommendation is for a service every 7500 miles or every six months. Be wary of buying a car which is coming up to 15 a0000m tiles every 61 and 61 and

HISTORY

1987 At the Millé Miglia nee entrapectine. Victor Countlett chairman of Atton Martin, new unit Ford of Empey vice chairman Willen Hayes, Hayes, Hayes, In turn, meets with Heng Frodt I and suggests buying Aston Martin, Buying, a dold hat been threather of us, and in September Ford buys a majority share holding in Aston Martin, Buy Grot Branch Empey Hayes Hayes and September Aston Martin, Buy September Aston Martin, Bur Bearnes, and September Aston Martin. The manages becomes part of Ford's Permier Automother Groups, Closely followed by Jaguar son afterwards, something that is to be rather significant in the near future.

1988 Work starts on a new Aston Martin, under the name – for the moment – of DP1999.

1991 Victor Countels retires from Aston Martin, and is replaced by Walter Hayes, who is able to better command the ear of Ford management. He gets given a million pound development budget to create a prototype for the now-dubbed PMC project, using a lagget at US chassis and a superchanged 24-alwes 3.2 Here alloy twin-cam straightchases of VMD persetting VIM designer facilitation comes up with a find the counterpart of the counterpart of the counterpart of the decident is projected to the counterpart of the decident of the counterpart of the counterpart of the counterpart of the counterpart of the project of the counterpart of the counterpart of the counterpart of the counterpart of the content of the counterpart of the coun

1993 The 335bhp DB7 is unveiled at the Geneva Motor Show in March, to great aplomb for its looks and performance, plus the fact that it represents something completely new from Aston Martin. Even if it is somewhat Jaquar-flavoured...

1994 The Wykham Mill factory in Bloxham, Oxfordshire, which had previously built the Jaguar XJ220 supercar, is taken over to build the D87. Production gets underway in September.

1996 At the North American International Auto Show in Detroit, a convertible version of the DB7 is unveiled, named the Volante in traditional form.

1999 The D87 has been such a success that a Vantage version is unleashed, with a 6-litre V12 engine producing 420bhp. Originally intended to be sold alongside the six-cylinder D87, demand for the more powerful V12 version is so great that the original model is soon dropped. The Vantage coupe has a top speed of 184mph, but the convertible is limited to a less barnet-threatening 165mph.

2002 A: if the Vantage wasn't enough, the V12 GT comes out with a 435bh engine, mesh grille, bonnet vents, a boot spoiler, special alloys and other carbon fibre and aluminium touches. The GTA is the automatic version. Even more special is the Aston Martin D87 Vantage Zagato, built on a shortened chassis. Only 100 are built_one of which is for Aston Martin's own museum.

2003 A variation on the DB7 theme is the DB AR1, the AR standing for American Roadster. And it really is a roadster too, with no convertible top at all. Still, what do you expect for \$226,000?

2003 The DB7 line comes to an end after around 7000 have been built. Its replacement, from 2004, is the slightly illogically-named DB9, DB8 having been skipped over because it would have suggested an Aston Martin with only had eight cylinders...

Contacts

Clubs

Aston Martin Owners Club. Tel 01865 400400 or www.amoc.org Seciolists

Chiltern Aston Centre Ltd, Herts. Tel: 01442 833177 or www.db7centre.co.uk

 Aston Sales of Kensington, London. Tel: 020 7985 0111 or www.astonsaleskensington.co.uk

 Runnymede Motor Company, Bucks. Tel: 01753 644599 or www.runnymedemotor.company.com

 Aston Martin, County Durham. Tel: 01207 233525 or www.aston.co.uk
 Rikki Cann, Essex. Tel: 01702 291818 or www.rikkicann.com

How much?

Prices have fallen quales substantially for DR1, When the cas were new. TR1000 was the allowing size for just basic admission to the enclusive three prices are proposed to the prices of the prices

As for the Zagato models, if you can find one, then at least £100,000 is the likely loss to your wallet or bank account. And if you really want to splash out, then you can always go for the AR1...and pay quite a fair whack over the Zagato foure.

All of these may sound like expensive prices, but they're not really, Remember, these are Aston Martins. and nothing with that name on it is ever likely to come cheap. Prices may have a little way still to fall, but we don't reckon by too much now…and you'll always have to spend multiple grands to buy even the humblest and oldest example of the DBT.

Verdict

Whichever model you go for above all it's an Atono Martin. And that means a lot in the or useful. And in the real would And in the real value of the The IV's Variange is undoublefully the most desirable of the engine options, but you pay settle for the engine options and option and option and the real for the ents of them ents of them that option and option and the real for the ents of the ents of the end that cost a much to man as an Atono, little suitable pite and there can are the cost and the six is definitely a chapper proposition than the IV. I what so part to sharing some of its mechanical litens with Jaguar. And that six possible with the first time we've ever referred to Jaguar parts as inexpression. So in this context, they are.

So yes, while the Vantage will always be a more reventing or to drive, and that VI2 regime is glorously version and lusty, and sounds establishing when given its head, it site earlier six-cylinder cas well recommend for satural. They have nor than adequate performance, recommended for satural. They have nor than adequate performance, are now at the sort of prices where you can consider holying one as an alternative to something much more mundam. Once you've become hooked on being behind a long bonnet with the legendary Aston Matthodge up at the flority you can explose the rest of the manage at later badge up at the flority, our can explose the rest of the manage at later badge up at the flority, our can explose the rest of the manages at later badge up at the flority, our can explose the rest of the manages at later badge up at the flority, our can explose the rest of the manages at later badge and the flority, our can explose the rest of the manages at low.

Insurance quote

Based on a 1998 Aston Martin DB7, valued at £24,000

■ Fully comp, 29-year-old, unlimited amount of miles per annum, parked on a drive: £1616.40 with a £250 excess

drive: £1616.40 with a £250 excess

Fully comp, 50-year-old, less than 3000 miles per annum, parked in a garage: £616.80 with a £250 excess

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AUDI QUATTRO



Engine

You don't see many five-cylinder engines yet Audi made a real success of this layout and the distinctive warble – more noticeable on the 10v engines – is something you soon learn to love.

Three engines were fitted to the quattro – the 10 w WR, later 10 w MB and the 20 which crams four valves into each cylinder. Before you get stuck in however, get checking the service history. Buying a car with no history could prove costly in the long or even short-term so it pays to hold on for a well documented example.

Cambelts ideally need changing every 45,000 milles so you need to see recent evidence of this. If the vendor claims that they have changed it themselves or a non-Audi specialist has carried out the work, be wary. The front crank pulley needs 450Nm of torque when being tightened—any less and it may well work its way loose, destroying the engine in the process.

"Enhant manifolds are another issue" adds Roper Galini. "When you att the engine be very wary of a licking and which indicates a failure. Again, a recent bill for replacement should put your mind at east failure. Again, a recent bill for replacement should put your mind at east will will be a langer term solution and if the internals of the manifold fail, they'll be sucked into the turborburger adding concidenably to your new. When you go to note the cut make sure it is actually coal and that it hant's alway been started or you'll ring of the sort of the coal to the coal and that it hant's belong you re seen started to entire the coal to the coal

Avoiding funded engines is also wise – you really have to know what you are doing with these units and they don't respond well to anateurish attempts to release more horses. With 200hp and a 0-60 time of less than six seconds with the 20v engine, one wonders why neople aren't satisfied with the car in standard trim?

All quattros are turbo-charged, intercooled and fuel-injected. The turbocharger is water-cooled on the MB and 20v engined cars and as such, has a much longer

life – being good for over 250,000 miles as long as t

250,000 miles as long as the engine hasn't been thrashed continuously. Conversely, a Wit turbocharger with air-cooling may only last 70,000 miles. It will last longer if the car has been allowed to cool down before being turned off. With any engine, blue exhaust smoke suggests something amiss and willel it could be the twithocharger, there is a chance that it could be the valve uides.

The engine itself is robust and long-lived although the slanting of the engine can lead to the bores going oval which will eventually lead to a loss of compression and the need for an engine rebuild – and a bill for more than £5000.

The oil cooler pipes can corrode. Failure of these will lead to a sudden loss of oil and more big bills. Check their condition, especially around the fermiles.

Injectors should last 80,000 miles easily. Symptoms of failure are the need to crank the engine for a long time before it catches, especially from cold. On that front, you shouldn't need to touch the throttle when

starting one of these engines. They should just start as soon as you turn the key

5.9secs

18-25mpq

Parts prices

Priora se country of Quatro Comer, Birmingham Brake discs front, 260 Brake publis front 260 Brake publis front 260 Brake publis front 2100 Clutch Mt. 2100 Clutch Mt. 2100 Clutch Mt. 2100 Brake publis front 2100 Brake publi

scopic aren e so	doned with the cur in oldne	Julio Cimin.	one mey.
pecificati	on		
ar	Audi quattro WR	Audi quattro MB	Audi quattro 20v
ear	1980-1987	1987-1989	1989-1991
ingine	2144cc 5-cyl OHC	2226cc 5-cyl OHC	2226cc 5-cyl DOHC
HP/RPM	200@5500rpm	200@5500rpm	220bhp@5900rpm
orque/RPM	210lb/ft@3500rpm	199lb/ft@3000rpm	228lb/ft@1950rpm
op Speed	137mph	137mph	142mph

6.7secs

23-30mpg

Gearbox All models: 5-speed manual

Suspension All models: Independent by wishbones and MacPherson struts,
front and rear

14 CCW BUYER'S GUIDE

7.1secs

22-28mpg

0-60mph

Consumption

The quattro was the car that changed the face of sportscars and rallying forever. Success in the competition world was translated into success in the commercial world, and the original quattro enjoyed an 11-year production run. However, these cars can seem fiendishly complicated for the home mechanic so IAN SEABROOK gives you the

lowdown on this ground-breaking coupé. Roger Galvin of the Quattro Workshop is our on-hand expert

Bodywork

First of all, let's dispel a myth - quattros were never fully galvanised and even the panels that were coated were not always consistent between vehicles. You really do need to check a potential purchase out for rot as they are depressingly able to corrode - although factory rust-proofing went a long way to combating it.

A quick walk around the vehicle can say a lot for its condition. Front wings rot all too easily above the front bumper and at their base although rot along their top edge within the engine bay is harder to spot. On early cars, the base of the bootlid may corrode and when you open it, you may find rust around where the hinges attach to the body. Audi, in its wisdom, attached the hinges before the cars were painted, so there is bare metal behind the hinge! Incidentally, from the 1987 model year onwards, the bootlid was glassfibre.

The door bottoms can corrode and it is a good idea to have a look around the sunroof. This is a tilt or remove item in steel. Drains for this run down the windscreen surround. Lift the lower edge, and skim along it with your nail. Can you feel any bubbling? It could suggest hidden horrors and even worse, can allow water to leak onto the ECU.

Moving underneath, first of all, check the crossmembers and chassis rails. They don't usually rot but foolish chimps may have tried to jack the car up on these - which needless to say, is not a good

The back edge of the floor can rot - although the main floorpans don't tend to suffer. Do check the boot floor however, especially around the rear towing eve and definitely before you put any load on this eye! Rear arches are susceptible but were rolled on later cars which offers better protection. This was done to allow larger wheels to be fitted.

In terms of parts availability, Audi seem to have little regard for its heritage - despite what the marketing men may say. Some parts are now hard, or next to impossible, to locate. In terms of bodywork, checking the following makes sense or you'll be searching for parts for a long time. Black rear light lenses are no longer available while headlamps are tricky and the rear bumper beam and bonnets simply unavailable. Front wings have been remade but Audi threw out the original moulds and the newer ones don't fit that well. Don't necessarily write off a car with iffy panel gaps as being accident damaged - it may just be that the replacement front wings didn't go on that well. However, these cars are powerful and people may get carried away - thinking that four-wheel-drive makes it impossible to skid off the road. The flanks and inner front wings should be checked for accident damage.

One last Audi trait is for failed door handles. "The casting in them breaks with time and replacement is the only option," advises Roger Galvin. "It is relatively easy to swap lock barrels so if the car comes with several keys, someone has been lazy."

Interior and **Electrics**

idea.

The earliest cars came with a lurid zebra-striped interior which isn't for the faint-hearted, All interiors can show sings of wear and tear. "Seat



bolsters tend to suffer with age and the only option is to strip the seat down and replace the innards - usually by finding a suitable Audi in a scrapyard and salvaging the components from the less-used passenger seat," suggests Roger. Leather seats (optional) can suffer if not looked after and replacing with a complete cloth interior will be cheaper than re-trimming the seats.

The electronic dashboard fitted from 1984 needs to be checked to make sure that everything is working. "It is essential that you never attempt to jump-start a quattro as the power surge when connecting up can blow every single capacitor in the dashboard," advises Roger, You'll be looking to spend at least £250 to replace them all. The only option if the battery does go flat is to remove it and charge it away from the vehicle.

WR-engined cars even get a voice synthesizer although this tends to not work if an after-market stereo has been fitted - commonplace now as the tape decks wear out eventually.

The electric window mechanism is no longer available and it can give trouble. The relays break which then causes the motor to over-wind the window, breaking the securing lugs. Replacement of the entire mechanism is the only option which'll mean another scrapyard visit. Make sure you check that they operate properly.

The heater controls, as with many Audis of this vintage, can go slack and stop working properly. In addition, the heater tap can seize, making warm days even toastier as you can't turn the heater off. Replacement of the cables is not much fun.

Finally, the electric aerial can fail and you won't be able to find a new one.

Transmission

The 016 gearbox is a robust box of cogs although it has a typically Audi notchy gearchange - which can often be improved by adjustment of the linkage. Second gear synchromesh is often the first to go, so check it on the test drive.

The clutch can get some hammer as this certainly isn't a car which can spin away its power on a hard start. Still, they are often good for 150,000 miles although if it has been replaced recently, enquire as to the make as the proper Sachs one is the only one to fit. At around £170, it is more than reasonably priced for a car of this

performance MB and 20v quattros have a Torsen (Torque Sensing) centre differential which automatically sends power to the end of the car with most grip. The worm drives in this unit can be a little noisy but this isn't a serious problem. "All quattros have the ability to lock the centre and rear differential but in reality, there are few situations where this is required and the mechanisms often seize." explains Roger Galvin. A rattle under heavy acceleration suggests that the propshaft carrier bearing is in need of renewal whereas a bang on a quick pull-away is probably the rear differential knocking on the floor as the mountings fail with time. It is an easy job to replace them so don't fear the worst

Rear differentials can seep a little but any oil drips signify that work is needed. Wheel bearings last around 80,000 miles and should be replaced in axle pairs

Brakes

The quatro attracted criticism for its orth, progressive brake potal when new – a fact rytom the overservoir objectmed fixed to cast these days. At the heart of the system is an accumulator sphere, as found on any hydrautic Critices. It is a pool deas to check that this isn't in need of replacement if there is nothing to support that it is has been replaced in the service history. On oth, sun the energies for a short while and then turn it off. Now, press the brake pedal until rigoes hand. A new sphere should manage around 30 pumps, tent that not in one good mere wish less in fine means that you complete brake failure on the move gener closurest to complete the

ABS was fitted from December 1983 (therefore on most British cars) although it automatically turn itself off when the diffs are locked – the ABS (light should illuminate when this happers. After the test drive, jump out of the car and immediately check each wheel for temperature. The master cylinder return spring can fail with the result that the brakes first bind and eventually can seize

on. A hard pedal also suggests something amiss.
Finally on brakes, the handbrake mechanism can seize up which
you'll soon learn about if you park on a hill! Reconditioned calipers
at the back are around 580 per side.

HISTORY

1977 Volkswagen is in the process of developing the littis, released the following year. This military vehicle features a longitudinal engine and four-wheel-drive. An Audi 80 prototype appears with the same running gear and soon proves its ability in secret test sessions.

1979 Hannu Mikkola has a test drive in a prototype quattro and is willing to drive the car in rallying as he is certain that it would be a

1980 The Audi quattro makes its first public appearance at the Geneva Motor Show. Audi announces that it will only make 400, which is more than enough to ensure homologation for rallying. However, the demand takes it by surprise, and it resolves to build more.

1981 Sales commence in the UK, albeit in lefthand-drive form at first. However, once more, demand exceeds expectation and in November 1982, Audi announces that a righthand-drive version is on its way. 1983 RHD sales begin and the cars feature new single-piece.

1983 RHD sales begin and the cars feature new single-piece headlamps.

1984 ABS becomes a standard fitment the following year, in addition to a digital dashboard. The wiper sweep pattern is finally changed for RHD cars and the 'zebra stripe' interior trim is replaced with a more tasteful checked pattern.

1987 Towards the end of the year, the M8 engine is fitted. This is larger and has a higher compression ratio allied to a smaller turbocharger making it less laggy and more responsive, although the overall power levels remain unchanged. There are also revisions to the digital dash and a surroof became standard fitment, as does a Torsen centre differential.

1989 The 20v is unleashed with power now up to 220bhp and a vast improvement in torque delivery. The revised engine has Bosch Motronic fuel injection and a catalytic converter is fitted.

1991 Production of the

new 52 coupé commences in 1990 but the ur-quattro lives on until mid-1991. The new car rather lacks the character of its predecessor however.



Suspension and Steering

You'll find MacPheron strusts at each corner of a quattro and they rarely give much in the way of rouble. Wom wishbone bushes will make themselves known through wayward handling although it cannot be stressed enough that wheel alignment is absolutely critical to making these can "Fel" as they should and specialist attention is recommended, especially as camber and specialist attention is recommended, especially as camber and is just a finor one turned through 180 degrees, with a couple of carrier brackets for the differential weeld on.

The rack and pinion, power-assisted steering rarely gives problems although tie-rod ends may need replacing at 100,000 mile intervals.

Contacts

Clubs

 Quattro Owners Club.Tel: 01886 880777 or www.quattroownersclub.com

Specialists

- Quattro Workshop (servicing and repairs), Leics. Tel: 01455 208037
- or www.thequattroworkshop.co.uk

 AM Cars (servicing and repairs), Somerset. Tel: 01460 55001 or
- www.amcarsquattro.co.uk
 Quattro Corner (parts), Birmingham. Tel: 0121 476 0034 or www.quattrocorner.com

How much?

The priciest propositions are the very earliest cars—as is often the case—and the end of the line 20x. Prices could reach £20,000 for the very best, low mileage examples of each. The middle cars have the lowest values—although you are still looking at paying over £8000 for good examples of each, with minters topping £10,000. The MB-engined example seen here is for sale at £10,000 which represents top money

for quatros of this era. Contact Roger Galvin for further details. Even complete wrecks rarely descend below £1000 although restoration costs can be prohibitively expensive so well have to recommend that saving up for a good one is the way to go. A few grand might get you a runner with MoT but you could easily end up spending much more to keep the thing roadworthy. These are not cars that respond well to a lack of care and attention.

Verdict

Divining a quatton is an addictive experience. The boundiful power, periential gips and five-ginden wastel give you an encounter that few cars can match. Size, Inside is about as exciting as German interiors every et-- which in the very - and they are not the chapset can to run - but they do deliver supercar performance with everyday practically and reliability. Pare as excerably gettery last to find as the can lead of inside the present of the control of the control of the control of terms are not yet being made. But the dedicated owners club will certainly help make guatto ownership as applied as possible.

Early cars are getting rare now and are starting to attract a premium so the pick of the litter for us are the MB-engined cars which offer plenty of go, lots of practicality, surprisingly good economy and a more alfordable price. The 20v quattros offer the most power but on our crowded reads, the MB offers more than enough for most.

Insurance auote

For a 1989 Audi Quattro 20v valued at £10,000,

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limit, club member, kept in a garage.

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AUSTIN-HEALEY 3000

As classic traditional British sportscars go, they don't come much more highly regarded than the Austin-Healey 3000. RICHARD GUNN looks at buying the best of the Healey bruisers.

Parts prices

All parts from AH Spares - see www.ahspares.co.uk
Brake master cylinder, from 142,50
Brake shoes, front, exchange
6, 137,30
Clutch plate, from 1437,50
Clutch plate, from 1447,50
Eshaust, complete, mild steel, from 188,50
Eshaust, complete, from 168,50
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Enhaust complete, stainless steel, from £168.50 Front Wing, steel, £417.50 Front wing, steel, £475.00 Hood, £195.00 Shock absorber, recon, £55.00 Olj pump, £174.50 Tuel pump, £725.00 Timing chain, £8.25 Timing chain tensiones.

Engines

Transmission

Don't look for synchromesh on first and reverse. You won't find it, it was never there. It may also be starting to disappear around second on well-used examples too. First can get tricky to engage too – probably best found by going via second examples to sual on most cars, but shouldn't be over the top! Overthrie was a standard firment, and should engage on third and fourth gears. Check that it goes in and out smoothly, but we will be supported to the control of the

Oil leaks from the back axle are pretty common, but if the black stuff gets on the rear brakes, it won't do them any good whatsoever, and you won't appreciate the car's much reduced stopping potential either. Obviously, it's better to buy a car that isn't leaking from here, but if you do find one that is, keep in mind that it isn't that difficult to channe the seath. The engine is hardly hi-tech. It's just a good, old-fashioned lump of British six-cylinder iron from the Fifties, and therefore inherently robust and capable of reaching 200,000 miles without too many problems, assuming a modicum of care and attention. They do like to drink or leak oil though, so this should have been kept topped up throughout the car's life...and will need to continue to be so. Look for 50psi on a warm engine while cruising, expect it to drop to around 10 to 15psi at idle. If the engine meets these criteria, then it's probably pretty sound. More of an issue than oil is likely to be overheating - after all. these are big engines, and 40 odd years of water pumping around their insides are likely to lead to some silting up and less than efficient radiators. Dodgy ignition timing also leads to the cars running hotter than they should. Worst case scenario is that the pistons can melt. Many wise owners will have fitted electric fans, but this might be an excuse to try and cover up overheating problems. Make sure any electric fan doesn't stay on the whole time - under usual circumstances, a 3000 shouldn't run too warm. Ah, those triple carburettors on the Mk2. They really are very tricky to set up properly, so if the car you're looking at is one of these and it's not running very well, suspect these before anything else

Specification Austin-Healey 3000 Mk1 Austin-Healey 3000 Mk2 Austin-Healey 3000 Mk3 1959-1961 1961-1964 9164-1968 Year All models: 2912cc six-cylinder OHV **Engine size** RHP/RPM 12484600 13084750 148@5250 Top speed 116mph 120mph 122mph 0-60mph 11.4secs 10.4secs 9.8secs Gearbox All models: Four-speed manual with overdrive Consumption 20mna 17.1mpg 20.3mpg All models: Front: Independent by coil springs, wishbones, anti-roll bar and lever-arm dampers. Rear: Live (beam) axle Suspension

by half elliptical springs, Panhard rod and lever arm dampers, Mk3s had twin radius arms instead of Panhard rod.

General

Almost 90 percent of Austin-Healeya – the majority of them 300s – went over to the States, Many of them have since been repatriated, but that doesn't mean they've all come from the dry states over there. Much of America can be as wet – if not wetter – than Pitzian, so rust can still be an issue. Something else to take into consideration is if the can sho been converted to righthand-drive, and if so, how well has it been carried out?

Brakes and wheels

Best of the breed when it comes to stopping are the Mk3s – not only do they have front discs, but there's a servo as well. This was only an option on Mk2s, and not available at all on Mk1 versions. Obviously, it's a desirable thing to have.

Oil from the rear aske will affect the back brakes – as mentioned earlier – if allowed to spray on them while the car is in motion. And that's about the worst malady that can affect a 3000's brakes, apart from sticky calipers on cars that don't get used very much. Wire wheels are found on most Healevs these days, even

though they weren't standard. They should be painted, not chromed – the latter treatment makes them heavier and affects handling. Clonks from the wheels – especially when reversing – signal a worn spline. You should also look for these visually too. Test the spinners for integrity too – sometimes, overconscientious owners don't always do them up properly because

Chassis

they don't want to spoil the chrome!

Accident damage is always a possibility with these cars...and there's a good way of checking. Underneath are the two main box section rails, which run the length of the car, and should be straight. If they're bent or wavy, then it suggests that there's been a crunch in the past, something that may be backed up by the car pulling to one side.

These main rails can also rust, as can their outriggers. The place to check most of all is underneath the sills, as with any old car.

There are other places that need to be checked too, while you're down there. The builkhead and floorpan are welded to the chassis and both can get attacked by corrosion because of the car's convertible nature. When it gets caught in a shower without time to put its roof up, water gets inside and care scales, so starts to work its corrosive horrors on what is around excape. So starts to work its corrosive horrors on what is around

it. Have a look from both inside and underneath.

Those usual suspects of the rear spring hangers should also

be investigated — look for signs of not in their mountings. You'll probably need to jack the aru pto get the best view of these areas, and while the jacks are out, there's another thing you should scrutinise. With the car up at the reas, look at the door gaps. They shouldn't have closed up any more than when the car was resting on its wheek. If they have, then the 3000 has lost some of its structural integrity and the chassis strength has been compromised. You can eat a whole new chassis. Just it

will be expensive!

Look at the exhaust. It's oh so easily whacked, especially during these modern days of speed humps and poor road maintenance. It's not just the obvious signsy ous should look for, such as scraped metal or holes, but investigate the mountings for damage and listen for blowing. There was better clearance on the MS cars, but even so, these cars are still low to the ground and can suffer. Listen for blowing as well –assuming

you can hear over the natural timbre of a Big Healey.

Interior

As well as checking that floorpan from inside, just check the condition of the trim, and how much of it is still there, although you can get practically everything new. However, interiors were fairly Spartan, even on Mk3s with their wood veneer. Leather was confined to just the seat facings – but it will still cost a fair bit to put right if it's shouldy.

Don't forget to see if there's a heater – it was only an option on these cars, and may not have been fitted on those vehicles bound for the warm parts of the USA.



Bodywork

First things first, stand back from the car to see if it looks right. There's a swooging and curvaceous swage line that runs the whole length of the car, and should line up all the way along. If it doesn't – and you'll really notice it on a two-tone car, especially around the doors – then you need to ask why! it could be acident damage or a previous restoration that perhaps wasn't done very well. Either way – saft the vendor about it.

It's unlikely you'll find a 3000 that hasn't had some sort of restoration work done – unless it's just come back from California. The unfortunate fact about these Healeys is that practically anywhere in the bottom nine inches of bodywork is liable to timworm. Just look everywhere.

Bust obviously is a prime problem area, but you can't really see the condition of the inner ones unless you unstick the carpets. Which a seller might not be too keen on, obviously. Best thing in such circumstances is to try and feel through the material for any crinkliness. A and B-posts are vulnerable too.

The front shroud – around the gille and the bonnet - is aluminium. Which means it worth rust, but it can suffer from electrolytic action where its meets the steel of the front wings. And, because of its construction, it is also prone to dents, and can even get hurt just by belief planed on when people are looking in the engine buy. Filler is often the charge polition; so look out for it. The back one is also prone to the same problems, althrough consulting the plane is the proper to the same problems, althrough the same problems the sa

Both the front and rear wings corrode as a result of road muck – within the usual nine inch area particularly - but at least they can be unbolted if they need to be replaced.

Rust in the boot floor might not just mean that this alone is affected. It could also mean that the fuel tank is also affected too. Last but not least, look at the rear bumper. It can corrode easily thanks to the exhaust coming out underneath it.

PRICE GUIDI	- 4031	III III III	1000				
	YEARS	MECHANICAL	9001	c	1	2	3
Auctin-Hosley (2000 MK)	1959-1961	****	****	£25,000	£19,000	£13,000	65,000
Austin-Healey 3000 MG2	1961-1964	*****	*****	£28,000	£23,000	£15,000	68,500
Austin-Hosley 3000 MG3	1964-1968	*****	*****	£31,000	£25,000	£16,500	13,000

Suspension

Everything is Austin underneath, so easily available and not exactly complicated. You can check for wear in the kingpins – which you might spot anyway if the steering wanders a bit – by jacking the front of the car up and seeing if the wheels can be rocked from top to bottom. If there significant play, then there need redoing – and then remember to keep significant play, then there need redoing – and then remember to keep significant play, then there need redoing – and then remember to keep significant play.

them peased to prolong their life a bit more. On the final MIZ car, the midsul sums regislound the Perhadron of of the earlier models. The bushes on this will start to road if they're soon not white the car in moring between, all the bushes on the register of by tougher untraher cores - so this is actually capite a good encus to do so! Many 2000, at a bit on the next country of the drogs, fish of them will sta a bit fully, thanks to new core that haven't settled yet. The yell will in time, but you find a has kit-heigh that sits squared abound them bound lever arm dampers cocasionally level and front damper mountings can also wont toose too on me used out can be a some of the sound of the countral pro-

HISTORY

and affixed to the show car.

1898 Cornwall is the location for the birth of Donald Healey, a man who will go on to become one of the most important and influential names in the sportscar world.

1952 With a number of low volume 'specialist' cars under his belt, Donald Healey pops up at the London Motor Show with his new four-cylinder 100 Roadster to reveal. Most of those who see it are impressed, particularly Leonard Lord of the British Motor Corporation, who immediately strikes a deal with Healey for BMC to build the car. Before the end of the event, Austin-Healey badges have been created to the strike of the sevent, Austin-Healey badges have been created to the strike of the sevent. Austin-Healey badges have been created to the strike of the sevent. Austin-Healey badges have been created to the strike of the sevent. Austin-Healey badges have been created to the strike of t

1956 The 100 becomes a six-cylinder car, thanks to the fitment of a BMC C-series engine as previously modelled by the Austin Westminster and Wolselev 6/90.

1959 The Big Healey' becomes reality, when the 3000 is created by enlarging the engine from 2693cc to 2912cc, although this only results in around an eight horsepower increase. Disc brakes make an appearance at the from but apart from these non-comsettic tweaks, changes to the overall look of the Austin-Healey when are few and far

1961 A Mi2 version of the 3000 is born, but is regarded by most as an evolutionary less buckwark. These 20 carburettors are fitted file homologistion purposes, but manage to add a grant obtail of only the bits to the eventual power of the Mich. However, because the whole thing is more complex, the cars often go out of tune and are much less reliable. Fine, they ultimately prove solver in use and get through more fuel. The cars can be destinguished by their vertically shatter glime and borners toogs, a spopped to hostionatal over so the pervisors and borners toogs, a spopped for hostionatal over so the previsors and borners toogs, a spopped for hostionatal over so the pervisors.

1962 The front and rear of the car get left alone, but the centre gets a revamp, with a curved windscreen, wind up windows (practically heresys) and a more effective hood. Previously known as a tower, the car is now known as a convertible... nor that there's any real difference. However, one thing that Austin-Healing enthusiasts do appreciate is that the triple carb system gets the push, replaced instead by more robust twin 50½.

1964 The Mk3 is the final genesis of the 3000, and by far the most civilised of all the Big Healeys. There's a new dashboard – in wood – plus improved suspension, better ground clearance and a bit more power thanks to twin choke carburettors and a new camshaft.

1967 In the BMC battle between the old Austin-Healey and the new MGC, it's the Healey that loses and the MGC is chosen as the Corporation's six-cylinder sportscar flagship. However, it never manages to provoke anything like the affection the outgoing Healey did.

1968 A final Austin-Healey 3000 is built at Abingdon in March. In total, production stands at 42,926 for all three variations.

Contacts

Clubs Austin-Healey Club. tel 0116 254 4111 or www.austin-healey-club.com

- Specialists: Just a few of the many, For more, see: www.austin-healey-club.com
- AH Spares, Warwickshire. Tel: 01926 817181 or www.ahspares.co.uk ■ Bell Classics. Bedfordshire. Tel: 01582 488370 or www.bellclassics.co.uk
- Murray Scott Nelson, North Yorkshire. Tel: 01723 361227 or
- Orchard Restorations, East Sussex. Tel: 01435-812374 or www.orchardrestorations.co.uk
- www.orchardrestorations.co.uk
 North Street Garage, Somerset. Tel: 01984 624140 or www.
- northstreetgarage.co.uk

 Classic Touring, Kent. Tel: 01892 891505 or www.classic-touring.co.uk
- Rawles Engineering, Hants. Tel: 01420 23212 or www. austinhealeyspecialists.co.uk
- Enigma Restorations, Lancs. Tel: 01706 817468 ■ Dennis Welch Motorsport. Staffs. Tel: 01543 472214or www.bighealev.co.uk
- JME Healeys, Warks. Tel: 01926 425038 or www.jmehealeys.co.uk

 Trevor Hirst Restoration. Dorset. Tel: 01425 614177 or www.trevorhirst.co.uk
- Irevor Hirst Restoration, Dorset, Iet: 01425-614177 or www.trevormirst.co.uk ■ SC Parts Group, West Sussex, Tel: 01293-547841 or www.scparts.co.uk

Market Trends

You're never, ever going to find an Austin-Healey 3000 going cheap. Whatever the make or condition, these are among the top fillip not Cassic. British sportscars, and prices are fantastically high for what, let's not best around the bush here, is quite a basic roadster with the engine of a BMC, saloon, Such a statement sint stallary into consideration the sheer charisma and personality of the cars of course – that's what costs all the cash!

For a MM. 21th emost desirable of the breed in excellent order bought from a dealer, you are booking at upwards of \$3,000 these days. The MM is are the cheapest of the bunch, but even they be up to dose on \$2,000. Think you can see some money by getting a basistence! Think againt even a very rough, barely naming MM. Will set you back £6000, and will probably expense a fail and very expensive restorator to before could go as a faily decreat MM. Cert that kind of money, and to have be can that was mant to successful the MM. The MM is a seen of the MM. The can that was mant to successful the MM. The MM is a very law.

These classics are one of the few historic cars that can genuinely be regarded as investments – of a sort. Look after your cat keep on top of the maintenance and all the other extra jobs, and you certainly won't lose any money when the time comes to part with it. In fact, you may even make some...

Verdic

You don't need us to sing the praises of an Austin-Healey 3000 to you. Thousands of enthusiasts have done it before, and probably far more eloquently than we can. It is one of the all-time British greats, loved and lusted after all over the world.

The best one to go for is undoubtedly the MiS version – which is why here yout more than all the others. It's go the most power, the most finesse – okay, not too much more of it, but it is there – and is generally a bit easier to live with. Nor that these can should be simple ownership oppositions – fams wouldn't truly appreciate them if they were that easy – but the good times generally outweigh the bad to a very large extent with one of these ultimate Healeys.

Insurance quote

For a £25,000 Austin-Healey 3000 Mk3, based in Peterborough

Fully comp, £100 excess:£362.25 for a 29-year old, two years' NCB, clean licence,

10,000 miles, only car, kept on driveway, club member

■ Fully comp, £100 excess: £97.65 for a 50-year old, full NCB, clean licence, 3000
miles, second car, garaged, club member

Quotes from Firebond (0870 111 0464 or www.firebond.co.uk)

AUSTIN-HEALEY FROGEYE SPRITE



. a p	
All parts from Austin-	Healey Spares
Floor pan	£79.31 per side
Front inner wing	£79.90
Spring hanger box	£ 37.01
A-post inner pillar	£ 21.74
B-post	£12.04
Bonnet assembly, stee	el £2261.88
Front brake shoes	£16.22
Rear brake shoes	£22.91
Radiator (new)	£163.91
Clutch plate	£34.66
Stainless steel exhaus	t £105.16

please ask

Gearbox

Consumption

Suspension

If there's mayo on the oil filler cap, only joking, but how many times have you heard that before? In case you haven't, the Sprite that you are looking at will need a new head gasket - pronto. A-series engines are also prone to bleeding some oil

Gordon Elwell, of Frogeve specialist, Classic Revival, informs us that the original scroll-type rear crank seal will always leak, but is most effective. The problem is mainly because the aftermarket lip type seal tends to be oil tight, but when they let go, the oil is emptied in an

The trick is to fit the scroll type true, at a constant distance and as close to the crankshaft as possible. Classic Revival uses a home-made steel shim that works much like a feeler gauge. This will offer the best solution - basically, it's better to have a miniscule oil leak that won't burst its banks, than an aftermarket seal that could vacate the engine of its bodily fluids in a blink.

If the rubber seals that live under steel 'top hats' on the rocker cover bolts look the worse for wear, then the remnants could be floating around the rocker gear. This is down to poor quality rubber and. because of this, they should be replaced at set intervals.

Originally, the Frogeye was equipped with brass-topped 11/8in carbs, which are a pain to set up and take a lot longer to tune. So don't go into cardiac arrest if the one you are looking at is fitted with the black plastic topped 11/4 carbs sourced from a later Sprite or Midget. Although not in keeping, they are easier to maintain and setup.

The same goes for the Simplex (single) timing chains which are noisy and tend to slacken off. Although it won't be visible when glancing at the engine, if the owner informs you of a changeover to the Duplex timing gear, don't fret. The Duplex setup is less noisy, more durable, and won't slacken off as quickly as the Simplex chain. Classic Revival goes for this option every time, unless a customer specifies otherwise.

All models: 4-speed manual

radius arms, lever arm shock absorbers

34mpa

Interior trim and electrics



windows are of the clip-on variety - simplicity at its best

Originally, rubber flooring was supplied by Austin-Healey, but this is hard to come by as many were converted to carpet at a later stage. If this is shot, a new carpet set will cost a fraction under £90.00, or £135.00 for the more luxurious Hessian-backed option. Don't expect to find the original two-spoke steering wheel either, A Mota-Lita, Mountney or period wood-rimmed one could be nestling there, which isn't a bad thing, but if you are a purist, then the

original versions aren't too hard to get hold of. Incredibly simple cars tend to come with incredibly simple electrics, and the Frogeye has exactly that. For example, if a headlight doesn't work, the trouble shooting will consist of changing the bulb, and if that fails, the bullet connector will probably be corroded

The fuel gauge can be temperamental - the sender sticks and gives a false reading. This is usually down to a Frogeye that hasn't been used regularly. And if the garage gets damp, the feed from the sender to the gauge will deteriorate.

If you suspect the dynamo has gone, the most probable cause is the control box, which can get damp and the contacts corrode. Examine and replace if necessary before shelling out for a dynamo.

Wiring diagrams don't boggle the mind either. Fully colour-coded looms are still available, making installation simple.

Specificatio	n			
Car	Sprite	Sprite hardtop	Sebring Sprite	Sprite Supercharged
Year	1958	1959	1960	1960
Engine size	948cc 4-cyl OHV	948cc 4-cyl OHV	948cc 4-cyl OHV	948cc 4-cyl OHV supercharged
BHP/RPM	50bhp@5500rpm	42.5bhp@5500rpm	55bhp@5800rpm	68bhp@5700rpm
Top speed	81mph	86mph	87.4mph	90mph
0-60mph	20.9 secs	23.7 secs	14.2 secs	15 3 secs

All models: Front: Independent by wishbones, coil springs, lever arm shock absorbers, Rear: Live axle, quarter-elliptic springs

40.3mpa

CCW BUYER'S GUIDE 21

The Frogeye Sprite offers a quirky alternative to the Midget and ADAM TAIT is here to tell you how to bag a peach. Expert help comes from Frogeye guru and owner of Classic Revival, Gordon Elwell

Suspension and brakes

Drum brakes are more than adequate for a Frogeye in standard form. For road use they are faultless, so long as they have been properly maintained and adjusted. A Frogeye running a 1275cc engine should have been fitted with disc brakes: if it hasn't, then tell loved ones how much you think of them before oning out on anoal test.

Ask the vendor what brake shoes have been fitted. Reproduction items tend to employ friction material that would be better suited to brake pads, or hardened impact sockets and, as a result, certain sets have been known to have covered 5000 miles without even harding in.

If a mound of spares is thrown in with the sale, have a quick rummage to see if there's any NOS (new old stock, not nitrous oxide) Ferodo or Mintex shoes. These will have a Frogeye stopping like Road Runner.

In the suspension department, Frogeyes run on lever-arm dampers and leaf springs. If it has a monster truck-esque ride height then ask if it has been treated to a replacement set of springs. As with the brakes, these reproductions aren't of great quality and the increase in height is due to an inaccurate length/height of spring at the front and rear respectively.

Give yourself a pat on the back if you find a set at an autojumble because they are rare to stumble upon.

If the original springs are included in the sale, then refit these (so long as they aren't deformed) because the manufacture items are very durable.

The lever-arm dampers are prone to leaking and serve up a dire ride, so give each corner the infamous bounce test. Some reconditioned dampers have been given a makeover so many times that it has been known for them to leak as soon as the car is lowered

that it has been known for them to leak as soon as the car is lowered on to the floor. If the prospective buy needs a new set, and they are original, then try and get that specific set refurbished.

When the Frogeye was being churned out in the fifties and earlyStrites, there was also an export batch. Cars that were destined for

Africa were offered with heavy-duty rear leaf springs in order to stand up to the poor quality roads.

Today, standard leafs are hard to come by, and it's only the heavyduty ones that are being reproduced. Over the years, these remakes have increased in size with thicker gauge metal, so it's not unheard of

for the top of the tyre to be ski inches away from the airch. The same rules apply with the rear leaf springs as it does with the coils at the front. So long as they aren't bulged and distorted, treat the originals to a vine brush and a coat of paint. The U-bolts that to locate the leafs may have been on there for half a century, an impact wench won't brush them, will take the work of a huge breaker bar and a hardened socket to loose in the rules or other them.

Another area of concern is the front switelfkingpins. There are three grease nipples per side, and if they haven't received regular attention, it could lead to an MoT failure. There will be play evident when the car is jacked up. Simply rock the tyre from top to bottom, excessive play could indicate neglect.



Gearbox

Shared with the humble A35, original Frogeyes will be fitted with a gearbox that has a smooth casing. Being three-synchro, a clumps owner of the past may have tried selecting first without double declutching. If this was regular practice then expect the gearbox to sing. Jumping out of gear on the test drive will also indicate that it's rebuild time.

If you see a reconditioned smooth-cased 'box for sale, don't take too much notice because new internals aren't available, so all that can be replaced are the gaskets and bearings.

The later ribbed version is a common conversion because it is marginally stronger and parts are still available. For the purists out there not wanting to ruin an authentic appearance, Classic Revival can give you the best of both worlds, by machining the original smooth casing to accept the ribbed internals. Halfshafts will cope just fine with anything up to about

90bhp, so long as you don't dump the clutch at any given opportunity. For anything beyond that, plump for either 1275 versions or beefed-up competition items.

Bodywork

Like just about every other classic British car, time is a harsh companion and our interesting climate spurs on corrosion. Although oil leaks are an inconvenience, they do actually help

protect the underside in the engine and gearbox vicinity. The usual sills and A-posts are prone, so check the gap on these and the door. Should it be confined at the top, you could be looking at a sagged shell, or for those who talk technical lingo, a shagged shell. This is bad news, so either prepare to

dig deep or turn around and walk in the opposite direction.
"We try and repair what we can, rather than tear out the
existing panels. Original panels are the correct shape and the

reproduction items aren't always a great fit, says Gordon. Another shocker is the bonnet on a Frogeye, because it incorporates the front wing and valance – both Items that timoorm loves. In case you haven't already collapsed and knocked yourself out on the corner of the worktop because of some of the other things we've mentioned, a steel Frogeye bonnet won't quie you much change from two thousand

pounds.

The fun still isn't over; weighing in at around 35kg (bare), trying to manneuvre and then align the panel gaps is difficult to master. There is adjustment on the hinges and some give on the wings, but to have a flush fitting front end will be very time-consuming.

Seeing as many Sprites are 50 years old, most front ends would have changed shape since they left the factory. Where they have been raised and closed umpteen times since the Fifties, many flatten out across the back and become victims of factors.

If your potential purchase is in need of a new front end but, you can't afford a stee bonnet, glassible ones are available for around 1500. They are around 15kg lighter and a professional paintiple and corner (discreet) fixings will make this cleanly almight by the professional professional professional almight by the professional professional professional until you give it a tap of course. Classis flewird offers a bespoke hinge to keep it in place because the glassfilbre bonnets hinge from the front.

HISTORY

Designed as an economical, low cost sports car, the Sprite, or Frogeye' as it was soon nicknamed, proved to be great timing for BMC and Healey. With the resurrection of fuel rationing due to the 1956 Suez Crisis, a door had been opened for manufacturers to produce small cars.

After a chat between BMCS Leonard Lord and Donald Healey, this new sportscar project commenced. Nabbing the famous As-erise sengine in 16 948cc form, and calling upon the assistance of Healey's designer, Bill Billole, the "Sprite' as Donald Healey officially named it, was a recipe for success, Launching; a car to the Press will always be a nerve-wracking experience, and with the bigwigs from BMC and Austin-server will be a supported to the control of the server will be a supported by the property of the server will be a supported by the property of the server will be a supported by the property of the server will be a supported by the server will be supported by the server will be a supported by the server will be a supported by the server will be a supported by the server wild

Luckly, the Frogsye received praise from everyone. One criticism was made of the headlight arrangement, saying it looked like an afterthought. Healey design chief, Gerry Coker, did come up with the idea of recessing the lights into the bonnet. at I affuzire Porsche 928. But the Frogsye was a love-budget sport case to the Ingenious idea from the properties of the properties of the would have detracted from back-to-basics motoring and its cheeky front end, which in turn received the Frogsye.

moniker. Who could argue with the price either? At £669, it was a sports car for those on a budget. But it was common for this price to be exceeded, because the options list had some essentials on there.

For example, if you wanted a heater, rev counter, front bumper, windscreen washer, laminated front screen, and a locking fuel cap, it would then bump the price up to around \$700...

1957 BMC approves the Frogeye prototype, and Austin-Healey makes the move from its Longbridge factory to MG's base at Abinodon.

1958 Production kicks off at Abingdon in March, with the big Frogeye unwelling in May. Parts come from all over the BMC empire. By July, the new Sprite has competed in its first rally, the Alpine Rally.

1959 A Frogeye is included on the Targa Florio and Sebring plays host to the first major race appearance. Production of Completely Knocked Down (CKD) kits begins in Australia. By now though, work has begun on the Sprite Mk2, after complaints about the lack of boot access and, yes, even those distinctive headlamps.

1960 A Sprite competes in the Le Mans 24 hour race, and wins its class, coming 20th overall. However, in December, not long after the Innocenti factory in Milan has started building its own examples, production comes to an end. In total, 48,987 examples have been built.





Contacts

Clubs

B Austin-Healey Club, c/o Peter Holland, National Membership Secretary, Chimney Cottage, Beacon Hill, Woodhouse Eaves, Leicestershire, LE12 8RN or www.austin-healey-club.com

Specialists

- Austin-Healey Spares, Warks. Tel: 01926 817181 or www.ahspares.co.uk
- Classic Revival, Nottinghamshire. Tel: 0115 9663762 or www. frogeyesprite.co.uk
- Moss Europe, nationwide. Tel: 020 8867 2020 or www.moss-europe.co.uk

Websites

Austin-Healey Sebring Sprite website: www.sebringsprite.com

How much?

The original 5669 asking price won't even buy a restoration project in today's market, in the classifieds of CCW, we've seen price winning cars for nearly £10,000 and lesser examples, with MOT, but still needing work mind you, for around the £5000 upwards mark it is possible to bay ratty projects for a good to the project of the project of the project of the project through the project of the project who grand less, but before you do, box some welding classes and consult your financial advisor because you may be in for an expensive one.

Verdict

The Sprite was designed with economy in mind, in relation to both construction and miles per gallon. A standard Frogeye that is kept in tune shouldn't dip below 34mpg.

As with any car of this age, just be wary of the bodywork.

As with any car of this age, just be wary of the bodywork issues that we have highlighted, and the financially crippling price of that front end. Thanks to the well catered for A-series engine and the Froegrey's race pedigree, there is a good base for turning—that's fly our can bear to ruin an original example. Reversible period Speedwell and Downton accessories would be perfect though.

Insurance quote

- Fully comp, £212.40 for a 21-year-old, two years' NCB on another car, 3,000 mile limit, garaged
- another car, 3,000 mile limit, garaged
 Fully comp, £168 for a 29-year-old, two years' NCB, 10,000
- mile limit, only car, kept on driveway, club member

 Fully-comp, £78.00 for a 50-year-old, full NCB, 3,000 mile limit, second car, garaged, club member

Thanks to: Frogeye Sprite specialist, Classic Revival, who has been specialising in this quirky classic since 1987, so knows a thing or two about what to look out for. Whether it's a part that you need, ground-up restoration or race preparation, this Nottinghamshire establishment will be happy to help. Go to www.frogeyesprite.co.uk or call 0115 966 3762.

BENTLEY MULSANNE/TURBO

1985-1998

328@4300

146mph

7.0secs

14.2mpg



1982-1989

298@3800

135mph

21.1mpg

All models: Front: Independent by torsion bars, wishbones, anti-roll bar, telescopic dampers. Rear: Live axle, leaf springs, telescopic dampers

7.0secs

All models: GM three-speed automatic up until 1992 GM four-speed automatic thereafter

All models: 6750cc V8, turbocharged on Turbo models

During the era of the Silver Spirit Mulsanne, Bentley became the dominant force in the marriage with Rolls-Royce, Thus RICHARD GUNN's quide concentrates on buying the Winged B variants of these 1980-1998 era models.

arts prices

All parts from Flying Spares	
Turbo R decoke kit,	£550.0
Head gasket,	£55.0
Hydraulic tappets, set of 16,	£225.0
Front screen, used,	from £250.00
Sill moulding,	£159.0
Radiator, used, from	£120.0
Top hose,	from £39.0
Bentley hubcaps, used,	£75.0
Headlamp, used,	£125.0
Twin headlamp conversion, use	
GM 3-speed gearbox and torqu	

Suspension

Engine size

BHP/RPM

Top speed

0-60mph

Gearbox

Consumption

Because these cars use a lot of the same mechanics as the previous Shadow - which had been around for 25 years, so most of its bugs had been ironed out - the cars are extremely reliable. However, they're not really a proposition for the home mechanic, as by this era, even Rolls-Royce/Bentley had discovered modern technology, with the result that a lot of jobs are best left to experts. Who will charge accordingly. You have been warned.

1980-1987

200@4000

119mph

10.0secs

14mna

So, it's important therefore that you try to find a car that is healthy as possible. Suffice to say, the more bulging a service history file is, the better, and even if the car has fallen out of the Rolls-Royce/Bentley dealership chain, at least see that is has been maintained by a reputable independent specialist. The service interval is every 6000 miles, but with major - and therefore very expensive - services due at 48,000 miles and 96,000 miles.

The ubiquitous V8 engine is a well-proven and tough unit, for which upwards of 100,000 miles is likely to be no problem whatsoever. However, the proper coolant changes are quite vital, otherwise, internal corrosion will occur, and pistons can start to knock, the result of being squeezed by the surrounding liners. Head gasket failure can strike too so keep an eye on that temperature gauge, although a high needle could just be a result of a blocked radiator matrix (caused by lack of use), and the air-conditioning matrix can also cause similar maladies, although leaks around this area will possibly be accompanied by corrosion in the bulkhead and footwells too

Tappets are hydraulic, so if the ones on the car you're looking at are

getting noisy, replacement of them is the only real option. Touches of exhaust smoke when gently accelerating also point to potential problems. Fuel injection arrived on these cars for the 1986 model year bringing with it better starting

and improved MPG, although the earlier cars - with a Solex carburettor as used on the Camargue - do have greater simplicity on their side. On turbocharged carburettor cars, hot starting can be a problem, with some experts saving that it can take up to eight turns of the key to get the car to fire properly, thanks to the temperatures generated under the bonnet. Sometimes they can get so high that the carburettor faces can actually warp, which will cause even more running idiosyncrasies. Something to consider when you're buying...bearing in mind that there are a lot more fuel-injected cars out there than there are carburettor-fed models

The turbocharger itself is tough enough, but eventually, it will wear out, just as all mechanical items do in time. Oily hose connections will give the game away. If you come across these, remove the inlet pipe not when the engine is hot - and look for oil inside. If there's a lot of it, then things are getting past their 'best by' date. A further check you can do is to try and spin the turbocharger by hand, with the engine off. You should be able to guite easily, and if you can't, it means it has seized.

Bodywork

Stand back and look at the panel gaps. Suffice to say, on a hand-built, finely-fettled car such as a Mulsanne, they should be superb. If they're not, it points to previous repair work, and if the inconsistencies are around the front of the car, it all points suspiciously towards acrident damage.

Buts inst that common on these cars, and you won't find it on the doors, bonned ro boat as these are alkuminium (although oxiditation can set in where steel meets alloy). But call though oxiditation can set in where steel meets alloy, it is only the carried to the carried to

Boot seals can fail, letting water inside, which will then proceed to try and rust out the floor under the carpets. You should check this area from both inside the boot and below,

as corrosion can develop underneath as well.

Oh, and don't forget to check the radiator shell – on many of the Bentleys, it's chrome-plated steel, so more vulnerable than the stainless seel items to be found on Rolls-Royces. It's the bit that everybody looks at first on a Bentley (just to make sure it isn't a Roller), so you want it to be as good as possible.

good as possible.

It's undermeath where more serious problems can set in The I's undermeath was naturally pills anound the east where the proposal is and the floor itself suffers similar problems where the exhaust mounts. Often plates are fitted here to repair problems. At the back are spring mounting posts which can suffer from itself with the problems. At the back are spring mounting posts which can suffer from itself with the problems when the provided in the provided problems. At the back are pring mounting posts which can suffer from its and suffer from the provided in the provided problems. At the back are a fitted the provided problems and the provided problems are the form the provided provided problems. The provided provided problems are the provided provided problems and the provided problems are the provided provided provided problems. The provided provided problems are the provided prov

Suspension

Check all the various hybrallulic pipes for signs of leaks, although because these cans use a mineral oil in piece of the brain faultie employed in the Shadow, problems due to comotion are less littless, Fluids should have been changed every four years – look for paper evidence of this. However, you should look for leaks undermeath, more lightly to appear come the arris been praided after a drive and the engine is still running. If you see liquid from the front, then it is lightly to be the accumulations that are at fault. If it at the back, then suspect the height control values. Other possible problems are spieces, which value are of in time, as the car force up and levels itself when anybody climbs into the back, while during a set them, less front a knooling from the mare under braking. This is a major signal of timed self-levelling, Noise from the hybrallic pump signals this is on two you to to.

Pre-1984 cars have bearing pins at the front, which wear out easily, but cars built after this date had modifications carried out to stop this. Any creaks or groans from the wheels are symptoms wom suspension bushes, mountings or bearings—these cars have a lot of such things—although upper and lower ballipints are the most likely things to be playing up. Uneven tyre wear evidences this.

Steering racks can develop gaiter leaks, so look for signs of fluid here. Give them a good squeeze just to check that there isn't any trapped liquid pooling around inside.

Wheels

Don't forget to check those alloys for scratches. They can cost a hell of a lot to replace if they're been kerbed or scratched a lot. On the more powerful cars, be prepared to spend quite a bit on rear tyres – these cars do have a habit of consuming them every couple of years or so, and they're far from cheap to replace.

Brakes

Brakes need to be replaced quite often on all the models, simply because they have such a tough job to do. A Bentley is a big car for a few metal discs and some pads to have to try and stop. Seized brakes can be a problem on cars that don't see a lot of use...which can mean a lot of these cars, often used more as occasional treats rather than everyday cars.

Interior

See that cabin? Do you know how many cows and trees died to make that? You don't want any more to be sacrificed, even if just for the sake of your bank balance, so buy an example with the best interior you can. Any work that needs to be done falls into true craftsmen territory. That said, what was you in these cars in the first place was of the highest possible quality, and it should all ware actremely well.

Don't forget to check the air-conditioning. While the actual machinery itself is usually fine, hoses can be the weak spot, and any system will have needed to have been regularly maintained to give its best. The very thick carpets can often do a good job of hiding rotten floorpans caused by dodgy air con, thanks to the drain holes for the system becoming blocked.

Are all the warning lights working as they should? These cas have a lot of them, and one that is on or alternatively, one that doesn't light up when the ignition is turned on – needs their their investigation. From 1990, an electronic active memory suspension was fitted, and occasionally, the warning light for this will come on, and stay on. It's not actually anything to be too worned about if you do see it – the car just needs to go to a specialist for the memory to be reset.

Transmission

These cars have GM three-speed and four-speed automatic transmissions, both are which are generally fine, although the more powerful of the Bentleys can put a strain on the input shaft, causing it to fail and result in a new transmission and torque converter. Not good news at all.

Noisy differentials can be quite common – a whine from the rear at about 35mph means a big bill ahead for a new differential to be fitted. Best to walk away and look elsewhere if the noise is too loud. And if you can notice it in one of these well-insulated cars, then it probably is.

PRICE GUIDE - BENTLEY MULSANNE

	YEARS	MECHANICAL.	BODY	c	1	2	3
lerdey Hulsanne	1990-1967	****	****	£16,000	£13,000	£7,500	64,500
ierdey Mukanne Turbo	1962-1965	****	*****	£17,250	£14,000	£8,250	£5,000
lendey Mulsame Turbo P	1985-1992	****	*****	£18,000	£15,000	£9,500	£5,500

HISTORY

Mid-Seventies Work starts on the SZ generation of Bentleys and Rolls-Royces, the name given to the project to replace the T-series and Silver Shadow range. The floorpan and running gear of the existing model is recycled, but the very square-cut styling, by Fritz Feller, is completely new. Although it does bear a certain resemblance to what has gone before...

1980 The new Bentley Mulsanne - the name being taken from the infamous straight at Le Mans - and the Rolls-Royce Silver Spirit are launched. The two cars are completely identical, save for the trim details, and even come for the same price of £49,629.

1981 A total of 3014 Rolls-Royces have been sold...against a mere 151 Bentleys. The decision is taken to look at the Bentley brand to try and revitalise it, and a plan is formulated to make the Mulsanne distinctive from the Roller it is based on, with the emphasis on playing to the margue's sporting past.

1982 First fruit from the Bentley renaissance is the Mulsanne Turbo, unveiled at the Geneva Motor Show. Introducing the 6750cc V8 engine to a Garrett AiResearch T04 turbocharger boosts power to 'sufficient, plus 50 percent' according to the maker. In reality, that means about 300bhp on tap.

1984 An 'entry level' car - the Eight - is introduced with less equipment, to lure newcomers to the world of Bentley. The price is a mere £49,497... which was still £6000 less than the Mulsanne

1985 This may be the year that Rolls-Royce finishes its 100,000 car, but it is Bentley that is getting all the attention with the new Turbo R. The final letter stands for 'Roadholding' and denotes a host of suspension improvements designed to make the car handle better. Across the board, there are a series of minor changes including a new dashboard arrangement

1987 Fuel injection is standardised, and there's another new Bentley model in the form of the Mulsanne S, although it's actually little more than a standard car given the Turbo R interior.

1989 To further reinforce the growing differences between Rolls-Royces and Bentleys, the latter cars get four round headlamps in place of the previous two square ones.

1990 Series 2 cars have new interiors, alloy wheels and engine, suspension and handling changes. They now run on unleaded as well. 1993 The Eight and the Mulsanne S are merged together to become the

Brooklands 1994 Power goes up across the board with the advent of the Series 3 cars.

plus there's the usual interior rethink. 1995 Another new Bentley comes along in the form of the Turbo S. Just 60 of these cars - with a 408bhp turbocharged V8 engine and Formula 1

management system - are constructed. 1996 Another slight revamp occurs - which means yet more changes to the interior. Plans to call these cars the Series 4 are dropped when it is found that the Roman numeral IV is a symbol of death in some Far Eastern

countries. Which isn't great advertising. 1997 The final Bentley variant - the Turbo RT - uses the same 400bhp powerplant as in the Continental T, and gets a mesh grille as well as body

colour-coded bumpers. It's capable of 150mph, but costs £148.990. 1998 The Mulsanne shape cars go out of production, to be replaced by the Arnage/Silver Seraph.

Insurance auote

For a £12,000 1987 Bentley Mulsanne Turbo, no modifications, based in Peterborough

Fully comp, £375 excess: £1500 for a 29-year-old, two years' NCB, clean licence, 10,000 miles, only car, kept on driveway, dub member

Fully comp. £100 excess: £298.05 for a 50-year-old, full NCB. clean licence, 3000 miles, second car, garaged, club member Quotes from Firebond (0870 111 0464 or www.firebond.co.uk)

Contacts

■ Bentley Drivers Club, WO Bentley Memorial Building, 16 Chearsley

- Road, Long Crendon, Aylesbury, Bucks, HP18 9AW, Tel: 01844 208 233 or www.bdcl.org
- Rolls-Royce Enthusiasts Club, The Hunt House, Paulerspury, Northants, NN12 7NA. Tel: 01327 811788 or www.rrec.co.uk
- Specialists
- Montague & Company, Surrey, Tel: 01483 898595 or
- www.bentlevspecialists.com
- Shadow Motor Cars, Kent. Tel: 01634 264425
- Royce Service & Engineering, Surrey. Tel: 01737 844999 or www.rovceservice.co.uk Stewart Walker, Oxfordshire, Tel: 01634 866 833 or 07831 800727
- Flying Spares, Leics, Tel: 01455 292949 or www.flyingspares.com ■ T & G Autospares, Yorks. Tel: 0113 255 9908
- Paul Markley, Notts, Tel: 0115 950 1063 ■ Ghost Motor Works, Kent. Tel: 01732 886002 or
- www.ghostmotors.co.uk
- Hanwell Car Centre, London, Tel: 020 8567 6557 or www.hanwells.com
- Hillier Hill. Bucks. Tel: 01234 713871 or www.hillierhill.com ■ Balmoral, West Midlands. Tel: 01562 711114 or www.balmoral.com ■ English Automotive Services, London. Tel: 020 8487 3900 or
- www.englishautomotive.co.uk ■ Phantom Motor Cars, Surrey, Tel: 01525 850231 or www.pmcuk.com
 - Healey Brothers, Northants, Tel: 01933 650247 or www.healeybros.co.ul
 - Jack Barclay, London. Tel: 01270 653 653 or www.jackbarclay.co.uk ■ Rolls-Royce Owners Club UK, Unit 14/15 Riverside Business Park, Lyon Road, Merton, London, SW19 2RL, Tel: 020 8544 0600

Market Trends

Well, at least these aren't Rolls-Royces! The more overtly sporting nature of these Bentleys - especially the Turbo models - means that prices haven't fallen quite as far as they have for the more restrained variants boasting a Spirit of Ecstasy up front. However, at around £20,000 for even the best of these cars, the gulf between current values and original values is massive. So, as such, these Bentleys are terrific bargains, Comparatively,

However, the financial trend at the moment is still slightly downwards. These cars haven't quite dropped into the twilight world of Silver Shadow/T-Series price tags, and probably won't, thanks to most of the Bentley offshoots actually being genuinely different to their RR brethren. But, here on CCW, we still reckon values have a little way to go before they stabilise properly and start to creep back up again.

Verdict

Remember that, with cars such as these, it's not so much what you spend initially, as what you'll have to spend later on. Bentley ownership isn't a cheap proposition, which is why you should never jump in feet first and buy the first example you come across. Unless it really is very, very good indeed. It's vitally important that you can't just afford the initial purchase price, but can also stomach just general running costs and how much you'll have to pay if things do go wrong. Even simple things on one of these cars can be a bank breaker if you're trying to stick to a budget. In fact, budgets and Bentleys are two words that should never be found in the same sentence.

The standard Mulsanne doesn't offer too much over the equivalent Rolls-Royce, which is why our recommendation is for anything from a Turbo upwards. The combination of the Rolls-Royce V8 unit and a turbocharger does turn these superlative cars into

Grand Tourers that are really rather special indeed. One thing is very important though. And that's to make sure that the car will fit in your garage at home. These cars are enormous in every way, and you don't want to buy one, drive it proudly back

home, and then discover you've got nowhere to put it!

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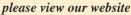
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BMW 3-SERIES (1982-1991)



Engines

Four cylinder cars: The Bosch LE Jetronic causes few problems in daily running and the main point of concern will be the fuel pump relay. When this goes, your car will stop, and you'll need another one. However at £30, it won't break the bank, and the breaker's yasto, are a good source of parts, too. Like all Bosch fuelled cars, simply leave it alone, and be prepared for sions of aceino.

The 316 and 318i power unit is rugged and long lived, and as long as it gets regular drinks of good quality oil, it will just about last forever.

Six cylinder cars: Famous for cracking cylinder heads, it's worth checking closely for the signs. Neglect is the enemy here, and if the anti-freeze looks old, or is low, the aluminium head will soon start to corrode through lack of morterition. A good sign is to check the

head will soon start to corrode through lack of protection. A good sign is to check the radiator, particles from the rusting head will silt up the bottom and top of the radiator and the engine then runs hot. Don't trust the

temperature gauge, to give you the full story. If the car overheast, the head will coach, pressurising the cooling system, and causing water loss. Checking this couldn't be simpler (on a longer test drive) – take a ten minute drive, let it idle for five, then unscrew the coolant cap — if there's a hiss, you're okap, but if this to impersonate Vesuvius in steam, then wall away – the system's pressurising.

E30 cylinder heads are readily available both secondhand through BMW specialists, or via eBay, but you can pick up a new one from GSF Car Parts, for a not out-of-order amount of money. Other than that, these engines are also strong and durable. They can get clattery if neglected, but you'll be wanting to avoid one of these, anyway.

Distributors can play up on the earlier 320i and 323i – with inconsistent power delivery and wobbly idle speeds – but as they get worse before they die, you'll have plenty of advance warning of when it's time to buy a new one.

Motronic ignition systems are usually excellent, but pay close attention to the condition of all leads and plugs.

M3. Regular maintenance is a must – and make sure the timing chain and cambult sprocket has been changed at 100,000 miles. If it has been performed by a specialist, the head spaced sure to sheep will also have been done—and if that's the steep your M3 will be yound out mil 20,000 miles. Make sure all the oil changes have been done with good quality synthetic oil, such as Mobil 1, as the 16V engine is intolerant of anything less than the best.

Specification **RMW 318**i **RMW 320i RMW 325i** RMW M3 1983-1991 1986-1990 1987-1991 1985-1991 1991cc, 6-cylinder OHC 12V Engine size 1796cc, 4-cylinder OHC 8V 2494cc, 6-cylinder OHC 12V 2302cc, 4-cylinder DOHC 16V RHP/RPM Top speed 115mph 124mph 131mph 146mph 0-60mph 10.3secs 9.5secs 7.2secs 6.5secs

versions, and all models rear wheel drive, except for the Euro-only 325iX four-wheel drive version...

Consumption 318i:23-32mpg 320i:21-28mpg 325i:20-28mpg M3:18-26mpg

Suspension All models: Front: Independent by MacPherson struts with coil springs, anti-roll bar and dampers. Rear: Independent by semitrailing arms with coil springs and dampers.

All models: four-speed manual on early 316, standard five-speed on all models from 1985. Three- and four-speed automatic

It was considered one of the greatest Yuppie status symbols of the Eighties — a powerful symbol of what you could achieve if you climbed off the Ford/Navahall rung of the company car ladder-However, look beyond the red braces image and you'll find a sweet compact classic you'll be able to enjoy for years to come. KEITH ADAMS explains.

Wheels

Most of the remaining 3-Series BMWs in circulation will be riding on alloy wheels – so make sure that they are in good condition, are not kerb damaged, and that the tyres are wearing in a consistent manner. M3 alloys are now very hard to find, so pay close attention to condition.

Interior

Generally hard wearing and tough, the major source of irritation for 3-Series owners is a worn out drivers' seat. However, if you're looking at an earlier car with worn bolstest, there is now a sufficient supply of later (tougher) spec interiors knocking around in the breakers yard – if you're not bothered about originality.

At high mileage, the seats can also begin to rattle and feel loose, so tightening the retaining bolts plus the various seat mechanism bolts hidden behind plastic trim is worthwhile. Finally, it's not a deal breaker or difficult to fix, but look for heaters that blow only cold air. It's down to a failed electronic valve found just inside the allowebox.



Parts prices

Common parts prices, supplied by GSF Car Parts (www	x.gsfcarparts.co
Rear Brake Drum (316/316i/318i/non ABS),	
Front Brake Disc, Solid (316/316i/318/318i),	£14.5
Front Brake Disc, Vented (325iX/320i/318is),	
Brake Master Cylinder (320i 82-86/non-ABS),	
Brake Master Cylinder (316i 88-91/ABS),	
Front Brake Caliper (318i 82-91/non ABS)	
Clutch kit (316 82-88 four-speed),	£84.1
Clutch kit (320i 82-91),	
Clutch kit (M3 86-91),	£142.
Water pump (318i 82-87),	
Engine radiator (Manual transmission 318i 82-87),	
Driveshaft (all models),	£64.
Rear wheel bearing (316i 88-91),	
Anthracite carpet set,	
Rear exhaust silencer (325i 88-91). Two-part system,	£108.6
Exhaust fitting kit, (316i),	
Bumper centre (front), all models to 1987,	
Front right wing, all models except cabriolet,	
Cylinder head and valves on exchange for 1989 318is,	£540.
Camshaft, (316i 88-91),	

Bodywork

The E30 doesn't fall to pieces, as it harks from a time when massproduced cars were screwed together with the same attention to detail as a range topping executive, but they can end up looking very bad, very easily. Rusty arches and valances are an unsightly, if not structural reminder that BMW had yet to master the art of rustproofing in the Eightles.

Rust can also affect the inner front wings and battery tray, so pay close attention to these areas when examining any potential purchase.

Transmission

Geathers in these goved automatic and manual form are trough and loop jack. The four upwend and can give problems such as large disengagement of first gear, and creeping in nentral. This indicates a lobiced view loop for a governor, or even overheated fluid. Automatics have a geathor con even overheated fluid. Automatics have a geathor such that the confidence of the co

Suspension

Bushes are a bugbear, and check the condition all round – a sloppy 3-Series will soon reveal titled on the road. Those to pay particular attention to are at the rear of the first lower representation of the state of the state of the payment of the payment. Also check the eart-oil but lines. At the rear inspect the subframe's mounting points – if it's resting down on its mounting plant be bushes have falling dampers – neither Also look for broken springs and leaking dampers – neither also look for the payment of the subframe that the subframe the subframe payment of the subframe that the subframe tha

Brakes

Boake components are very simple to find, reasonably cheap and not too hard to fit. Sticking callegres can be a problem, as can neglected and rusty brake pipes around the final drive area. Fitting new pipes generally means new flewible houses too. Steering racks are hardy but took for leaks on older power emodels. Clonking and slackness at the steering wheel could be a failing column rubber flexible joint — cheap and easy to fix.

	YEARS	MECHANICAL	BOOY	c	1	2	3
DAN 716	1963-1991	****	****	£1,500	£1,000	£500	£150
BMW 325 Baur Cabrio	1961-1965	*****	*****	£4,000	£3,250	£1,800	5650
BMW 325/Sport	1905-1991	*****	*****	16,000	13,000	£1,400	1300
DAM NO.	1996-1990	*****	*****	615,000	612,000	68,500	65,000

HISTOR'

1975 The logendary BMW 2002 is replaced by a new compact saloon, known as the 3-series. Available in forus—and six-cylinder form, the new car immediately earns a reputation for being a fun steer and lively performance—a legend is born.

1982 BMW launches the replacement for the much-loved E21 3-Series

1982 BM/I launches the replacement for the much-loved E21 3-Series two-door saloon, after a production run of 1,364,039. Although the new car (codenamed E30) looks similar to the last one, it's virtually new from the ground up. As before, available in four-cylinder form (the 316), and as a straight-six (the 320i and 3230), the more expensive cars feature Bosch fluel injection.

1983 Automatic versions have their original three-speed ZF 'box

replaced by a more efficient four-speed 4H 22 unit.

1984 The 318I joins the range, and immediately becomes the big seller in the range. A smart new four-door variant also joins the range.

significantly widening the appeal in company car circles.

1985 The 3231 name finally dies, as an uprated 3251 joins the range.

More grunt is available thanks to the larger capacity engine, improved
cylinder head breathing, and full engine management, supplied by a
Booch Motronic system. The first MI is shown at the Frankfur Motor
Show, and Immediately wins plaudits on account of its advanced
specification and exiting stylino.

1986 IS Special Equipment versions of the 370 and 325 are launched, featuring power steering electric windrows and surroof, headding wash-wipe, alloy wheels and ABS on the 325. A Sport version of the 325 allo makes an appearance, featuring NF-ch bodyldt, special wheels and lowered suspension. General specification on the special version of the 325 and special power of the special power of the special power of the special power of the purpose are also included with the standard femeral or central across the range. The MS is launched, fishturing a 1959bip 2.3-litre 16V power until reveloped by BMMY MSGOOT wiskins.

1987 The E30 receives its first facelift, featuring more effectively integrated plastic bumpers, and larger rear light clusters.

1988 Five-door Touring model is announced, further expanding the appeal of the E30 range. Six-cylinder versions are initially made

available, but the hold-all's range is expanded in subsequent years.

1990 BMW M3 Evolution is launched (again in LHD form only) and has an upqunned 2.5-litre 16V engine, now boasting 238bhp.

1991 Production of two- and four-door saloons ceases with the introduction of the new E36 version.

1993 Production of the convertible version finishes.

1994 Production of the Touring version ends, and the E30 scores a final production tally of, 2,085,573 saloons and 247,129 Touring models.



Insurance quote

For a £10,000 1990 BMW M3, with no modifications, based in Peterborough.

Fully comp_£100 excess: £649 for a 29-year-old, two years' NCB, clean licence, 10,000 miles, only car, kept on driveway, club member, with Cat 2 immobilisor.

Fully comp, £100 excess: £387 for a 50-year-old, full NCB, dean licence, 3000 miles, second car, garaged, club member, with Cat 2 immobiliser.
 Quotes from Firebond (0870 111 0464 or www.firebond.co.uk)

30 CCW BUYER'S GUIDE

Contacts

Clubs

- BMW Car Club (GB), PO Box 328, Melksham, Wiltshire, SN12 6WJ. Tel: 01225 709009 or www.bmwcarclubgb.com.
- BMW Drivers Club International UK, c/o Peter Hicks, Norfolk. Tel: 01362 691144
- Specialists: ■ Munich Legends, East Sussex. Tel: 01825 740546 or
- Munich Legends, East Sussex. Tel: 01825 74 www.munichlegends.co.uk.
- Fritz's Bits. Somerset. Tel: 01823 669425
 - Fritz's Bits, Somerset. Tel: 01823 669425
 Jaymic, Norfolk. Tel: 01263 511710 or www.jaymic.com
- Hartlake Specialist Cars, Kent. Tel: 01474 326626
- Motormec, Suffolk. Tel: 01502 500590
- German, Swedish and French Car Parts, nationwide.
 Tel: 020 8917 3800/0870 606 0153 or www.gsfcarparts.com
- Motor Works BMW Car Parts, West Yorkshire. Tel: 0845 408 1640 or www.motorworks.co.uk/cars

Market Trends

The BAND Series really can be picked up for a bargain barrent price, and fly you can the closelled adu or trans if no online auction letter, you'll be able to find traty and uncared for 318 and 310s for well under 5500. The able to find traty and uncared for 318 and 310s for well under 5500. The uncertaint is, would you sum to not there of a through they will provide loady you'll want to move up the scale to \$1000 plus for the better soloon. Although the four-finder care are only site and in the close you can expect to pay around \$1000 for ally to parample—attempt the soloon of the s

The six-yilinder 320, 323s and 325i can start from as little as 5200, but again, unless you're locking start little flower at Intellife Idoder at Intellife Idoder at this level. Without colout, the best model to go for is the 325i—and values bear whice one for the six of the six of

As for the M3, this is in a different ball game altopether. Bank on paying 50000 for something ineeding work and neglected Between £8500 and £112,000 is where the good useable examples of M3 and Evo models will be find, but you can stray over £15,000 for Sport Evos and convertibles. A word of advice with the M3-buy from a specialist, such as Munich Legends or go with the BMY Car Clab IGBL.

And remember – any specialist, such as Munich Legends, will be able to identify any car you're looking at, so if you think it's a fake, or you just want to check, then don't be afraid to make that call.

Verdict

The BMW 3-Series is gaining classic appeal now, as the red-braces image of the Eighties, becomes a distant memory, and the car's positive qualities begin to shine through. There are still a lot of tatty, abused uncared for examples knocking around in the trade, but these are thinning out as the breakers yards beckon. That means the nicer examples are getting easier to find as the whether-st-shiff groonsorious become more favourable.

With solid build quality and rugged componentry, the BMW 3-Series, has a lot going for it, but if you choose unvisely it can be an expensive experience. The six-cylinded 325 will follow the M3 into the realms of fully-fledged classics sooner rather than later, as combination of chuckable handling, powerful engines and tight build quality transcend any notion of the unfavourable immage that is unjustifiably attached to any notion of the unfavourable immage that is unjustifiably attached to

these cans. So it seems like a good time to buy one for a reasonable price. The MB is already there – affantasis gooring package with as much charisma as any of the late-Epities homologation specials out there. The MB is a perfect soigh presonable proformance car though—it's a ferezacker on the race track but can be used as a communer tool with the many continuous proformation of the many continuous proformation of the MB and the many can be many continuous proformation of the many conti

But for some, only the ultimate will do – and for them, the M3 is the car. For the rest of us, a well priced 325i will make an excellent daily classic...







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Parts prices

r arra pricos	
Suspension sphere	£45.00
Exhaust system, including r	nounting kit,
late model, mild steel	£250.00
Front wing	£750.00
Door panel repair kit	£65.00
Brake pads	£48.00
Brake disc	£65.00
Clutch kit	£135.00
Rear gaiter	
Pressure regulator	£55.00
Accumulator	£50.00
Hydraulic pump	£150.00
Drive belt, set of four	£26.00
Fuel tank, exch	£175.00
Radiator	£147.00

Engines

The engine designs dates from the Traction Avant, to they're nowhere near as advanced as the next of the St, although they last well enough if looked affect. The later ones - 1985cc, 2175cc and 2547cc - have the bearing canaks, so are another and the most troubus, but the engine 1911cc until set that the behind. Canada is not to be the set of the set

A noisy timing chain signals an engine-out job – that's what you have to do to fit a new chain and tensioner, unless you mind cutting a hole in the inner bulkhead and doing it that way. However, a timing chain, if left, will wreck the engine if it does.

Head gaskets can blow repeatedly, not necessarily because of a problem with the head – whether skimmed or not – but if the cylinder wet liners have started to sink into their block,

Camshaft seals can leak oil and tappets often go without adjustment for longer than they should, so listen out for these being noisy...and if they are, they can cause the engine to run on after it is switched off. On righthand-drive cars, changing the starter motor is a real pig. Paul Harris, of

DS World, told us that with everything that needs to be removed to get to the unit, it can take up to a day. So be warry of a car that series a little last yot start... The electronic fuel injection on the EFI cars is courtery of Bosch, and so is usually quite well-behaved. but fuel-line and wrining problems can occur. Do look at the flexible fuel pipes though. If they have cracked, they could leak, and fire could be a ver real threat.

Gearbox

The genthoxes are tough enough to outlast most of the rest of the car and because new and secondhand ones are available, most people simply op for one of those rather than rebuild an original. The semi-automatic, hydraulically-assisted gearhoses on the earlier cars are complicated, and if one part of the system stops ownking, then it can make things difficulty. They need to be set up properly to give their best thought.

While out on a test drive, make sure you try fifth gear if in a later car. If there's a whine, then it signals a new differential is needed. Which can be expensive... it takes DS Classics two days to take a gearbox out and then put it back in again. Just so you know.

Steering

Split bellows on the steering rack can occur if the clutch is getting on, or if the adjuster isn't set properly. It can actually protrude so far that it rubs the bellows, and ultimately causes them to split.

Specification

specification					
Car	Citroën DS19	Citroën ID19	Citroën DS/ID20	Citroën DS21	Citroën DS23 EFi
Year	1955-1968	1959-1968	1968-1975	1966-1975	1973-1975
Engine	1911cc 4-cyl OHV	1911cc 4-cyl OHV	1985cc 4-cyl OHV	2175cc 4-cyl OHV	2347cc 4-cyl OHV
BHP/RPM	75@4500	66@4500	103@4500	115@4500	141@5250
Top speed	87mph	83mph	105mph	112mph	120mph
0-60mph	22.1secs	21.1secs	14.2secs	14.4secs	10.4secs
Gearbox	4-speed	4-speed	4-speed manual	5-speed manual	5-speed manual
	semi-automatic	semi-automatic	/4-speed automatic	/4-speed automatic	/4-speed automatic

Suspension All models:

Front: Independent by twin transverse parallelograms, anti-roll bar, self-levelling hydropneumatics.

Rear: Independent by trailing arms, anti-roll bar, self-levelling hydropneumatics

The DS is one of the most beautiful and evocative classics of all time, fully deserving of its Goddess title. However, it's also a fiendishly complex machine, which is why RICHARD GUNN's guide is a wise read before you decide to but...

Interior

You can pretty much get everything you need for a DS interior, and it is robust enough to stand up to a lot – although the sun does affect the top of the back seat - but prices can be high for replacement material, especially if you're looking at a Pallas with leather interior.

Wheels

DSs were designed to run on Michelin XAS 180 tyres, but these cost about £125 each (or £146 for the 185s used on the fuelinjected crsl.) While cheaper tyres are available, for about £50, many owners swear that the cars don't handle nearly as well on these. Our expert, Paul Harris, recommends at least fitting Michelins to the front wheels.

Bodvwork

Like the Rover PG, the DS is a steel skeleton on which the outer panels are hung. Therefore, what the exterior looks like is far less important than the inner structure, as new panels simply bolt on if required. Check all the bits of the inner shell that you can, such as the side rails against which the doors close, look at the undementab of each of them, to see if there's any corrosion starting to break out. Bubbles will only the caner away, and requir's will be eventually be required.

The rear wings can be checked from inside the boot – tinworm will be most likely in the gutters and look for holes in the boot floor too, prone to occur at the leading and trailing edges. The bootlid itself has a sponge-rubber seal, which actually traps water inside it, and thus causes the lower part of the lid to not. Incidentally, because the lid isn't that strona, it can crack down each side, as well as its uponer edge.

If you really want to have a thorough check, it's actually easy to reverse the back wings on DSs...they're simply held on by one bolt, in order to make it easy to change the back wheel. Once off, you can look at the bumper mounts (a known grot spot), cylinder brackets and those all-important winos.

Look at the sills, which corrode as much as on any classic. The trouble usually starts at either end, but if you look at the panel and it is starting to bulge outwards rather than run flat, then there are likely to be problems inside.

Although the outer panels sent structural, they are getting scarce and price; where days, and to reglace a lot of them and then have a respony could easily result in a four-figure sum expenditure. The front wings are not promore at their bottom new corners as well as the wheelanches, and the post-1968 cars with fared-in headfamps do front have problems beneath these learnings. Regularing them can lead to the metal distorting, meaning that the glass headfamp cover then won't fit.

At the back, the rear wings also start to disappear, this time along their bottom edge, although it can also strike the top edge too, and the doors are quite well-known for going along their bottoms, thowever, to such workers about bonnet, which is aluminism. And the not of the saloon is glassifite, although Salfaris and Breaks do have steed ones. Indely surprising, seemly now long they have to be! However, water getting under the glassifiter and attacking the metal underneath wont of any favours for the look of any DS.

Waist strips and the brightwork at the top of the door can also conceal rust, not something you have to worry about with the lowerspec ID cars.

Hydraulics/suspension

Yes. The scary bits. The parts of a DS that send enthusiasts more used to metal and springs into apopleay. And, agreed, all the pipework, spheres and pumps of a DS can be worrying if the car hasn't been properly maintained, but on one that has been looked after, it should be (mainh) trouble-free.

Much less is worked by the hydropneumatics on an ID than on the DS, where it does practically everything except make the tea. Corroded pipework is the major thing to look out for, since the system is pressurised at 2400psi which means, if it gives way, it will do so guickly if on the move. Starting the engine and setting the suspension to high will give you the chance to look underneath easily and see if there is any fluid dripping...with the nearside rear wheelarch area a usual suspect. The rear gaiters can also let the vital fluid escape, especially if they haven't been secured properly with the proper ligarex straps. If corrosion has affected the pipes, a new set can be getting on for around £300 for the main part. Although the system does operate at high pressure, there's a low-pressure return...and the good news about that is that it's simply rubber piping, which will be far cheaper to replace if necessary. The suspension spheres can be an issue... either if they need recharging or because the inner diaphragms have gone. However, the good news is that sphere replacement isn't terribly difficult, or expensive.

Upude Hydraulique's printérique. Fortunately, this Galler nouthful can be handly shortened to 10%. Infortunately, this facille in count fuil can be handly shortened to 10%. Infortunately infortunately can find really just rocket can findency, the commisse, which means it ests away at the pipes from inside, and it also abortan noutious, which reference in efficiency, OH, and the county of the

Up until 1966, the cars used a red hydraulic fluid by the name of

Listen to the pump to see how hard it is working – a more or less constant ciking means it's operating almost continuously, probably because the accumulator sphere is wearing out. Clicking every 20 seconds or so is the normal interval. Utilizately, the pump will wear out if it has too much work to do, and the accumulator sphere is quite an important piece of kit anyway, as it provides emergency harking power if the engine cuts out. As a matter of course, the accumulator should be memore dever where or flow years.

With the conventional bits of the transmission, the driveshaft joints can wear out — listen for a knocking on full lock — and balljoints will start to seize up if not regularly greased. Clunks or clacks from the rear signal rear suspension pushrod wear.

Brakes

The basks are one of the finest points of a DS. They're incredibly efficient, and their sharpness always cathes non-Croisin divines out when they try them for the first time. However, they're not easy to work on, because the front ones are indoord, which means that dixes can take twelve hours to change, while the pads alone are a good cougle of hours. It's guite a false encourage in free parts are good; end for the parts and the cougle of hours. It's guite a false encourage in free parts are you'll end up spending more effort and money than if the proper Feedd ones had open on in the first place on the had good one in the first place.

Do test the efficiency of the parking brake. Access to it, to make adjustments, is difficult.

1938 Over at Citroën in Paris, thoughts turn towards replacing the Traction Avant, with the intended new big car planned for 1940...a year which, ultimately, would prove a little tricky for the French, as well as the rest of the world.

1939 Paul Mages, a Citroën engineer, begins his exploration of

hydraulics, with ideas gradually turning towards powering key parts of the forthcoming car with hydropneumatics.

1946 Work restarts properly on the big Citroën, after the unfortunate Interruption of World War 2. At this stage, the VGD - Voiture a Grande Diffusion - is being envisaged with a flat-six engine, although this proves very troublesome to perfect, and is eventually dropped in favour of an enlarged 1911cc Traction Avant unit, Naturally though, this being a Citroën, the drive will be transmitted through the front. wheels. Meanwhile, the streamlined design is gradually evolving from a rather bulbous shape - dubbed the 'Hippopotamus' - towards the smooth wind-cheating look that would so characterise the eventual

1955 The Citroën DS19 is launched at the Paris Salon on October 6, 1955. Well, it's not so much a launch as a revolution, as the car completely steals the show. By the end of the first day, 12,000 orders have been taken for the new, complex, hydropneumatic French car that automatically makes everything else seem old-fashioned by contrast.

1956 DS19s go into production in Citroën's UK factory in Slough, Berkshire. However, to appeal to the very traditional British market, there are several significant changes, including a lot more chrome and,

later, wooden dashboards and leather interiors fitted. 1957 The ID19 is unveiled as, essentially, a low budget DS without the hydraulic steering, brakes or gearbox, plus a detuned engine and a less

1958 By contrast to the ID is the DS Prestige, practically a limousine. with a central partition between the front and the rear, and extra toys to play with inside. Meanwhile, an ID Break (estate) and cabriolet, built

luxurious interior. Imagine a hydraulic 2CV almost...

by Henri Chapron, make their debut at the Paris Motor Show. 1959 The frankly huge Safari - with accommodation for seven people when it isn't lugging large loads around - breaks cover

1961 ID and DS cabriolets - courtesy of Henri Chapron again - become official Citroën models. For those buying the more mainstream tintop cars, the DS19 gets a new dashboard for the 1962 model year.

1962 There are tweaks to the front of the DS, which not only slightly improve the already impressive looks, but also allow maximum speed to rise by about 7-9mph. A fully manual version of the DS also becomes available: previously, the hydraulics operated an automatic clutch

1964 The Pallas trim level is launched, as a luxury version of the DS. with far more splendour inside, as well as extra driving lamps and flashy bits outside.

1965 New five-bearing engines are introduced, in 1985cc and 2175cc form, the latter leading to the introduction of the DS21.

1966 Manufacture of the DS comes to an end in Slough. 1967 The biggest physical change in the DS's history occurs, when the

nose is remodelled with self-levelling swivelling headlamps, operated by the steering. The move, orchestrated by Robert Opron, actually manages to make the Goddess look even better, a rare feat not often achieved by most mid-life facelifts.

1968 The DS19 and ID19 are superseded by the DS20 and ID20...and the DS21 gets 115bhp.

1969 Fuel injection arrives, resulting in the 139bhp DS21 EFI model, On all the models, there's a revised fascia.

1970 DS owners can now specify a five-speed transmission as an optional extra.

1972 The ultimate mainstream DS arrives in the form of the DS23 with a 2347cc engine. In its most powerful form - with fuel injection - it

1975 Production of the DS comes to an end, to make way for the

almost-as-glorious CX. In total, 1,455,746 have been built of all types.

PRICE GUIDE - CITROËN DS

	YEARS	MECHANICAL	BODY	c	1	2	3
Otrodn 05197019	1955-1968	*****	****	£8000	£6250	£3000	£900
Otroin 052021/23/94(a)	1968-1975	****	****	11,000	£9000	£4250	£1200
Otroin DS Decapotable	1963-1971	*****	****	£37,500	£32,500	£29,000	£11,000
CONDITION GUIDEC No-de specifi		1 / late-car, top-coed shable-colour, but sti			ample, resu	mable spec 3	might be I

Contacts

Clubs

■ Citroën Car Club. PO Box 348. Stevning, BN44 3XN, Tel: 07000 248258 or www.citroëncarclub.org.uk

- DS World, London, Tel: 020 7498 7111 or www. dsworldltd.com
- Brodie Engineering, North London, Tel: 020 8459 or www.brodie.co.uk ■ Centreville Garage, Newcastle. Tel: 0191 276 3730 or http://home. btconnect.com/centreville/html/service.html
- Citronique DS Solutions, South London, Tel: 07860 308135 or 07941 216836 ■ French Classics, Kent. Tel: 01474 703125 or www.justfrenchclassics.com
- Peacock Engineering, Norfolk, Tel: 01953 605678
- Pleiades, Cambs, Tel: 01487 831239 or www.citroën-hydraulics.com
- Vantage, South London. Tel: 020 8544 9998

How much?

Even though many classic enthusiasts are scared - actually, make that terrified - of the very complicated DS, its status as an acknowledged design classic means that prices are still quite high. Very nice examples regularly fetch over £10,000, and even guite nasty ones barely capable of lifting themselves off the deck are worth a couple of thousand. The values go really silly with the convertible Décapotables. It's usual that an open-top version of a classic will cost double the saloon variant, but in the case of the topless Goddess, you could be looking at almost £40,000 for the best ones. Still, they're both rare and beautiful...so such money is more than justified in our opinion. Of course, you could always make your own. Somewhere out there in Citroënworld, there's a salpon with the top cut off, and a Citroën SM powerplant under the bonnet. Now that's our kind of DS...but don't ask us how much it would fetch on the open market!

Verdict

These cars aren't for everybody. To truly appreciate a DS, you also have to appreciate a novel approach to engineering, the desire simply to be different and stand out from the rest of the crowd, and actually a rather stubborn attitude towards making things quirky just for the sheer hell of it. If traditional is your bag...then the DS won't be. If, on the other hand, you know you'll never get bored of single spoke steering wheels, random hydraulic wheezes and sighs while on the move, and the sheer pleasure that comes with watching - or experiencing from the driver's seat - a DS majestically rise into the air just after its engine has been started, then welcome to the big hydropneumatic Citroën club Any of these cars - whether DS or ID, early or late - is beautifully

smooth and eccentric to drive, in a way no other car without a double chevron on it can match. But we do rather like the shark-nosed post 1968 models, a rare example of a front end restyle actually improving something that was gorgeous enough already. And, for the ultimate Goddess, a DS23 EFi in Pallas form takes some beating. It has the looks, it has the luxury, it has the lounge, but it also offers an extra dose of performance, above all the other models, to compliment these attributes.

Insurance quote

- For a 1970 Citroën DS21 EFi, valued at £8000, based in Peterborough Fully comp. £184,80, 29-year-old, two years' NCB, 10,000 miles, only car. kept on driveway
- Fully comp, £73.50, 50-year-old, full NCB, 3000 miles, only car, kept on
 - Quotes from Firebond (0870 111 0464 or www.firebond.co.uk)

puts out 141bhp.

Buyer's Datafile: Citroën Traction Avant

Before the DS, before the CX, before the SM, before the 2CV and all the other great classic Citroëns, there was the Traction Avant, RICHARD GUNN looks at the grandmother of all guirky French Double Chevrons

oën, before May 1934, was simply just another nufacturer of well-built, but ultimately, not particularly interesting cars, reliable and stylish ugh in their own way, but with little to distinguish them from all the other well-built, not

particularly interesting, reliable and quite stylish cars t so many other identikit car firms were also building leader. Although the looks of the Traction Avant may the company's radically-styled postwar products, for its era, it was a very modern-looking vehicle, styled by Flaminio Bertone. But that was just part of the appeal. More revolutionary was its monocoque construction and front-wheel-drive, engineered by the team of visionary

engineer Pierre Lefebvre. Despite the major advancements in mainstream car design, the Traction Avant project took little more than a year to come to fruition, a Herculean task considering all the bour it was oushing back. In fact, it proved too much for both the Citroën company and its founder as the massive investment required resulted in the company going into

agree that the gressure of launching the car contributed to the early death of le patron, aged 57 His legacy lived on, in both company (under Michelin) and car. Early cars had 1302cc engines (7CV)

engines, but these underpowered models were soon replaced by the 7C cars, with 1628cc engines, and the range also expanded to the 11VC of 1911cc - the engine

you're most likely to find today. The 'executive' range, as it would probably have been called now, came out in 1938. Dubbed the 15CV, these models had 2866cc straight six engines...although with only around 77-80bhp

For us picky Brits, Slough-built cars were fitted with wooden dashboards and leather trim, so we didn't have to lower ourselves to the standards of French peasants 25,000 were constructed in Windsor's slightly less attractive neighbour.

As radical as it was at the time, the Traction Avant had dated by the Fifties, and was replaced by the even more amazing DS...but not before a few Tractions had been built to trial out the hydropneumatic system of the forthcoming car, with self-levelling suspension at the rear, Just 3079 were made from 1954 to 1955.

all cars, but brake pedals are likely to

Is it a classic?

Ask the French Resistance...If you can find them! article about a car built from 1934 to 1955, especially when it is asked about something of the calibre of the Traction Asant, It is a legend, and not just among Citrolin enthusiasts its landmark features demand respect amongst all classic car fans, and it's become iconic as one of those cars that just seemed to symbolise the country of its origin from the Thirties to the Fifties, and even beyond, into the DS-era. And, as hinted earlier in this paragraph, it's a vehicle much-associated with the French Resistance of World

War Two, the image of shadowy figures administering swift and surprising justice on

of the Traction Avant are beyond all possible doubt. What's out there?

Because the Traction Avant replaced all the other Citrolin models, it came in a multitude of different styles, from convertibles to faux-cabriolets lightich perhaps have been a better term), Familiales (the Esara Picasso MPV of its day, with the ability to seat. eight people) and the Commercials with a two-part taloute. Fooines varied from the four-culinder 1302cc cars through to the 2866cc six-cylinder cars. One car, but all types of customer catered for Numbers have thinned significantly from the 806,793 of all types originally built, but significant amounts do remain, although joining the dub is the best way

What to look for?

ELECTRICS: Slough-built cars came with 12-volt systems as standard, those from France had six volts. The British-produced models are obviously more desirable because they're easier to start and more durable during winter, but many spark-challenged examples constructed in their homeland will have

WHEELS: Check the times for wear and perish - many Tractions don't get used very much, and replacement subber is REAKES I'V hydraulics all amunding

be hard. Nothing much goes wrong save for occasional damage to brake drums. Judder when braking is usually the Silentbloc bushes in front lower suspension arms, or, on four-cylinder the inner wishbone bushes. INTERIOR: With their leather interiors, the Slough car cabins are likely to be more durable than their clothclad Parisian counterparts, but will also cost more to

retrim of course, if recessary, Bakelite steering SUSPENSION/STEERING: Look at the rubber collars

linking the front and rear tonion bars to the suspension - a lot has to be removed to replace them, if they're worn out, Lubrication is necessary every 1000 miles, so ask to see if this has been done

If it hasn't, things will start to stiffen up and creak or clatter. Rack-and-pinion steering was introduced from 1996. If it's heavy or there's play, it's another sign of lack of lubrication.

TRANSMISSION: Three-speed manuals were on all cars and can suffer worn synchrometh as well as falling clutches. And don't even think about trains to known to be fragile and easily broken. Modern with the front-wheel-drive system, to make the cars. more usable. Ask to see if such work has been carried out on the example you're looking at. If the hub nut isn't done up to 250 lb ft, it can break the driveshafts. They can even snap and destroy the hub and broke drum. On the six-cylinder cars, a judder when the

clutch is released (along with burning rubber) points

to the rubber dampers on each driveshaft breaking ENGINE: Engines aren't known for their durability. with the white metal bearings of the ove-1954 cars. being somewhat less than solved. On post-1917 cars. used instead of study for head retention. Some try to compensate by over rightening the bolts...which can lead to them snapping. Engines which haven't been started in a while can state a niston when roused again. Expect oil leaks from the front as par for the course, Clutch judder on take-up can be worn engine mountings, and a leaking water gump can

cause the clutch to wise as it drips onto the hellhousing Check it. point to the starter ring gear about to come lose. Not good news. And neither is a sound similar to big end rank as it Anges the contribut damper coming loose. Which will, ultimately, destroy the carrelraft, Overheating affects all models, usually the radiator being blocked. If an electric fan is fitted, make sure it.

isn't just there to hide cooling prol 800YWORK: Despite being an early monocoque. the cars are guite resilient to rust, Look at door bottoms and lower panels, plus silk (three piece items - be wary of cover silk), fromwells and monocogue has weakened. Either side of the

are extensions from the bulkhead called ambonneaux, which can compde. If they're rippled (slong with the bulkhead), it's likely accident damage. Look too at the tricky-to-repair front. Slough cars usually came with a steel sunroof count until the drain holes block which will lead to a

The aluminium trims on the front and rear wines may look all very nice, but they're great for hiding conside. Boot lid, hinges and floor also conside especially on those cars with extended lids

The parts situation

And another good reason for joining the relevant dub. Not only does the Traction Owners Club sell spares, but becoming a member will also provide to go about preserving these vehicles. There are has achieved its first half century, you're hardly likely to be able to walk into your local Halfords and get bits off the shelf - which is why a little exper nowledge always comes in hands

That some bits and pieces went on to be used in are easier to come by, but substituting more modern parts for some of the original items isn't frowned these on the road.

Typical prices (from Traction Owners Club Spares) Full engine gasket set, six-cylinder,

£248.35

£80.00

£1500

Water pump. Radiator reconditioned Starter motor, reconditioned, from £117,64 Complete stainless steel exhaust Outch pressure plate. Bake drum, front, 12in. Boot lid early good condition 26/ Facine rehuld

Specialists

■Traction Renaissance Services, Glos ■ CT3 Services Holland Tel: #31/0486.451818 or www.ctasenice.nl/index.uk/tm

■ Traction Owners Club Spares, XXX Tel: 01243 511 378 or www.tractionowners.co.uk/spares/index.htm Classic Restorations, London, Tel: 020 7358 9966

Clubs

Traction Owners Club, clo Mr PD Riggs, 6 Newton Close Rushden, Northants, NN12 OHR or website.

Citroën Car Club, 101: 07000 248 258 or What should I Pay?

French icons that these are, prices can be high for Roadster grab you? That said, you will be extremely more likely you'll come across a four-cylinder saloon where prices can hover around the £10,000 to £12,000 mark if you're after the very best, although private sales of these types should see you spending between ES000 and E8000. Barket cases are much cheaper - under £2000 - but think carefully about

how much you will have to spend to get the car back to good orde Perversely, the lower-powered cars demand a higher premium, and so do the more powerful sixes

The former models can demand entra because they're earlier, and therefore very desirable to rnlantors, while the six-cylinder cars have the bigger smoother, more refined engines on their side something which ups values

Should I buy one?

Well, don't enter into ownership lightly. These are cars designed before the Second World War, and although they were years ahead of everything else at the time, you're still talking about the technology of the Thirties. But, these are very special classics. representing the point where Citrain first set off on its adventure into individualistic engineering and inventive engineering. Because they are monocoque construction and front-wheel-drive, they feel so much and easier to drive than their contemporaries £175.47 of the same era, and a trip in one of these followed by getting behind the wheel of a typical slice of the oulf in abilities

However, if you have the time and money to look after one of these properly, then go for it. There's a lot more to love and get excited over here

CCW BUYER'S GUIDE 35

CITROËN 2CV



Engines

The air cocled flat twin engine is a real delight. Fine evening and supprisingly tough, you can drive a 2CM and and It Is sold it supply mascockine; pleasure, However, It is important that regular oil changes have taken place – Gooff Archer at Northalleston registering, Sovice os consensable, a 3000 mill interval between others and the Northalleston tous control of the care that when the place of the care that the service of the care that used by the car that won the more 2 der ZV Vaco. It is worth heeding. Such care who deal allow the engine to clock up well only 150000 without the medic for rebuild. Check the oil for closeriness and also check under the oil filler cap. Mayo here suggests that the orth as done many host pumping and has possible prover had the chance to warm up. T always check the state of the oil coalet. Says Good Whee stem selds care law with this good look of or a spot of the small even when one state Whee stem selds care law with this good box of for a spot of the small even selds exist.



up. If there are clouds of smoke when the engine is revved, then the engine is clearly in need of a rebuild and your best option will be to find another car. The 2CV engine could never be described as quiet, but it shouldn't have any rattles or whines.

The heating system is a little basic – heat is taken from around the enhaust and cylinder heads and is directed into the car via cardboard ubes. The problem here is that if the cylinder heads are leaking, furmer will get straight into the cabin – which is not good for your health. The heads may just need re-tonquing but usually a skim is required, although some specialists sell copper gaskets to help improve the seal – the engine never had cakes from the factory.

Electronic ignition is a popular accessory as it removes the need to keep removing the engine fan to meddle with the points box (there is no distribution) although Geoff is keen to dispel the myth that access to the points is horrendous: "Getting at the points isn't be black art that rumours say," states Geoff: "They are easier to change than those on an MGBI"

All genuine UK-market 2CVs have the 602cc engine and from 1981, all have front disc brakes. Many older cars have now been imported – the 425cc engine only had 12bhp, making the later 29bhp cars seem like real rockets.

Prices courtesy of ECAS 2C	V Parts Ltd
Service kit	£16.90
Complete exhaust 3 part	
4 part	£80.50
Brake Disc	£33.90 pair
Brake pads	£13.90 set
Alternator (new)	£65.00
Wheel	£46.00
Shock absorbers £10	0.00 car set
Front wing	£79.00
Gearbox, reconditioned	£320.00
Steering rack, reconditioner	d £149.00
Kingpin	£12.00
Set of seat covers	£110.00
Hood from	£110.00
Coil	£32.00

Specification						
Car	2CV	2CV6	Dyane 6			
Year	1949-1954	1981-1990	1978-1983			
Engine size	375cc, flat-twin, ohv	602cc, flat-twin, ohv	602cc, flat-twin, ohv			
BHP/RPM	9bhp @ 3500rpm	29bhp @ 5750rpm	33bhp @ 5750rpm			
Top speed	41mph	71mph	75mph			
0-60mph	No chance!	27.3secs	25secs			
Gearbox	4-speed manual	4-speed manual	4-speed manual			
Consumption	55-65mpg	45-55mpg	45-55mpg			
Suspension	Front: Leading arm, horizontal springing, independent but interconnected					
All models:	Rear: Trailing arm, horizontal springing, independent but interconnected					

The thinking hippy's motor, the famous Tin Snail, has been around for almost 60 years. Behind the jokes, flimsy panels and famous body roll is a car packed with clever engineering and wonderful simplicity.

We let our resident 2CV anorak loose with the Buyer's Guide pen – IAN SEABROOK tells you what to look for

Bodywork

2CVs can not pretty much anywhere but there are few places that you can't investigate with just a casal look. Obvious places include the bonnet hinge, bubbling around the fixed rear side windows, the rear valance isround the rear lights; and sills—both ends can not but the front edge is hidden by the tail end of the front wings. If then pays to turn your attention inside, checking the C-post at the rear, especially around the seatbelt mounting point.

The boot floor is susceptible, as are the rear inner wheelarches. Checking the state of the floors is easy, as you just need to lift up the rubber mast. The front teoboard is a common rotting place and lifting the mats also allows you to inspect the top of the chassis – if you spot or where it meets the lower builchead, then further chassis rot is almost guaranteed.

"Floor and sill not is very common and as it is structural, can be expensive to repair," advises Darren Arthur of Frome 2CV Centre. "Typically, replacing the floors and sills is likely to cost at least £1000, but we take the body off the chassis to do this and discovering further tot is almost quantited." Luckly, repair sections are available—Darren

and his 10 staff are currently flat out, keeping 2CVs on the road.
One area which is hidden is the seam at the top of the rear wings.
This is where the upper body meets the inner wheelarch and it is a notorious rot trap. The first signs of trouble are small bubbles just above the rear wing but by this stage, not is likely to be quite bad.

Happily, repair sections are available for almost the entire bodyshell, so if the price is low and your welding skills are good, do not be put off.

Finally, open the hood and check the top edge of the windscreen panel. Some cars can rot badly here.

Of course, many 2CVs have now been through a chassis change –

aftermarket, galvanised chaosis have been available for many years now and buyers pay estra for the reasourance. Chasis on later cars, especially ones from the 1980s (i.e., the majorily of survivors) were very poorly protected from rust by the factory, so if the chassis on the car you are looking at is original, you need to check it very carefully. Older cars were built out of better steel, and it is not unusual for a 1950s ZCV to still be on the original chassis.

If you are looking at a Dyane much of the above applies, but also ermove the spare wheel – which hides under the bonnet – and check the buildhead as it can not where the wheel sits against it. The front panel and grille attach to a structure that is commonly referred to as the 'goalposts.' This should be checked for not – if it fails while you are driving, the bonnet will sam back into the windscreen – which makes vision a tixt of a problem.

Flectrics

French electrics have never been that hardy, as any modern-day Peugeot owner will led you. To make letings more fun, almost the entire wiring loom on a ZCV has green wiring Luckily, there inn't much to a 2CV loom, although the builet connections can often be a source of angst when it comes to items not working. The headlamps are not three and relay are a vise more off the can have ladgen headlamps the headlamps switch can get very warm without a relay – which at least keeps your fingers warm on a cold day.

The fuel gauge often stops working (the first ZV's only had a fuel dipstick however!) but this is often just a faulty earth. Unfortunately, on later cars, you have to drop the fuel tank to remedy this. Earlier, pre-rear seathelt cars had a lift-up panel under the rear seat to allow you to check the wires with the tank in-situ.

Incidentally, up until 1963, the 2CV didn't have electric windscreen wipers – they were instead driven via the speedometer - which means that they get faster the faster you go.

Suspension and steering

Ah hors' where things get really different. Supermion is via a horborated spring cartiet, one each side, which sits under the floor. The bars link to the suspension arms allowing fully independent, and wey soft, springing, if the car grams while you rock it, the suspension care could probably just of to with a little vegetable of all. a little important to turn them after you knew eyestable of all. a little important to turn them after you knew which must be keep created on the first bars using a knife edge which must be keep creaded—of lot for evidence of this.

Shock absorbers must be in good condition, or the excellent ride and handling will suffer. Bounce the car – it should return to a level state after one or two bounces.

The front hubs use kingpins to allow them to swite Excessive play here is an Afor Editure, although they never fall in a many which could cause suspension collapse. They are easy to change if you have the right follows and to allow almone; Check also for excessive play in the track not ends and the rack kines! A ratting when taking greatle comes at anound form! suggests that track not ends need replacing – the balls often go oval through was:

Interior

Interiors don't get much more basic than this. The grey, checked east covers fitted to the Dolly and Charleston editions wear very badly and disintegrate in UV light. However, seat covers are available so don't be put off by scruffy seats. Refurb kits are available for the seats themselves as they are little more than sheets of canvas attached by rubber hooks to the steel frame. The foam covers then go over the too.

Hoods can shrink with time, which looks awful and makes them difficult to re-fit. Replacements are available in either the original material or in canvas to your own design. Roofs should not leak,

Brakes

Most mechanics are scared of the 3x2 V bankes, but that is a foolish response. The frost breaks are inhousd and partnet, working not the frost drums is a bit of a pain. However, frost discs are much assets—shows a sandher or an where you can inpose the observer. All the same and the same an

The rear brakes are drum and brake linings list a very long time. A more likely problem is that the wheel cylinders can seize — the peckal will feel very hard if this has happened although most people only discover that there is a problem come Mort time. The state of the rear brake pipe may also upset the Molf man. "They are a swine to replace," says Dames, so make sure you check the condition of the pipe. It runs down the rear suspension arm, so checking it is quite easy.

All 2CVs stop very well, despite the lack of a servo. In fact, the brakes are impressive, even by modern standards. The fluid used on disc brake cars is LHM – the life-blood of hydro-pneumatic Citroëns. DOT4 fluid should never be used. Conversely, LHM should never be used in a drum-brake 2CV.

The 2CV is one of the most distinctive cars ever made, yet the vast majority of people know very little about them. The world of inboard brakes (just like a Jaguar E-Type), super-soft suspension (just like a Cadillac) and keen handling (just like a Mini - well, with a little more roll) are lost to most, yet thoroughly enjoyed by their enthusiastic

1936 Citroën is now in the hands of Michelin after development costs for the Traction Avant bankrupt the company. The new MD. Pierre Boulanger, unveils his requirement for a simple, utilitarian machine for the masses

1939 The final prototype is readied for approval. It has water-cooling, a single headlamp and torsion-bar suspension. Pre-production cars are readied for the Paris Salon, but apart from four examples, (three of which remained hidden in a barn until 1998) all were broken up following the declaration of war.

1948 Following further secret development during the Second World War, the 2CV is launched to the world with independent suspension by horizontal coil springs and an air-cooled engine. Production commences the following year and a large waiting list is soon building up.

1953 The 2CV commences production in Slough, complete with shiny chrome bumpers and hubcaps to seduce a wary British public. Sales were never strong and British production ends in 1964, but of the 1245 vehicles produced, 65 were pick-ups - used by the RAF aboard their aircraft carriers.

1954 The 375cc engine is joined by a larger 425cc version, offering an incredible 12bhp.

1958 The fabled 2CV Sahara is launched. It has two engines to give a very simple form of four-wheel drive. Over 1000 were sold.

1960 The "ripple" bonnet is replaced by a fluted design that remains unchanged until the end of production. Slough unveils the Bijou - a 2CV based coupé designed by Peter Kirwan-Taylor, who also styled the Lotus Elite for Colin Chapman, With a top speed of around 40mph, it was not a success and only 211 were built.

1961 The 2CV-based Ami 6 is launched, with a 602cc engine. A sort of mini-DS, it quickly becomes France's best selling car, selling well over a million before the Ami 8 is launched in 1969 with watered-down styling - it will soon have such luxuries as winding windows!

1965 2CV doors become hinged on their leading edge and extra side windows are fitted to improve visibility.

1967 The Dvane is launched. A streamlined 2CV with a hatchback and slightly more performance. Citroën sells over 1.4 million, but it fails to replace the humble Tin Snail - if that was actually the intention. It has such luxuries as doors that don't flap at motorway speeds, a little more

1970 The 2CV becomes available with the 602cc engine for the first time, although a 435cc engine is still available.

1981 Front disc brakes are fitted to the 2CV and the decade sees the Charleston and Dolly special editions become regular production models

1987 Production transfers from Levallois in Paris to Mangualde in Portugal. The British market is treated to the Bamboo special edition. All cars are a shade of green which can only be described as VERY

1990 Production of the 2CV ends. The last example is a grey Charleston - fitting, as when production started, you could buy a 2CV in any colour as long as it was grey.

Insurance avote

power and a practical tailgate

- For a 1986 Citroën 2CV6, valued at £3000, based in Peterborough Fully comp, for a 29-year-old, two years' NCB, 10,000 mile
- limit, only car, kept on driveway, club member £116.15 Fully comp, for a 50-year-old, full NCB, 3000 mile limit, second car, garaged, club member £59

Contacts

- Clubs ■ The Deux Chevaux Club of Great Britain (2CVGB).
- www.2cvgb.co.uk, enquiries@2cvgb.com
- Citroën Car Club, www.citroencarclub.org.uk. members@citroencarclub.org.uk, 07000 248 258 Specialists
- Sutton Cordiner 2CV, Leics, 01509 881804
- Bourne Citroen, Lincs, www.bourne-citroen-centre.co.uk, 01778 394777
- Silly CVs, Kent, www.sillycvs.co.uk, 01634 252987
- The 2CV Workshop, Cornwall, 01579 389181
- Classic Citroen Parts, West Yorks, 0113 2585791 ■ Citroen Classics, Middlesex, www.citroenclassics.co.uk, 07778 58 2522
- 2CV Workshop, Merseyside, ww.2cvworkshop.org.uk, 01704 546260
- ECAS 2CV Parts, Staffs, www.ecas2cvparts.co.uk, 01785 282882 Frome 2CV Centre (servicing and rebuilds). Somerset.
- www.frome2cv.co.uk, 01373 473695 ■ Northallerton Engineering Services (servicing and tuning), North Yorks.
- www.northallerton-engineering-services.co.uk, 01609 771313
- 2CV Stuff (accessories and parts), www.2cvstuff.co.uk
- Matt's Soft Tops, West Sussex, 01243 780132 ■ 2CV City (parts and servicing), Yorks, www.2cvcity.co.uk, 01422 316366
- German, Swedish and French Car parts www.gsfcarparts.com or 0208 917 3800

How much?

Prices for 2CVs have really climbed in recent years and you'll now be faced with having to shell out at least £3000 for one in top condition. Yet this is still less than you'd spend getting someone to restore one - as is proved by the £7000 plus examples frequently seen for sale at some of the specialists. Spend £1000 and you should be getting a solid if tatty car, while even rebuild projects tend to fetch a few hundred pounds these days, when they were hard to give away just a few years ago

While 2CV prices are on the rise, Dyanes are still untouched by the latest increases in price, and even super-mint examples struggle to achieve £2000. Tatty examples can be had for £500 upwards and projects are almost completely devoid of value. It is now forty years since the Dyane was launched, so look out for celebrations this year.

2CV vans remain popular, as do examples of the Mehari - a Dvane but featuring a metal spaceframe, to which ABS plastic panels are attached. Expect to pay £4000 for the best examples of either

The key thing to remember is that even though the 2CV is a simple machine, restoration costs can still run into very high figures - probably higher than you'll be able to sell the car for. Not that it is a problem, for the 2CV is very much a car you restore for love, not economics. The key thing is that all the panels are available, and 2CVGB sells repair sections which are not available on the open market.

Verdict

Okay, so there may be a hint of bias here, but trying a 2CV is definitely recommended. You'll probably hate it at first, but once you've got used to the body roll and the gearchange, this becomes a car you can only love The handling is much better than you'd ever expect - and you soon learn how much fun it is to terrify people with increasing angles of lean

Few classics are as hard-working, practical or as much fun to drive. Few also get guite so much attention from passers by. Some of it is the good kind of attention too! They are surprisingly tough and while you wouldn't want to have an accident in one, the mechanicals will keep going for a very long time if looked after. They are simple, albeit different to work on and while they can rot, you can still get everything you need to keep one going.

If you can live with the noise and occasional tendency to leak water into your shoes, there is no reason why a 2CV cannot be an everyday prospect and indeed, many people own one as their only form of transport. Friends will laugh mercilessly - until you take them out in the car and they'll realise that actually, they haven't smiled so much in a long time.

There is an A-Series Citroën for everyone, so you shouldn't have much trouble finding an example to suit you. With a friendly national club, several specialists and such low running costs, there really is a lot to recommend the Tin Snail.

Buyer's Datafile: Daimler 2.5-litre/V8 250

Often seen as the poor relation of the Mk2 family, the Daimler V8 doesn't deserve to be left in the doldrums while Jaguars steal all the limelight, believes RICHARD GUNN. So, he reckons, you should follow our guide and buy one

por old Jaguar. Off it rushes to buy up one of its main rivals in 1960, and then realises it has suddenly got a whole car company to play with and not that much idea of what to actually do with it. Except get rid of the models that are clashing with its own range, naturally.

One source of embarrassment to Jacquar was the Daimler engine lineup, Not because it wasn't ang good. On the contrary, with the Edward Turner designed 98 engine that powered the Daimler SP250 and, in larger form, the Daimler Majestt Major, Jacquar found itself with something that could seriously humble its own mighty XX. Which helps to explain why when the boys at Bowns Lane finally came up with a big idea for Daimler, it was the lowler 2-5-fere Veta that was utilised. not its powerful but still compact 4561 cc big brother that could have eaten a 3.8-litre XX unit for breakfast and still had room for a 2.4-litre as a light snack over coffee.

Still, the first Jayunised Disinler, which appeared in 1962, was far from an inferior can let fact, purting the Turner VII inside the MAZ bodyshell was actually not insperience on the date and or of sportification, flexibility and references that was somethow tacking from the more facinit and spikes). The opposite models, and handling was improved by the filment of the lighter with the spike of the term of the contract of the

on the bonnet as somewhat more dignified and upper class than the Leaping Cat. The company even bestowed upon the Dame a bit more luxury inside as well, just to reinforce the image that this wasn't just a Jaguar with a crinkle-cut grille and boot handle.

The Daimler stayed in production alongside the MI2 usual 1996, when he new XI6 sweet the entire dol order away, it even fared better in the great cost-cutting cull of 1997, when MI26 became just 240 son 3496, and 1605 their thick bumpers, 50g lights and hide interiors. The Daimler got the lightweight bumpers, and slittle bit of black vinyl in place of some of its cabin wood, but it managed to hang on to its estat lamps and didn't have to suffer the indignity of wannabe leather', alsa Ambla, for passengers to sit on.

Is it a classic?

Frankly, such a question is an insult to the Daimler, Arguably, the V8 is even more of a classic than the Jaquar After all. Daimler is a much older name - it was formed in 1896 while Jaguar as an actual entity only came into being after World War Two made its original SS name a little awkward - and saving you drive a Daimler these days actually has a little more cachet than admitting ownership of a Jaq. Plus the V8 saloon had a higher specification than the Mk2. and was consequently sold at a small premium, and the engine itself is a simply glorious bit of precision engineering wonderfully smooth and effortlessly charismatic in the way not even a XX unit can quite manage. It doesn't leak oil so much either... although that's possibly a cross against its classic credentials, come to think of it.

against its casos colorimats, come to trains or in But lucklift that black, rather oily, mark is cancelled out by the car's appearance. It is one of the great British car designs, a style that is lowed and admired all over the world, and which still informs the Jaguar look today, So, is it a classic? Absolutely, positively, resolutely so.

What to look for?

Owning a Mic2 Jaguar – and therefore, by extension, a Daimler – can be an expensive proposition even at the best of times. At the worst of times..., well, trust us, you don't want to know. Your bank manager won't just grow to have you, he'll probably come around and kill you with his bare hands.

The bodywork is the main thing to be worried about – all those flowing but complex curves can cost a fortune to put right properly – so we'll start with.

RIST-Front wings should be investigated in all the usual places, such as the erase degre, wheelach lips and the headdarms. A particular library has provided the place of the place of the leading happens to which all long he way of the wings top where the joint with the splanh panel losel goes, which allows grot into the inner wings where it can aimst the sills and floopen, which allows grot into the inner wings where it can aimst the sills and floopen, and the place of the place of

ENGINE:

POWER

TORQUE:

TOP SPEED:

FUEL CONSUMPTION:

0.60MPH-

GEARROX-

crossmeher connects to the wings are also unlessed the to travent, as and the bornet hings in which half put the bornet chings is which half put the bornet out of alignment, do be bettern and centres (which is to sundifferent to the control of th

These are very good engines and should last to well over 100,000 miles, assuming due care and attention and oil that has been topped up regularly, as they do like to consume at least a pint every 600 miles on average. So all you really need to look out for are the usual problems of worming noises, excessive blue smoke and overheating, the latter often due to corroded sterways within the alloy cylinder head. GEARBOXES: Borg Warner Type 35 boxes were initially standard, with four-speed manuals becoming an option later on. Both are rugged enough, although listen out for noise, back axle whine and inevitably feel for the synchromesh starting to disappear, usually around second. Overdrive, if fitted, should engage/disengage

quickly and monothly. INTERIOR: Procisite feorgean not should be investigated by lifting the capters, and is most likely to be found the point where the inner sill pins the part, under the wars set and in the sill pins the part, under the wars set and in the footwards. Even up of modely interiors. Clinitel's had even more wood than Japans. and putting all that right plus is remining any selection. If the point of the point 16V capter set and the point 16V capter set and the point 16V capter set the least the publishing even though after the Voicility inferior Japs had downspuded to more Anthlo. so would ree one of awar with a

late model being cheaper to do.

BRAKES: Lack of use doesn't do the brakes any good, with seized calipiers and pictons a possibility. During a test drive, check the car stops cleanly and in a straight line.

What's out there?

The Daimler model didn't have anything

where the like the same diversity as the Jaguar, with its DAMM_ER 2.5-LITRE/V8 250 2544CC V8 1406HP95800RPM 155LB FT93600RPM 115MPH 13.85ECS 17.3MPG

FOUR-SPEED MANUAL OR THREE-SPEED AUTO

three different engine sizes and five types. Besizelly, you give the 2-5 km ½ engine under the bornet, either coupled to a manufact and that was. Filty wally, imagine what one is of three cars would have been like with the 2020bg 4-6 km ½ of the Daimirk Majoric. In 1960, when Jayaur went through the Mild gentre give things with control to make or put on the Daimire also received similar money-aning attention, but still manuged to retain a lot of it special features. Canadally of the Change feom. 25 km be 1981 canadally of the 1981 canadally of the 1981 canadally of the 1981 canadally

Being the exclusive model of the Mil 2 range, there are other ieso Daimles out there then than there are Jaguars. 17,620 of the former were made, while over 100,000 of the latter appeared. But those that have survived are pretty much all in caring and considerate hands now. That's enough to allow you to find the one you really want and not have to compromise.

Specialists

PARTS/SERVICES
Jaguar specialists obviously cater for these cars, and are plentful enough - it seems there's pretty much at least one in every major town. Below are just a few of the very many around

ARTS

- Martin Robey, 024 7638 6903, www.martinrobey.co.uk
- David Manners, 0121 544 4040, www.davidmanners.co.uk ■ SC Parts, 01293 84/200, www.scparts.co ■ Rrian Purses, 0142 115065
- www.brianpurves.co.uk

 Bryan Cates / Classic Car Trim, 01202 593 067

 Chris Morris Parts . 01525 381 063
- Jaguar Daimler Heritage Trust, 024 7640 2121

■ Daimler Enthusiasts Club, 01202 481252 or www.daimlerrlub.co.uk

- Daimler and Lanchester Owners Club, 07000 356285 or www.dloc.org.uk ■ Jaguar Enthusiasts Club, 0117 969 8186 or
- www.jec.org.uk

 Jaguar Drivers Club, 01582 419332 or www.jaguardriver.co.uk

MAGAZINE ■ Jaguar World Monthly, Kelsey Publishing, Tel: 01959 541444 or www.jaguar-world.co.uk

Contact

First Call Renault, Unit 10, Brunel Rd, Manor Trading Estate, South Benfleet, Essex. SS7 4PS, Tel: 01268 566 755

■ Andy Spares: www.andyspares.com,

 ■ Andy Spares: www.andyspares.com, Tel,01189 513513
 ■ Euro Car Parts: www.eurocarparts.com,

Tel, 0208 956 5181

SSF Car Parts, www.gsfcarparts.co.uk,
Tel, 020 8917 3800

The parts situation

As you'd expect with such a popular, gliammous and expensive classic as the Mil. 2, parts manufactures are almost falling over themselves to supply libs and pices for these cars, and the Dairnier version obviously benefits, too Particulary verything shared with the Japaur varients is available, and you shouldn't have any problems finding Vib bits either. The only downside is that anything for these cas can be on the pricery side.

Typical parts prices from David Manners, and include VAT Outer still, £85.39 Front wing assembly, £1214.00 Rear valance, narrow bumper, £119.15 Clutch master cylinder, £116.33 Stainless steel enhaust system, £349.00

What should I pay?

£24.03

Brake pad set.

Brake disc set,

Here's the best bit. The Dairnier comes much cheaper than a 'real' Mik. 2.15 even less expensive than the 2-4 thre lapara ca car it supasses in practically every department. Still that doesn't men there Wis are interpretise to buy because you'll still need to shell out well over ten grand for a good one. But compared with what you'd pay for a 34 or 3.5 Mik. 2, that's practically pocket money. They really are expellent value for money.

Should I buy one?

Yes. Definitely, flight now, in fact, self that misty Mc 2 you've got modeleing away in the gasage and go out and buy the Dainler instead You'll get a lot more for your money, and although won't be quite as fast, you will appreciate the silkiness and put of the VB smoothle under the bonner. And you can spend the carly you've gre left over from off-loading the Jag on maintaining the Dainler properly.

This is a car that has all the style and quality of one of Japana's most iconic creations yet throws a new two cylinders into the mix to create something youly memorabile. It may lack the intense diamatics of the Mk 2 experience, but if presence and beauty is more important to you than sheer muscle, than the Daimler is the thirking nearon's choice of Mk.

2 model

DAIMLER 'DART' SP250



Engines



Edward Turner's V8 unit is a peach of an engine - David Manners is effusive in his praise of it as "Wonderful!" It's known for its ability to last, Assuming due diligence every 6000 miles (the service interval), 100,000 miles should be no problem before major work is needed. "My first one went up to 160,000 miles before I sold it," reports David Manners. "And it only broke down twice, The second time, the AA got it going again within 15 minutes."

However, these engines do like to drink their oil, so be prepared to keep topping up, and with good quality stuff as well. However, if you're getting oil pressure of around 35 to 45psi at 40mph in top gear when warm, then all is (probably) essentially well. That figure can drop to 25psi when idling...but anything less than these numbers, and you could be looking at a rebuild soon. So it's probably best to go

and look for another car. If engine work is required, it's essential that pistons of the correct weight - as stocked by David Manners are used, otherwise work will also be needed to the crankshaft to accommodate the change in mass. Some blue smoke from the exhaust is acceptable - and inevitable - but there shouldn't be too much of it. If there is, it points to a worn valve guides, and will probably be accompanied by noisy tappets. Keep an eye on the temperature gauge, as overheating can occur thanks to coolant leaks or blocked or

corroded waterways within the V8. Under the bonnet, have a look at the fuel lines. Heat from the engine - it's a V8 remember, and they never run cool - can result in the fuel lines cracking, but many will have had more resilient modern items fitted by now.

Fortunately, pretty much everything is available for these cars, thanks to a fair amount of interchangeability with the Mk2-based Daimler saloon. The oil pump and the sump are different though

It is possible to fit the 4.5-litre 220hp version of the V8 inside a Dart...but, boy, it's hairy if you do! And you'll lose the excellent fuel consumption - well, for a V8 at least - too. "I could get 20mpg on the open road in mine and 30mpg around town!" says David.

Specification

Car	Daimler SP250
Year	1959-1964
Engine size	2549cc 4-cyl V8
BHP/RPM	140bhp@5800rpm
Top speed	127mph
0-60mph	9.1secs
Gearbox	4-speed manual/3-speed automatic
Consumption	29.1mpg

Suspension: All models: Front: Independent by wishbones, coil springs, hydraulic dampers. Rear: Live axle, half-elliptic leaf springs, hydraulic dampers

Brakes

The brakes - all round discs incidentally - don't have too much of a task to do, thanks to the Dart's lightweight construction. That means they rarely cause problems. However, what can play up is the fly-off handbrake, which can either wear or seize up. Either way, it won't be effective enough to get through an MoT. Brake lines can be prone to corrosion too. most notably the one that runs from front to rear. However, almost as if jealous of all the attention this main trouble spot gets, the one running alongside the rear axle also rots too. Upgrading to copper items is the obvious fix - a full set for a car with a servo costs £51.05, while for one without is £47.18 and at those sort of prices, likely to have been done already on many cars.

With little experience in sportscar production, it's small wonder that Daimler's SP250 turned out to be a little bit of an oddball...although a glorious one at that, RICHARD GUNN looks at buying the glassfibre creation with the great V8 engine, with advice from specialist David Manners

Suspension

The original suspension schedule is for greasing every thousand miles...which is why many owners have taken the polyurethane bush path, meaning that the interval can go to every 5000 or 6000 instead. If, when you're testing the car, there's a knocking from the front suspension, then the bottom trunnions are on their way out... and it points to the car's maintenance routine not having been adhered to in the past.

Underbody damage can be quite common, thanks to the low ride height of the Dart, coupled with the modern council obsession with speed humps. The rear springs can flatten out, and the steering box is usually a prime spot for taking knocks from below. It's worth taking a ruler or tape measure along to see how much clearance there is between the chassis and the ground. It should be about six inches. Anything lower, and the car's underneath is at risk.

If the car has its original steel wheels on, remove the hubcaps and look at the metal by the wheel nuts. Over-tightening often results in metal fatigue, and if the cracks get too big, the whole wheel can fall off. This is another one of those things that you really don't want to have happen when you're on the move. Many owners just opt for wires (£184.48 including VAT from David Manners)...and the good news is that Triumph TR4, 5 and 6 items fit fine. However, the wire wheels are not without their problems, as worn splines and hubs cause play. Jack the car up and wiggle the wheels to see how much play there is...something that also works with steel wheels that have cracks around the bolt holes.

Expect heavy steering, but if it's too arduous, suspect the steering box is worn, especially if a real effort is needed at lower speeds. Check the oil level first though, just to make sure that it just hasn't been allowed to run low.

Trim

Pretty much everything is available trim-wise, whether inside or out. However. you may come across some cars without bumpers. Make sure



as replacements are very costly, at over £1100. They were only ever optional extras on A-spec cars, and because, when they do got rusty, there's such a lot of expense to put them right, owners may well have had them taken off altogether.

Interiors were leather, and although there may not be much to them, anything plush coming from a cow automatically costs a lot to put right properly. Tatty cockpit? Think about spending at least £2000 to have it re-trimmed. And then some...probably.

Gearbox/back axle

The four-speed gearbox is derived from the Triumph TR unit, albeit toughened up to cope with a V8 engine. Although some parts are getting scarce, fortunately, there's still quite a bit of Daimler/Triumph interchangeability. However, warns David Manners, "It does need an expert to do it though."

Common faults are a stripped first gear (something which can be put right with TR bits) and synchromesh that is getting well past its best. so check to see how the transmission behaves on any test drive. You may find some cars have a Laycock overdrive fitted. It's not that difficult to do, and it does make them somewhat more relaxed on long trips. Something else you keep an eve - well, more of a feel really - out for is slipping clutches. They don't stand up quite so well to the V8 engine as the rest of the transmission.

From 1961, three-speed Borg Warner automatic gearboxes were fitted on some cars, but were never popular - this is a small twoseater sportscar after all - and so few remain today. However, if you do come across one, expect few problems, especially if the oil is clean and full to the correct level.

A major foible of A-spec cars was the weak back axle, with the crownwheel and pinion assembly prone to wearing out. However, there aren't likely to be many of these cars left over now with their original parts still in situ. You can tell an early differential by its two plugs...later variants have just the one Look at the axle tubes. If these can work loose from their mountings, not something you want to have happen while the car is

in motion. Chassis

While the bodywork may be immune to conventional corrosion, the chassis isn't. So it's guite vital to get underneath and search for rust. While you should just look everywhere as a matter of course, start your quest with the front tubular crossmember and turrets for the front suspension. These handily fill up with water. As with most classics, the rear spring mountings are a vulnerable spot. However, the problem is worse than with many other historic cars, as putting things right actually means cutting through the floor. Lower wishbone mounting brackets can crack, and the chassis members behind the rear axle also corrode, in common with the side members. If these are too far gone, the chassis will become very delicate...and this can lead to such body flexing that the doors actually fly open. Great if you're not wearing a seatbelt and leaning into a corner at the time...

On the B and C-spec cars, a reinforcing beam was added under the doors, and the B-post was made more robust. Sounds like good news? Well, actually, no, it isn't. Because these were just add-on parts, the metal wasn't as good a quality as the rest of the chassis, and thus corrosion is even more of a likelihood.

Parts prices

All parts from David Manners Ltd and include VAT			
Front bumper, exchange	£1168.10		
Rear bumper, exchange	£1327.46		
Chassis sill	£77.90		
Front wing	£149.00		
Bulkhead assembly	£289.00		
Tonneau cover	£178.67		

Hood
Master cylinder
Radiator, exchange
Starter motor, reconditioned
Plug leads set
Engine gasket set
Cylinder head eyrhange

	£314.22	Water pump, exchange	£151.1
	£29.00	Oil pump, exchange	£468.8
	£381.50	Stainless steel exhaust system	£398.9
đ	£135.13	Fuel pump	£141.7
	£52.93	Track rod end, pair	£21.1
	£58.75	Front hub, used	£59.9
	£428.88	Lower front trunnion	



1958 Daimler – purveyor of fine carriages to the well-heeled – decides to go all radical and unleash its vision of a small two seater sportscar upon the world. Slight problem though, ...mong's tight, so the company decides to make the car out of glassifize, with every intention of constructing metal versions later on if it becomes a success. Dever comes from Edward Tumer's new V8 engine, in 2548cc

1999 With the Datt - are Dainfer has named the car - subset lists of production the official bursh chornes in the New York Motor Store in production. The official bursh chornes is the New York Motor Store in April, where the new Dainfer picks up the unofficial award for the upset of the Whitch has the early an applicious start. And thereis more to come. Chrysler - which naturally happens to be at the show points out in the Tot one of 16 Dodge redemarks, and If Dainfer observed to the total product of the total to the present out that the name is the Dainfer of the Dainf

1960 The SP250 having failed to stem Daimler's ailing finances, Jaguar takes over the marque. Lofty England, Jaguar's expert in all things sporty, takes one look at the car and presses for it to be dropped, but fortunately is ignored. Instead, effort is put into improving the somewhat filmsy construction.

1961 The 8-type: Dainines 97250 emerges, with Jaquars slightly better knowledge of sportage production resulting in several improvements. For starters, there's a bulker chansis to help countered improvements. For starters, there's a bulker chansis to help countered control of the starters. The starters are starter careful of the starter of the starter than the starter of the sta

1962 The launch of Jaguar's E-type puts the future of the SP250 in serious doubt, as it's seen as direct competition. And Jaguar doesn't exactly want an internal rival for its swanky new sportscar...

1963 Time for the C-spec version of the SP250, complete with extra equipment in the form of – now, don't get too excited – a heater/ demister and a cigarette lighter. Work starts on the replacement for the SP250, dubbed the SP252. But it falls to go anywhere, possibly because it looks rather a lot like an MGB...

1964 The SP250 goes out of production. The original idea was that the 2500 models would be sold a year... but after five years, a mere 2654 have been constructed. The 2½-litre V8 engine at least lives on until 1969 in the Daimler-badged version of the MIK2 saloon.



Contacts

Clubs ■ Daimler SP250 Owners Club. tel: 01322 522958 or

- mysite.wanadoo-members.co.uk/Daimler_SP250_OC/index.jhtml
- Daimler Enthusiasts Club, tel: 01760 721658 or www.daimlerclub.co.uk
- Daimler & Lanchester Owners Club, tel: 07000 356285 or www.dloc.org.uk

Specialists

- David Manners, West Midlands. Tel: 0121 544 4040 or www.davidmanners.co.uk
- Chris Morris, Beds. Tel: 01525 381063.
 Barry Thorne, Surrey, Tel: 07885 882416
 - Barry Thorne, Surrey. Tel: 07885 882416
 Autotec, Berks. Tel: 01189 340927 or www.autotecsp250.co.uk
 - Autotec, Berks. Tel: 01189 340927 or www.autotecsp250.co.t
 Brian Purves. West Sussex. Tel: 01342 315065
 - Hall & Clarke Insurance (DLOC recommended). Tel: 08709 906060

How much?

Forget the old days, when nobody much seemed to want a Daimler SP250. Time has been kind to the looks - they're actually rather handsome and distinctive beasts now - and the combination of a V8 engine with lightweight glassfibre bodywork results in a classic with superb performance that handles tremendously and won't rust. Well, at least where it is too noticeable to the outside world. Suffice to say, people do want these cars now. And they're prepared to pay for them as well. Don't be surprised to find the very best examples up around the £20,000 mark or beyond...which is quite a lot when you consider that the Daimler saloons which use the same engine fall £5000 to £6000 below this level. More realistically, good SP250s can be obtained in exchange for about £15,000 to £10,000 of your hard-earned cash. And if you fancy a challenge. then five grand should be enough to net you a basketcase Dart... although don't dismiss how much work you'll have to do. It'll be a lot. And it won't be cheap either, despite practically everything being available!

Verdi

Just in case it hasn't become apparent already, we really rather like the Dainier SP250. It's eccentric, it stands out from the crowd, it's got one of the all-time great Vise it's quite an easy car to look after, and the handling and performance are very good for a sportscar of this era. In short, it's tremendous fun. Which is what a classic should be all about.

There's little price difference between the various specs of Dart, so our exammendation is to just go for the latest one you can find, as it's the C-spec model that had all the toys plus the extra strength in its chassis that had been engineered in from the B-spec incarnation. And when you've opt quite a pricy justifier body that you'd prefer not to flex and crack as you enthusiastically attack corners, that extra robustness is quiet important.

We'll leave the last word to our expert David Manners. "These are still my favourite cars. The essential thing is to just buy the best you can. Then get the top down, head off down the road, and enjoy yourself!"

Insurance quote

For a 1963 Daimler Dart SP250, valued at £14,000, based in

Peterborough

■ Fully comp, £309.75 for a 29-year-old, two years' NCB, 10,000 miles,

only car, kept on driveway, club member

Fully comp, £78.75 for a 50-year-old, full NCB, 3000 miles, second car, garaged, club member

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FERRARI 348



Engines

Despite their reputation for volenshilling, the V8 engines are harbot recough if they be ben looked after. So check that the cambeds have been changed, every two years on pre 92 crax, and three years thereafter, to be on the sale side (despite) Ferraits' advice that they should be fine 6 or four). You don't want to contemplate the bill for an engine rebuild on one of these beauties. Bear in mind that shad are due a major engine out service every 3,0000 miles, something likely to cost around 5,5000, and thereof jet at a scary to think about if the car you'le looking at a speproaching such an occasion. Cook at the fell pelies where they comect up with things. Overcook at the fell pelies where they comect up with things. Overcook at the fell pelies where they comect up with things. Overcook and fuel spepped around a hot Ferrait engine bay is fer from desirable.

While a little bit of haze from the exhausts is normal, white or blue smoke with the engine running is something to be very concerned about. 5c oncerned, in fact, that you should walk away and look elsewhere. White smoke points to a blown head gasket, blue smoke is something serious worn inside. Either way – the word 'no' springs immediately to mind.

The fuel injection system used on these cars is Bosch Motronic Injection. While it's clary in it so war right (although earlier cars, with the M2.5 system, could be proone to fuelling problems, enadicated by the later M2.7 units), the sensors can be dodgy, resulting in warning lights on the dashboard. If there isn't any other evidence to suggest anything wrong, then suspect dirty or loose connections to be the culprit, or a sensor itself having onliven up the dpost.

Expert

"The 348 was handicapped by having to replace the 308 and 328, much-loved Ferraris that able ear around for 14 years, and it also had the engine mounted longitudinally, which affected the handling. But the company was able to learn a lot from the car, and managed to improve it so that post-1993 cars were a lot better than the earlier ones... and led ultimately to the 355.

"However, the early cars, if well-maintained, are good value and a great option for those who don't want the classic shape of the 328,

but don't want to spend the extra money that a later car can command. People like he because of the Text all 800s a looks. 130k can get you a fantastic car, and no depreciation, just running costs.

"But, on average, those running costs will be about £4000 a year, People will disagree with that – and say you can just take the car down to your local corner garage to have the oil changed – but if for our really want to look after one of these, that's what you need to

Specification

Car	Ferrari 348 tb/ts	Ferrari 348 GTB/GTS	Ferrari 348 Spider
Year	1989-1993	1993-1994	1993-1995
Engine size	All models: 3405cc V8		
BHP/RPM	300bhp@7000rpm	320bhp@7000rpm	300bhp@7000rpm
Top speed	171mph	178mph	175mph
0-60mph	5.5secs	5.4secs	5.5secs
Gearbox:	Five-speed manual		
Consumption	19.2mpg	19mpg	19.8mpg

Suspension: All models: Front: Independent by double wishbones, shock absorbers, coil springs and anti-roll bar.

Rear: Independent by double wishbones, shock absorbers, coil

spend."

springs and anti-roll bar

Parts prices

Parts prices	
Super Sports exhaust box, TB	or TS£1290.00
Cat replacement pipes	£340.00
Tyre, Bridgestone	£120.00
Front grille, new	£350.00
Rear grille	£350.00
Steering rack, recon, exch	£350.00
Battery tray	£145.00
Floor mats, pair	£155.00
Air conditioning/heater	
control panel	£275.00
Fuel filter	£27.50
Prices from QV	
6000-mile service	£522.00

What greater accolade could there be for a Ferrari than that it is often referred to as Maranello's own version of the Toyota MR27 The 348 may be more expensive than the Japanese car – and not quite as reliable – but it does represent a good way to start your own Ferrai party, believes RICHARD GUNN

Gearbox

Don't expect smooth changes until the oil has warmed up properly something these can have in common with an earlier great classic. the Austin Masi. In fact, it best to have leave the car running for about the 40 to 1 minutes before going for second, otherwise genetics life can be shortened. However, once things are at an enc operating the can be shortened. However, once things are at an enc operating the can be shortened. However, once things are at an enc operating the proper than the post building that the first skill, and enjoyable. If we have the same than the calle goar linkage doesn't need assuming the worst, check that the calle goar linkage doesn't need adjusting 1, to go so not frue quite easily.

Bodywork

Rust shouldn't be an issue, although if you do find some, it points more to shoddy repair work, which is one of the things to be wary of with these cars. Because it costs a lot of money to put right anything on these cars, repairs from small crunches are sometimes done on the cheap. What you should neally be looking out for is unevenly

fitting panels or differences in paint shade or finish, all possible pointers towards bigger shunts in the past having been put right, but not necessarily that well. You should keep an eve out for damaged air dams and rear

valances, as these cars don't take kindly to things like speed bumps.

On the Spiders, don't forget the condition of the hood. They're
durable enough, but lack of use can make the frame stiff, which can
then place extra stresses on the material when the hood is finally
used. Holes and splits aren't great, naturally. An option on the 348
Spider was a leather tonneau cover and it's a good bit of equipment

On the Targa-roofed cars, look for evidence of leaks from the corners, something that is quite common as cars get older.

Suspension

As a Ferrari, these cars should offer pinpoint handling, if they don't then something is amis somewhere – and it's probably down to bushes, susally the wishbore ones. Many of the moving parts in the suspension should be replaced around the 50,000 mile mark, so check paperwork for evidence that this has been done. Revised suspension and springs should have been fitted to 1980/1900 models; look for evidence of this have been carried out.

After this, the modification was standard.

Check the condition of the tyres – they're expensive to replace, and alignment problems will cause them to wear quickly.

Interior

Because these cars aren't that old, there should be few problems with the interior itself - suffice to say, having to replace anything will take rather a lot more out of your wallet than most other secondhand cars will. However, do peruse the rubberised material on the centre console, which deteriorates with ace.

The electrical systems on these cars aren't best-known for their instability, five, these may be expensive from cybinders, but they're still tablas after all. So check every bit of equipment you can, the second of the control of th

Having gone through the electrics, now try the air conditioning and heating – both of which have been know to fail.

The bonnet and boot are released by pulls in the cabin... which is all very well, until the cables stretch and both can be difficult to open. Try them to make sure.

Brakes

The brakes don't have any Achiller' heels aside from the usual seized calipers that are common on most cars of this type that don't get used very often. So when you're out on your test drive, brake sharply just to check the car doesn't go diving off to one side as you do so.

Underneath

The chassis is very strong, and more importantly, shouldn't be rusty thanks to the use of galvanised steel. However, check for any signs of kinks, especially towards the front of the car, that indicate previous accident damage. However, you won't be able to see that much, thanks to the flat composite panel mounted underneath to help with airflow – which can get easily damaged on rough roads.

Have a look around where the speedometer connects to the transade. Are there any scratches, or is the metal cleaner around here than the rest of the underneath? If it is, it could point to the drive having been disconnected to make the car appear as if it's done less miles than it actually has. It's unlikely... but you

Driving

It's little surprise that the 348 handles like the true sportscar that it is. After all, it is a modern-ish Ferrari with a mid-mounted V8 engine doing the considerable honours. How could it not behave magnificently through corners?

Actually, push a 348 hard and it can be very twitchy on the limit. But bear in mind where that limit is — well over twice as fast a you're legally allowed to drive no British made. To really upera a 484, you need to take it out on the track. The valley load read peight at properly, is something most owners will never do. For those of us content to enjoy the occasional blast on public tarmac, there will be little to fault about the way as 348 behaves.

HISTORY

1979 According to popular myth, thoughts about the car that will eventually become the Ferrari 348 begin 10 years before it ultimately appears, after criticism of the then-current 308 model. Engineers set about making a car that will be wider, taller, shorter and heavier than the 308 and its almost identical 328 successor. Oh yes... and it will be faster too

1989 The new Ferrari 348 emerges at the Frankfurt Motor Show. with the only traces of the old 328 being the V8 engine... which is longitudinally positioned but substantially modified so the gearbox can be mounted transversely with it to improve handling. Capacity rises to 340Scc, while power is a healthy 296bhp. Initial models are the 348 tb (transversale Berlinetta - the coupe) and the 348 ts (the Spider - a Targa-roofed version of the coupe). In looks, the 348 bears some resemblance to its bigger brother, the Testa Rossa, thanks to its rida etrakar

1990 A new type of shock absorber, with different mounting points, is introduced to overcome high speed stability problems.

1991 The battery is moved from the engine bay to the front of the car and placed under a cover behind the left headlamp. Which is fascinating. Far more interesting is the Zagato Elaborazione, a reskinned 348 created by Carozzeria Zagato. It has a more rounded shape, sunken headlamps, a roof with two bulges in it for passengers. a transparent engine cover, ducts instead of side strakes, suede interior and rear view TV screens. Sounds simply divine, doesn't it? Zagato intends to build 22, but doesn't quite manage to achieve that

1993 For the USA market, the tb and the ts are replaced by the limited edition Serie Speciales and the Spider. Only 100 are built of the former, with 12bhp more power, better handling and a few styling tweaks, while the latter is the first true two seater convertible Ferrari since the Seventies, with a manually-operated hood. Also this year, Ferrari introduces its one marque Challenge racing series and offers a factory kit to help convert the 348 to racing spec - although there are no actual engine modifications. However, once the car has been modified, it's illegal to drive on the road again. And it has to wear a sticker to stay so, just in case anybody forgets... A more street-friendly version option is the Competizione, which is based on the Challenge. Only 50 are made, eight of which are right-handdrive. Over in Europe, the tb and ts continue much as before, albeit now named the GTB and GTS and with 320bhp, but the Spider is also launched. The UK also gets its own version of the Serie Speciale, known as the Maranello Speciale. It turns out to be even faster than the American car.

1994 The GTS and GTB go out of production.

1995 The last remaining 348 variant - the Spider - is dropped, with the range superseded by the F355. Around 9000 have been built in total.



Insurance quote

For a £20,000 1990 Ferrari 348 tb. no modifications, based in Peterborough

- Fully comp. £100 excess: £769.00 for a 29-year-old, two year's NCB, clean licence, 10,000 miles, only car, kept on driveway, club membe ■ Fully comp, £100 excess: £444.15 for a 50-year old, two year's NCB, clean
- licence, 3000 miles, second car, garaged, club member Quotes from Firebond (0870 111 0464 or www.firebond.co.uk)

Contacts

Clubs

■ The Ferrari Owners Club UK, c/o Membership Secretary, PO Box 111, Snettisham.

■ King's Lynn, Norfolk PE31 7TF. Website: www.ferrariownersclub.co.uk

Specialists

- The Ferrari Centre, Kent. Tel: 07000 360355 or www. theferraricentre.co.uk
- QV, Berks. Tel: 01344 622011 or www.hamletcq.co.uk/qv

- Rardley Motors, Surrey, GU26 6LB, Tel: 01428 606606 or www. rardleymotors.com
- DK Engineering, Hertfordshire, WD18 7GL, Tel: 01932 255246 or www.dkeng.com
- Maranello Concessionaires, Surrey, TW20 8RJ, Tel: 01784 436222 or www.ferrarinarts.co.uk
- Superformance, Essex, Tel: 020 8500 7127 or
- www.superformance.co.uk Ferrari Spares (new and secondhand), Essex, Tel: 01206 251475 or
- www.ferrarispares.com Rosso Corsa, London, Tel: 07005 980598
- Talacrest Limited, Surrey. Tel: 01784 439797 or www.talacrest.com
- Kent High Performance Cars, Kent. Tel: 01622 750246 or www.theferraricentre.co.uk
- DK Engineering, Herts. Tel: 01932 255246 or www.dkeng.com ■ Forza 288. Hants. Tel: 01425 273682 or www.forza288.com
- Nick Cartright Specialist Car Restorations, Derbyshire. Tel: 01629 56999 or www.nickcartwright.co.uk
- Oakfields, Hants. Tel: 01256 760256 or www.oakfields.com

Market Trends

Nothing with the Italian prancing horse badge stuck on it ever comes cheap... unless, it's a keyring. If you want the car that gets started by the key that goes on that keyring... well, be prepared to pay!

Compared to how much they cost when new, these cars have come down a long way in price, but they have yet to inhabit the zone labelled affordable. And, frankly, they probably never will. The figures listed below are probably about as low as these cars are ever likely to get, now that they've been out of production for over 10 years, and soon, we suspect values will start to creep back up again as people realise how good these sportscars are, representing as they do the first of the modern 'small' Ferraris, with fewer of the usual issues you get with earlier pillars of the

Expect small variations based on age, type and whether they're right or left-hand-drive (for cars that have been re-imported). Naturally, those owners selling Targa or Spider open air types will expect a bit more of the folding stuff than if they were passing on something with a tin roof.

It's tempting to just go out and buy the first shiny red Ferrari 348 you come across that looks half decent. Don't. Be wary. Make sure you're buying a good one, and if that means paying a specialist to check over what you're looking at, then so be it. It's better to pay now then pay later, when the sums have the potential to be a lot higher Just because these Ferraris are now around the same price as a brand

new Golf GTI doesn't mean you can actually afford one. You have to dial in the running costs as well. These are not classics you can run on a budget, and if you try to do that, you'll only end up paying more in the long term

Have we put you off yet? No. Well, in that case, one of these starter Ferraris could well be for you. Anything with a Prancing Horse badge on it is special, and the 348 offers more performance and handling prowess than most of us will ever be able to fully appreciate. Combined those factors with the sleek looks, and you'll never go unnoticed again in one of these.

Buver's Datafile: Dino 206GT/246GT

The Dino was the first baby Ferrari, and, since its launch in 1967 has been regarded as one of the company's most beautiful cars. Despite it never having actually worn the prancing horse badge on its nose, KEITH ADAMS explains that it still has a Ferrari-like temperament - so take care when buying one

amed after Enzo Ferrari's late son, the Dino was created to move Ferrari into a different, more accessible, sector of the market. In the mid-Sixties, Ferrari was facing a rule change in Formula 2 racing, which ensured that all racing engines needed to be built in volumes of over 500. As Ferrari wanted to carry on using its four-cam V6 'Dino' engine (Enzo's son played a small role in its development), the Commendatore planned a road car that used it. He also asked Fiat if it wanted to produce a car to be powered by the engine.

In 1965, the foundations for the 206GT were laid when Pininfarina showed its Dino Berlinetta Speciale Concept at the 1965 Paris Motor Show - whetting the appetite of Ferrari enthusiasts everywhere. Two years later, the road car duly appeared, and powered by the 1987cc V6 transverse mid-mounted engine, it was a highly desirable package. In many ways it set the template for the next generation of mid-engined Ferrari supercars, which had been left behind by the technically advanced new Lamborghin

Interestingly, it was badged as a Dino 206GT (and wore no Ferrari badges), and the idea was for the new margue name to be developed with the launch of the impending Fiat Dino. However, Fiat decided to put its own badges on its gorgeous sportscar, and the Ferrari-produced car became the only Dino you could buy

Between 1967 and 1974, the Dino 206GT, GTS and 246GT/GTS established themselves as perfect baby Ferraris, and set the template for the upcoming generations of entry-level models for decades to come.

Is it a classic? Now that's a silly question: Yes, the 206 and 246GT are the personification of the perfect classic sportscars Small. Ethe heautiful to look at and sounding wonderful, there's no real weak links, Being. built by Ferrari means there are the same issues you get with the bigger cars, but - again - that just adds to the all-round appeal of these cars.

Styled by Pininfarina, the GT and GTS started a styling theme that lasted into the 21st century, and only really ended when the F355. The current barometer to the car's classic status has to be its price at auction, and all Dinos have been consistently rising during the past five years. Strong demand and desirability count for a lot - and the Dino has it in snade loads.

What's out there?

Essentially, there are two body styles, and two engines to choose from, so you're not going to need an encyclopaedic knowledge of Ferrari production history to get on terms with the Dino range. The choice was simple - the 206 (2.0-litre) and 246 (2.4-litre), and you could chose from the gargeous coupé version or its Targatopped cousin. Either way, you'll not go far wrong - although it's fair to say that you'll struggle to find one of the smaller-engined cars in the UK.

What to look for?

ENGINE AND GEARBOX: The engine black and bottom end are very tough, and the basic reliability is excellent as long as it receives regular specialist attention. However, if there's any sign of smoke, budget for a new set of pistons. Look for good oil pressure and listen closely for too end noise - out- of-adjustment tappets can lead to camshaft failure. Inlet and exhaust valves need close monitoring. and a top-end rebuild will cost about £1900.

original steel featured

usual standard of Italian rust-proofing, so any un-restored cars will need close attention as they can corrode almost anywhere. All bodywork below the waistline is at risk, especially the sills. which are made up of an inner- and outer pressing, with strengthening panel. That's an open invitation for tin worm. Wings are also a weak spot - especially the doubleskinned rears. Aluminium panels can suffer from electrolytic corrosion where they meet steel, so - again - be very aware when checking over a potential car. INTERIOR: The original plastic seat trim will probably be little more than a distant memory now, so don't worry if the leatherlined car you're looking at doesn't tally with the production date Most owners.

upgraded CHASSIS: The Dino's strength comes from its steel chassis on its conviition is absolutely essential to the car's well-being. Although it seems a lot more rust resistant than the body there are still known weak spots - most notably the oval sections which run alongside the sills. Because they're not completely sealed and carry water nines and electrical cables they have probably let some water in at some point... Corrasion is the result, so look

BRAKES: Handbrake ratchets frequently fail, and if the car is lightly used, the caliners may well have seized. If the pistons have corroded to nothing, there's a standard for to replace them with stainless

TRANSMISSION: All Dinos are fitted with a strong and reliable five-speed gearbox. which is renowned for long life. If it feels sticky or baulky when old, don't worry unduly, as they all do this - and only when the box is warm do you get a sweet change. Worn synchromesh rings are a sure sign of abuse, so if you can't change gear without

the gearbox is

main area of concern will be worn-out dampers or wishbone bushes. Lightly used cars might not give their owners early warnings, so make sure all is well on the The parts situation

through, factor in some specialist

attention when making your bid. SUSPENSION AND STEERING-Both

are reasonably trouble-free, and you

Being a Ferrari, the parts are all readily available through specialists, and the owner's club. What isn't available can be

rebuilt - at a price... Broke pads £59 front or read Front discs. Rear discs, £149 £465 £294

Water pump Exhaust (stainless steel), £1000-£1200 Specialists

- Hollingworth at Ombersley, 01905 622127. www.midland-ferrari.co.uk AE Performance Engineering, 01565
- Damax, near Silverstone, 01280
 - 851004, www.damax.co.uk Nick Cartwright Specialist Cars. 01629 56999, www.nickcartwright.com
- JMH Automotive Cheshire. www.j-m-h.co.uk ■ DK Engineering, Watford, 01923
- 255246, www.dkeng.co.uk VFROX Italian Performance Cars. Heathrow, 020 8756 0066, www.user@farrari.his

Clubs

Ferrari Owners Club, Membership Secretary, PO Box 111, Snettisham, King's Lynn, Norfolk, PE31 7TF, www. ferrariownersclub.co.uk

What should I pay?

Summissionally the more exclusive 206GT isn't as sought after as the 246, and that means that you'll pay less for one of these. Put it this way, none of these cars are cheap. though and the roughest cars are still selling for over £16,000 - and obviously, all the earlier cars are left-hand drive only The later 246s are much more

expensive, and although the lowliest cars still cost upwards of £20,000. The top cars are now selling in excess of £65,000 - and that can easily be beaten for the truly mint cars (of which there are a few). The bottom line is that once you get northwards of £35,000 then you'll be in the pound seats. Of course, you could go for a 309GTB

or 308GT4 if that's too rich for your blood especially at current favourable prices

Should I buy one?

Of course: There's no way that you're not going to buy one if you have your heart set on one, and you have the means. Obviously, being of the same stock as the bigge Ferraris, these cars will demand plenty of attention - so the purchase cost is going to

be just the beginning The bottom line is this: if you can afford to buy - and run - one of these cars, and you choose carefully, the benefits of supercar ownership may well outweigh the financial burden. After all, if it costs £1000 a year to service it, that's still a small price to pay for all the pleasures that will be

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FORD CORTINA MK3



Engines



Pintos and Kents were the original fitment, although all manner of engines have been fitted since – the engine bay is very capacious, allowing the fitment of V6 and even V8 engines for those with a penchant for performance. For the purists, the Kent unit was used in 13 and 1.6 forms while the Pinto was used in the sportler 1600GT and GXL and in the larger 2000 capacity for the range-toppers. From 1974, all 1600s used Pinto power.

Key things to check for are blue smoke from the exhaust and noisy valvegear which could be worn rockers, cam followers or the camshaft itself. Slack timing chains can rattle when they are worn, signalling that their replacement should rise to the too of the priority list.

With Pintos, a slight knock from the top of the engine suggests that the overhead camshaft is worn. There is a timing belt on this engine of course, which ideally should be changed every 25,000 miles. On low-mileage cars, changing it every five years is wise, as time can degrade the rubber belt too.

Both engines are well known amongst the tuning society, so upgrades are commonplace and there's no guarantee that a 1300L will still have a 1.3 Kent unit under the bonnet. Make sure that you know what you are getting.

Specification

Car	1300L	1600XL	2000E		
Year	1970-1977	1970-1977	1973-1977		
Engine	1296cc 4-cylinder OHV	1599cc 4-cylinder OHV	1993cc 4-cylinder OHC		
BHP/RPM	57@5500	68@5200	98@5700		
Top Speed	87mph	93mph	105mph		
Gearbox	4-speed manual	4-speed manual	4-speed manual/ 3-speed automatic		
Consumption	24-28mpg	24-28mpg	24-28mpg		
Suspension					

All models: Front: Double-wishbone, coil springs, telescopic shock absorbers.

Rear: Trailing arm independent, coil springs, telescopic shock absorbers.

Parts prices

Parts prices are courtery of Speedy Spares and do not include WAT.

Parks arice and the Spares of Spares Spares of Spares Spares

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Bodywork

Deperhans due thin seve made of chaps treel but that doesn't make them utilibits, just means you have to keep an eye out for rassty corrosion. You won't be surprised to hear that sills are crucial to the streety of the monocopes to check them with care as well as the jucking points; seattleff mounting points and floors. Rear wheel active of them of the control of the street of

The bulkhead can also corrode further up and the slam panel at the front of the engine bay can also go. The crossmember beneath the radiator is also well worth closer examination. The front wings can suffer on their inner and outer surfaces. Obvious spots are the leading edge of the wing and along the top mounting, but have a good look inside the wheelarch and down the sides of the inner

wings for signs of trouble.

Door bottom trouble is easily spotted and the inner and outer rear quarter panels are susceptible. Don't forget to get the boot

open and check the spare wheel well also, especially around the fuel filler neck. Keep an eye out for bodged repairs and

questionable modifications. Trim and body panels are getting harder to find now so if considering a project, don't expect to be able to nip out to a motor factors for new chrome

wheelarches on your 2000E. Many Cortinas had a vinyl roof so check this for signs of cracking





Transmission

Gearboxes and rear axles tend to be fairly hardy but do check for excessive noise which is an indication that all is not well. You may also find issue with changing gear, especially when cold, Best not to let the owner drive first as it may be a ploy to get the gearbox warmed up before you have a go, Jumping out of gener can also be an issue but at least obtaining another out of gener can also be an issue but at least obtaining another either. Halfs shafts can go = 65.000 miles seems to be the time that they start playing up.

Suspension and steering

Ford waved goodbye to Mac/herson strust for the first time since 1950 on a new model. Double withbones were first interest although handling was never quite up to the level that perhaps it should have been. At least it wasn't as applials the MAVI ZephyrIZodiac. Check for clonks suggesting wear in the warious bushes, although any noise should be invested as it might be caused by the subframe mounting holes being wom – a complicated and expensive repair.

If the rear end feels loose, it could well be the void bushes

- the bane of some Cortina owners' lives. It's an easy repair but
especially prevalent in examples that have been lowered which
can cause short bush life. Worn shock absorbers won't help
the handling situation either however, so a quick bounce test
is useful.

Rack-and-pinion steering means that twifling the wheel (sometimes trimmed in delicious fake wood) should result in an accurate change of direction. Any vagueness suggests free play somewhere in the system so if you find any, ask an assistant to wiggle the steering wheel while you try to find where that play is.

Interior & Electrics

Pen-1974, the interior has an unusual "double-hoop" design to the dashboard, not unilike a Chevorite Cnvette – abbit using cheap plastic and hideous Formica on 'posher' models. Early low-spec cars even had non-remote gearchanges and bench seats but these are now very rare. Trim levels are baffling but even if you do know your GXI. From your I, the disparate nature of so many different variants make finding missing bits a real challenge, so condition is important.

There's lots of space inside a Cortina though, one of the reasons why they're so popular with families.



Brakes

All have discidrum brakes but the 1300 does without a servo. Brakes are perfectly adequate although obviously you'll need to prod the pedal a bit hander on the 1300. Check that the car pulls up straight and watch out for seized calipiers or wheel cylinders from a lack of use. Again, the performance crowd have engineered many improvements, but make sure that you are happy with any modifications.

IISTOR

1962 The world is introduced to the Cortina. Ford's funky family saloon. Previous Fords always felt a little humdrum but with those cheeky tail fins and 'ban the bomb' rear lights, the Cortina appealed to many more people, the later Lotus only increasing the desire for the Corty, Sales are immediately strong with the car a firm favourite amongst fleet managers and family folk. 1966 The Cortina is updated to Mk2 specification. Changes are pretty much confined to appearances. albeit all now rather plainer. The Ford-built Lotus lacks the appeal of

the earlier model, leaving the plush

1600E to be the one that purists prefer. This has tweaked handling and a luxurious interior, a very pleasant mix

1970 Sales are already running at 225 million for the Control family 50 million for 60 million family 50 million for 60 million family 50 million for 60 million family 60 million fam

obtaind the identing viewer. 1973 is Suchilla time with justic grillers row filtred, foods, the 1973 is Such interest in the view special and in much improved. The 1000 was now of the overheed-carmbailt type and safe real bits are 1000 and now of the overheed-carmbailt type and safe real bits are filed by the safe light price which the success of the Min2 1000E, but it fill as later way short of the mark. While there was no anyoing that it was alter way short of the mark. While there was no anyoing that was success in terms of a size. The was soon over a 2000E existence of the pool hadders of the probabilities of the probabilities

1997 Time is called on the Mk3, It's taken seven years to sell a similar number to the Mk1 and Mk2 but it got there in the end during a troubling decade— It wasn't just BL that was suffering with workforce disputes. The Mk4 is effectively a more plainly restyled Mk3, just as the Mk2 was the same as to the Mk1.

1980 The MkS Cortina is the final flowering for the line yet, remarkably, it still owes a very large amount to the Mk3 which went before it. The Mk3 tag is an unofficial one. Food preferring to call it the Cortina 80, Production of the family shourine ends with the Jaunch of the vastly different Siera of 1982, which marks a return to MacPherson struts as well as the brave introduction of super-sleek bodywork of Profice Controversial new hatchback.



Contacts

Clubs

- Mark Three Owners Club, c/o Helena Rae, 71 Ayr Drive, Airdrie, North Lanarkshire, Scotland, ML6 Tel: 01236 754431 or 07876
- 252472 www.markthreeownersclub.com

 Old Skool Ford, www.oldskoolford.co.uk

Specialists

- Affordable Classics, sales, Essex, 01787 237887
 - www.classicfordcars.co.uk

 Speedy Spares, Sussex, 01273 417889
 - www.speedyspares.co.uk

 Or visit www.fordcortina.co.uk/parts.htm

How much?

The TV programme Life on Marc certainty gave prices a kick but prices have settled a little now. The 2006 E still the most popular of the standard-bodied cars and prices are knocking on the door of \$300.A CNI, Lists the exclusivity and some of the plush thirting but is otherwise identical and good value at a couple of hundred pounds less. However, be aware that the market will pay store prompts for exceptionally tide, low mileage cars, especially if they're a metallic bronze colour, aping the TV star car.

Poverty spec 'tinas still fetch £2200 but £1000 should nab you a ratty runner with MoT. Crayford convertibles are rare and desirable and you might need £5000 if you want to make the most of the summer. Estates are also rare and often overlooked. They are supremely practical but many have led a hard life and they are qettina (incressingly rare.

Verdict

The MAS Corrisa might have been a disappointment in allet terms with styling which seemed to date quickly but like that other of-1s-time Ford, the Anglia 105E, this is what gives the cartupe appeal there days, and not just locause it's become a TV star. A MAC or MAK Cortina just looks a bit plaks in comparison as ford played ir much safe with the styling. Ford was very much like this. A few years of bland and then they'd lob in a wild card the styling of the styling of the styling of the styling of the styling.

the Search and the serve as regular transport too. Sear you'll have to keep on top of the rup but, bit a five-specified from parthors in and you've got a capable, if not that referred, cruiser which is more than capable of hodding you win incoder trattife, perceptibly flyou of for a 2000 which had very strong performance for its day—the of do for a 2000 which had very strong performance for its day—the of the for a 2000 which had very strong performance for its day—the of the for a 2000 which had very strong performance for a 2000 which will be a modern staffic. Who don't pay much of a penally at the pumps either, although no Corriso is that thrifly with the jusce. To book out for care which have had then identified strong and on where the numbers don't match. The lare of free road tax is just too tempting the format of the contraction of the contraction of the format of the contraction of the contraction of the format of the contraction of the contraction of the format of the format of the contraction of the format of format of the format of the format of the format of the format of format of

Mechanical parts are no issue to source either making the Mk3 Cortina the ideal daily classic if protected from the elements with a decent coating of anti-rust potion. With values still realistic, it's a great way to enjoy classic motoring on a regular basis.

Insurance quote

- Based on a 1972 Ford Cortina 2000GXL valued at £2500
- Fully comp, 29-year old, two-years NCB, parked on drive, non-club member £126.45 with a £50 excess
- Fully comp, 50-year old, full NCB, garaged, second car, club member £99.15 with a £50 excess Cover includes 24hr breakdown recovery (UK and Europe)

es 24hr breakdown recovery (UK and Europe and motor legal expenses

Buyer's Datafile: FORD ZEPHYR/ZODIAC MK4

Bred by Ford, the Mk4 Zephyr/Zodiac is quite a rare sight today, but for those of you who know where one is, ADAM TAIT shows you the haggling points...

nlike its be-finned predecessor, the Mk4 Zephyr/Zodiac is absolutely enormous. With a bonnet area vast enough to host a football match, and a face that frightened anyone who had the bottle to glance in their rear view mirror, the Mk4 wasn't a company hack for the Nancy boy. It was a brute for the exec. Sadly, Triumph and Rover had developed syelte new cars to target young and thrusting executives, meaning the Ford seemed almost immediately

Fnoine choice wasn't sympathetic at the numps

either; customers could opt for a 1996cc V4 or 2495cc V6 on the Zephyr, while the Zodiac/Execu

with a larger capacity 17mpg 2994cc V6 unit. More interestingly, in 1968, the Home Office threw an order at Ford for 22 Mk4 Zephyrs. "So what?" you may be thinking... but not when we tell you that the order form specified ABS and fourwheel-drive. This was based around the Jensen Interceptor's 4WD setup, and because of the added weight and need for front driveshafts, the suspension had to be totally redesigned. Although a

to be out of reach for the police. Bet they had fun

Sadly, the standard suspension was rather flawed. It was fully independent at the back but, this being Ford, it was developed on a tight budget and not really tested enough before the public discovered the flaws for themselves. The main problem is wheel tuck - something not unknown to owners of Triumph Heralds but exceedingly alarming when mated to a barge-like car with V6 power. It wasn't until 1969 that things were improved, but it still pays

Water numn

backplate)

Is it a classic?

Despite being almost completely forgotten, these cars definitely deserve to be on the classic hon list. Just because the Mk4 hasn't jumped on the Seventies Ford bandwagon of ridiculous asking prices, it doesn't mean that the youngest of the Zephyr family can be

regarded a worthy classic. Its looks are instantly recognisable. and the Vee engines, more so the sixpots, go hand-in-hand with the fat cat executive image.

What's out there?

The Mk4 was unfortunate enough to pass through the sieve of desirability This has resulted in a low amount of restorations, and projects only fetch a few hundred quid.

Zodiacs and Executives tend to be more in demand, while the V4 Zephyr. although not one to be avoided, isn't such a good catch when compared to its more powerful, and smoother, V6 brothers. Estates, converted by Farnham, are amazingly commodious

BODYWORK: When you arrive at the vendor's address, keep the following SPECIFICATIONS

Engine

Power:

Gearbox:

Consumption:

FORD ZODIAC EXECUTIVE 3.0-LITRE

The 2.5-litre version found in the and even rarer than the saloons. Zephyr, and 3.0-litre that lives in the Zodiac/Executive are essentially early What to look for? editions of the Essex engine.

2994cc V6 OHV

181lbft@3000rpm

three-speed automatic

136bhp

17mpq need be.

We doubt that it will be modified, but in standard form, there isn't much to go wrong, although low oil pressure can be a common trait. and the camshaft drive can go awry thanks to the fibre gears. These can give way, but thankfully, the valves tend to escape unscathed. It's worth finding out if this has been changed recently, if at all. Whichever the model, the spare wheel occupies the underbonnet area, so remove it if

in mind; the Zephyr or Zodiac sat in

front of you will probably be fairly

It was built in the late-Sixties/early-

heavy rainfall

Seventies, and England suffers from

for. There aren't a myriad of hidden

crevices, but have a good poke

around. Hotspots include wheel

arches, front wings, and the front

edge of the bonnet. The top edge of

the front wings can be a horrendous

you also need to consider the strut

tops, as on any car with MacPherson

especially at their rear edge where the

can suffer, but are tricky to check with

crossmamhar holts to tham 4-posts

FINGINE AND TRANSMISSION: The

Ovals such as the Corsair and Transit,

and although it tends to be reliable

with regular maintenance, it's the

smoother V6 engines that reign

V4 unit is also found in other Blue

suspension. The sills are prone,

area in which to rectify damage while

It's more a case of what not to

highly rated piece of kit, the conversion cost proved to use your Mk4 to cruise rather than hurtle The Borg Warner three-speed automatic and four-speed manual original, so running repairs, rather than gearboxes don't throw up any horrors. a bare shell rebuild, will be more likely. but do listen out for any suspect

whining noises while on the test SUSPENSION, STEERING AND BRAKES: Innovative it was. The discs all round and independent rear suspension. This sounds great. but rear caliners can seize and replacements are thin on the ground. Suspension bushes don't tend to wear at a heavy rate, but polyurethane replacements aren't advisable as it could make the soft ride a harsh one. Unless you are planning on doing track work of course, which is

Power steering came as standard on the Zodiac but (we believe) it was an option on the Zephyr. Check the hydraulic ram isn't seeping fluid because this is a frequent gripe INTERIOR AND ELECTRICS: The local trim refurbishment shop could be your only hope in reviving upholstery that has gone beyond the capabilities of cleaning products. A lucky autoiumble find is another option or an owner's club contact who has parts for sale. Electrics are relatively simple, and don't give too many problems; just ensure the universal checks are made by ensuring the battery leads are tight and corrosion free, and that a cowboy hasn't turned

any wiring into spaghetti junction The parts situation

There aren't any big firms on hand to supply every nut and bolt for a Mk4. Our advice is to join the Ford Mk4 Zephyr & Zodiac Owners Club (www.communigate.co.uk/london) mkivzzoc), because this will open the door to several membership benefits. including spares co-ordinator, Jeff Parts prices are excluding postage costs,

and are only available to club members due to insurance conditions: Front pads £15.00 Rear pads £20.00 £85.00 (V6 exchange) Radiator £65.00 (V4 exchange) Top hose £5.00 (Late or Early)

£20.00 (without £6.50 (V6)

Bottom hose £3.00 (V4) What should I pay?

You'll be lucky to find an array of choice in the classifieds. Because of their undesirable status, many Mk4s are in automotive heaven, or future candidates at the next destruction derby meeting. Projects are worth no more than a few hundred guid, but a reasonably good Zodiac can demand £1500-£2000 (Zephyrs slightly less), while a rare-as-rocking-horse-manure, exceptionally low mileage car can

change hands for over £4000. Farnham estates are even trickier to put a price on, but we spotted one in the classifieds that needed 'minor' welding to pass the MOT for £1800.

Should I buy one?

If you enjoy the styling cues of British car manufacturers looking to the USA for ideas, then it doesn't come much better than the Mk4. At CCW, we especially rate the Farnham-converted estate, which coincidently proved to be a popular mule among the custom scene, and is one of few classic Fords that really suits the wagon format.

For those who yearn after luxury then bag an Executive, but any of the lesser models, such as the Zephyr 4 (V4) will still impress. Restoration projects will ask for a lot of your time and money, as the Mk4 doesn't have a greatly accessible spares backup (especially when compared to something like a Triumph 2.5), so a road-legal project that needs little work, or a very low mileage concours (they do come up) example would he the more sensible ones to an for That's not to say we don't encourage



FORD SIERRA XR4I, XR4X4 AND RS COSWORTH



Cologne V6: These power units are under-stressed and long lived, and they throw up few problems in daily use. If you can find one that has been carefully serviced on schedule, there's no reason why it won't sail through 200,000 miles without any problems. The key to this long life is regular oil and filter changes with the good

adjust as standard items.



quality stuff - and later models benefit from uprated hydraulic tappets that are as easy to

RS Cosworth: Like the V6 version, these engines are long-lives and have few foibles if maintained properly. In fact because it was built to a higher standard than the rest of the range, it should be even more so. The head gasket is an issue unsurprisingly in a car with so much power, and the RSS00 accordingly suffers more - as do 'chip-tuned' versions. However, the head can only realistically be skimmed the once - and after that you're

looking for a new one. Engines that have suffered major mechanical failure may have had the block changed for a standard one - and you need to look closely at any invoices for serious bottom end work. If there are signs of bottom end wear such as blue smoke and grumbles, bear in mind that a guaranteed Cosworth rebuild is going to cost you something in the order of £3000. You have been warned.

Don't worry too much about the turbochargers - second hand units are readily available, and Garrett rebuild kits can be sources for under £50 if you shop around. Finally, these cars are very tuneable, and it's a rare car that hasn't seen an ECU upgrade. With kits that offer anything up to 400bhp (and then some), we can see why they have

appeal, but remember that extra power means extra wear, and if the rest of the components (such as the head gasket) haven't been suitably beefed up, you're looking at potential medium term issues.

Parts prices

mon parts prices, from Graham Go uding VAT Cosworth (from Graham Goode including VAT): Graham Goode 3-inch stainless steel exhaust system £558.13 tex fast road brake pads for AP Racing 4 pot brake calipers £65.89 ex trackday brake pads for AP Racing 4 pot brake calipers, 2wd Sierra Cosworth Complete £167.08 Clutch 3in1 Kit. rra RS500 replacement £1298.80 YBO 611 Cosworth Head Gasket,

indard parts:	
ont wing (pattern),	
ont bumper,	£180
ıtch kit,	
ernator,	
erter motor	F60 (eychange)

Transmission

The standard gearboxes are can feel notchy when cold, although later post-1989 MTX75 models are much improved in this respect - but it's always worth bearing in mind that even when they start whining, they'll carry on going forever. The four-wheel drive transmission

system, inevitably, has more points worth bearing in mind, though, If it has been used with mismatched tyres or towed on a dolly rather than a trailer. you'll be facing serious damage in the viscous coupling in the transfer box - and you'll know instantly that's happening because of the noise coming from the transmission when underway. Replacement costs around £600 for a recon unit and £1500 for a new one.

Specification								
Car XR4i	XR4x4	XR4x4	RS Cosworth	RS500	Sapphire RS	Cosworth 4x4		
Year	1982-1985	1985-1989	1989-1993	1985-1986	1987 only	1990-1992		
Engine size	2792cc, V6, SOHC	2792cc, V6, SOHC	2933cc, V6, SOHC	1994cc, 4-cyl, DOHC	1994cc, 4-cyl, DOHC	1994cc, 4-cyl, DOHC		
BHP/RPM	160@5700	160@5700	150@5700	204@6000	224@6000	220@6250		
Top speed	130mph	122mph	129mph	149mph	154mph	143mph		
0-60mph	7.7 secs	8.4 secs	8.6 secs	5.8 secs	6.1 secs	5.6 secs		
Gearbox	All models: five-speed manual.							
Consumption	22-26mpg	21-25mpg	22-27mpg	20-27mpg	18-26mpg	20-26mpg		
Suspension	All models: Front: Independent by MacPherson Struts, ant-roll bar. Rear: Independent by semi-trailing arms, coil springs, telescopic damners, anti-roll bar.							

Race on Sunday, sell on Monday – that was always Ford's attitude to its family cars and competition, and never has this been truer than with the Sierar Cosworth and its XR-badged cousins. Designed for the track and tuned for the road, KEITH ADAMS gives you the low-down on buying these fast Fords…

Suspension

The main cause of concern for the Sierra's suspension systems is trace control bushes, which are simply not up to the job in hand. They wear rapidly and are awleward to replace — and it's easily sported on the test drive. Simply look for vague stepsice — and it's easily sported on the test drive. Simply look for vague stepsing and vibration under braking, and you're already there. Many people replace the entire arm assembly which is to heap at £17 per slide, but an alternative is to fit long life polyuerbane bushes to the original arms, although bear in mind that these

Dampers are an ongoing wear-and-tear option, and are not exactly expensive to buy, However, many sporting Sierras have been modified in this department, so make sure that you know what you're getting into. Finally, the XR4x4 uses gas dampers at the rear, which are more expensive than the standard items, so make sure these are up to scratch.

Interior

Ford Sierra interiors are durable and long lasting, but do have a habit of looking tatty with even fairly light use – but don't be put off by a sad and grubby looking set of seats and door trims, as they respond very well to thorough cleaning.

they respond very went to thorough cleaning.

The seats can also look sad with the passage of time, and if you can find one with a leather interior, your life will be made considerably easier.

Considerably easier.

Sun damage is a problem on dashboard tops, and the electric window motors are a known weakness. However, with so many cars built, and so many languishing in scrap yards across the country, you'll never struggle to find used parts. The rest of the electric system isn't of the highest quality, and the wiring loom is



Brakes

Warped discs and worn pads are easy to spot, and reasonably easy to replace on all Sierra models – although seized wheel cylinders can also be a problem, and replacement is the best course of action. The rear disc set-up has the inherent problem of seizing the handrake if it is left on for too long, or not used regularly – often the only cure is the replacement of the entire railiner assemble.

Bodywork/underneath

Sieras are known rusters in the trade, so whatever car you look at, make sure you take a very close look. Start with the front wings, which are a usual weakness – the first signs of deterioration will be at the wing tops, closely followed by the trailing edges next to the cloor, and then the wheelarches themselves. Have a good prod, too, as bodylists can disguise problems if there has been water inneress.

Work your way along the car, and check the inner and outer sills followed by the door bottoms. Don't be shy to look closely underneath, too, as plastic sill covers can disguise many evils. It's the same with the taligate and boot openings – well known water traps.

Then open the bonnet and take a good look at where the inner wings meet the bulkhead – as well as around the washer bottle, as these are troubled areas. Don't worry too much about the tops of the strut towers, as Ford seemed to get on top of that little issue.

Of course as all of these cars are fast and sometimes bought by over-enthusiastic drivers, you need to take a very good look for signs of badly-repaired accident damage. Poor panel fit and paint matches will tell their own sad story, and if you find a car thus afflicted, also some searching questions.

Finally, don't worry about the fitment of a strut brace – these bring untold benefits to handling, and have probably been fitted for this reason. Of course, a well-used car could have one to disguise the effects of warped front wings ahead of the A-posts. Again, don't be shy to ask those searching ouestions...

Wheels

Most Sierra wheels are easily found on the secondhand market, as Ford alloys seem to last much longer than the cars they originally appeared on. The main one to watch out for is the RSSOQ, although it's unlikely you're going to be looking at one of these riding on aftermarket alloys. If you are, then consider the fact that these wheels are like hen's teeth, and no longer available new.



PRICE GUIDE - FORD SIERRA

	YEARS	MECHANICAL	BODY	c	1	2	3
186	1963-1965	****	*****	£1,800	£1,400	£750	£300
RS Cosworth	1965-1967	****	****	£9,500	68,250	£5,000	£3,000
RSS00	1967	****	****	£14,000	£12,500	£8,000	£5,000
Sapphire Cosworth	1968-90	****	****	£7.750	£7,000	64250	£2,500

low uper high miles, understable colour but still describe or

HISTOR

1978: Project Toni kicks off — its brief to replace the strong-selling Ford Contina. From an early stage in the programme management decides it needs to have a hatchback, aerodynamic styling and use the existing engines and gearboxes. Patrick te Quement is placed in charge of styling, and soon devises a number of radical proposals.

1981: The Ford Probe III concept car appears at the Frankfurt Motor Show and immediately wows visitors. Ford management makes no secret of the fact that the concept car's styling is an advanced version of the following year's Cortina replacement. Traditionalist buyers are already up in arms...

1942 of our words the first Sees area, and menetatively course a smeaton — the shippils over the seption at all own deep receiption at low does solice, as it available only in flow does hat blocks and estate versions. Although there and find showing is supply more job tool whell driver notably 'substall with the Crailler." Feel stick is to original plan, of leaving system to that of the Marcianski. The seed is not supply all plan of leaving system to that of the Marcianski. The engine regime primers that of the Certina, with 3.1, 14, 20 litele four cylinder units, and the smooth 3.3 litele visit. Although the engine are contangued to greate and compared to a deep or efficient of 0.3 licenspread with 0.4 of the Certina. Illin application to a deep or efficient of 0.3 licenspread with 0.4 of the Certina. Illin application to a specific each of the first own of the seed of the certification of the specific or supplied and the first seed.

to repaire each mode in the large.

1983: The first Not version of the Sierra appears - the XR4L Visually arresting with a one-off three-door body and bi-plane rear spoiler, it's powered by the same Ve engine found in the Capa? I.2 injection and Garanda 2.8 (originally rated at 160hbp). Performance is excellent with a 0-60 time of 7.7 seconds and too speed of over 130mph.

1986. A very big year for the Gene - with the TREAL and SC Concordin vallage that direct Data. The selecting Diffe is deposed for the Data is desired in the desired file deposed for the Data is desired file deposed by the desired on the 2-28 leave life engine and a band enter for wheel the desired file deposed by the client of the Data is desired file deposed file de

1988 Production of the original fol. coason the role. In the them being 1994. A further development of the Coasonsh pages, the Series 1500 (which stands for Remisport. Power is upsteed to 220-bip, theats to a much large Coartes 1710; Methodologies and the face templately to be boosted to 300-bip in competition from. The 1500 features too rare policies, and is seamed by following fereignent justices. The Series areas frould precision amplot feature 1 and managers to part right a major wanger commented by the seamed control and sealing of the feature series in the feature control and pages described. The series of the series of the series of the series of sealing the series of the series of the series of series of the series of the series of series series of series series

1988: The four-door Sapphire saloon Sierra body forms the basis of the productionized RS Cosworth – and the result is a far more understated-looking performance car. The engine specification is back to 1985 levels, but despite that, the RS Cosworth remains one of the few four-door cars with 150mgh capability. The XRAv4 also receives the uprated 2.9-little V6 engine inow rated at 150bfpl, which debuted in the Scorpio model the previous year.

1990: A last - the RS Cosworth is mated to a four-wheel drive system Goody. The related to that of the Wasks du crozes the Ask valves root, many like is the car the 1990 and the MS of the MS of the MS of the Ask valves root, many like is the car improved by the dolfed fraction. A IRS Covernh 6x4 are frietled within learnher improved by the dolfed fraction. A IRS Covernh 6x4 are frietled within learnher interior and fusury equipment and are priced accordingly, and are boosted to 2005bp. The SNAF whom Good in expanded into a throat care root, which the dedition of the 2.0 little 101 powered version — and a two-wheel drive version of the car is down another.

1992: Production of the Sierra-based Cosworth models comes to an end, and the model is replaced by the more compact Escort RS Cosworth. 1993: The XR4I and XR4x4 models are phased out, and the Sierra makes way. Contacts

Jubs

- Ford RS Owners Club, Berks, Tel: 0118 984 1583 or www.
- rsownersclub.co.uk

 Ford Sierra Club. www.fordsierraclub.co.uk
- XR Owners Club, www.xroc.co.uk
- Specialists: tuning
- Graham Goode, Leicestershire, Tel: 0116 244 0080 or www. grahamgoode.com
- Automotive Unlimited, Essex, Tel: 01279 816049 or www. automotiveunlimited.co.uk
- PJ Motorsport, West Midlands, Tel: 01902 862880 or www. pjmotorsport.com
- pjmotorsport.com
 BBR-GTi Limited (Tuning), Northants, Tel: 01280 700800 or
- www.bbrgti.demon.co.uk

 Garrett Turbo Services, Manchester, Tel: 0161 485 6244
- Newford Parts Centre, Lancs, Tel: 01254 830343 or www.btinternet.com/~newfordpartscentre
- Castle Performance Engineering, Staffordshire, Tel: 01782 715006 or www.castleperformance.co.uk
- Specialists: parts Ford dealers

 Ford Parts UK, Salisbury, online only, www.fordpartsuk.com
- Mainly Fords, Glasgow, Tel: 0141 775 9146, or www.mainlyfords.co.uk
- Mitchell Dismantling, Cheltenham, Tel: 01424 672 811, or www.mitchelldismantling.co.uk/ford-parts/
- XR4i Spares Centre, Essex, 01375 672 641

Market Trends

Cosworths have been prized possessions since the moment they rolled off the production line. Once the cull of the early-Nineties was over, numbers had thinned out sufficiently to start talking in terms of reverence for an all-time classic, values were set fair. Now the whole insurance issue is well and truly over now, and we can concentrate on the fact that these cars are fast and fun and pretty solid,

Verdict

For too long, the V6 Sierra XR4s have lived in the shadow of the more glamorous R5 Cosworth models, and although they were sold in much langer numbers, the low survival rate may well mean that in a few years time, these are the rarest of all the fast Sierras. Ask yourself this —when did you last see an XR4 out in the wild? Exactly.

Prices remain encouragingly low at the moment, and for about £1000 you could end up with a very useable and cared-for XRRi or XR4v4. Olay, they're not the last word in refinement, and the styling is of the low-th-or-hate-it variety, but for your money you're getting an awful lot of ability, and head turnino looks.

As for the Cosworth engines cars, these are all classics in the truest sense of the word. Although the RSS00 commands the greatest premium because of its arrib, wed think twice about paying eart for 20thip eatra and all that additional lag. The best day-to-day classic would be the 4x4 version, although there are plenty of additional factors to take into account when it comes to pervicina and running costs.

Overall, then, we'd go for the Sapphire Cosworth, and enjoy its fun handling and discreet looks. The main issue, of course, is price – and these seem to be the cheapest of the breed – and finding one that isn't modified. To do that, we'd always recommend joining the Ford RS Owners Club.

Insurance quote

For a £5000 1988 Sapphire Cosworth, with no modifications, based in Peterborough.

- Fully comp, £100 excess: £706.65 for a 29-year-old, two years' NCB, clean licence, 10,000 miles, only car, kept on driveway, club member, with Cat 2 immobilier.
- Fully comp, £100 excess: £166.95 for a 50-year-old, full NCB, clean licence, 3000 miles, second car, garaged, club member, with Cat 2 immobiliser.
 Quotes from Firebond (0870 111 0464 or www.firebond.co.uk)

for the completely new front-wheel drive Mondeo.

Buyer's Datafile: FORD SCORPIO COSWORTH (1991-1998)

We know what you're thinking - it's a minicab. Well, no actually, this one's rather special, and as KEITH ADAMS explains, well worth taking a closer look as your next future classic Granada hit the market in 1985, it caused controversy

ord's Granada was a member of the establishment from almost the day of its launch in 1972. Ford could do no wrong back then, and if there was gap in the market, the company had an offering to fill it.

It's easy to see why Ford was so successful - its cars were stylish, and you could buy them in a myriad of versions to fit all budgets. The 1972 Granada was replaced by a sharper, more angular edition in 1977, and in 1985, a wholly-new hatchbacked 'Granddad' hit the market. Each generation met with a popular reception

om buyers – and sales remained strong. It's fair to say that when the third generation

Styled by Patrick Le Quement (also responsible for the Sierra), and available exclusively as a hatchback, the new car was Europe's first to be offered with anti-lock brakes across the range as standard - and it looked cutting edge against new-age rivals from Saab, Audi and Renault

In Europe, the entire range was referred to as the Scorpio, whereas in the UK, the Granada name remained although the top of the range models were called the 'Granada Scorpio'. Available in 2- and 2.8-litre form, the range was treated to a continued range of upgrades during its production run, which culminated in the

launch of the 24V Scorpio Cosworth version in 1991 Although this new 195bhp FBA engine was based on the venerable Cologne V6, new heads, and various other components developed by engine specialist Cosworth, ensured that the new car became a fitting flagship Unlike the Sierra Cosworth, the Granada Scorpio was never pushed as an overtly sporting choice, more as a gentleman's express, which it did remarkably well. In 1994, the Granada became the Scorpio and adopted bold new frontal styling. The engine and chassis was mildly tweaked, but sales slid in the face of the rising popularity of the premium badged German

Is it a classic?

It will be. Although the Scorpic Cosworth hides its prodigious performance and dynamics under the bushel of a sober business suit, there are enough people out there wise to its abilities to ensure it will make the transition from 'old' to 'classic' without too many problems (unlike some of its rivals, which may not escape the clutches of the crusher in their twilight

With 195bho on tap, it's a terrific drive and unlike the standard V6 versions, which can start to feel breathless when extended the Cosworth-tuned engine delivers nower and revs, and somehow manages to feel a little bit special. That alone lifts the car into the ranks of the classics add in that Q-car factor, and appreciate the fact that only the true cognoscentiownership proposition becomes a satisfying experience.

The post-1994 Scorpios were a slightly different kettle of fish though - mainly because the 24V version became a more mainstream member of the range, losing some of that all-

What's out there?

Concentrating on the Cosworth means that you don't need to concern yourself with the almost baffling range of engines powering the entire range. The 24V power unit came in two versions, FBA and FBC - and two transmission choices, manual and automatic. The FBC engine boasted more power (204bhp), and as the years passed equipment levels became increasingly generous. The 1991-1994 models were

marketed as Scorpio Cosworths, and sat. atop the range, but once the entire range lost its Granada taq, these cars became known as 24V Ultimas or Executives.

What to look for?

The neneral consensus of oninion regarding the Scorpio Cosworth is that it shares a number of weaknesses with the rest of the Granada range, but the engine is pretty strong and trouble free given proper maintenance. ENGINE: Some Cosworth-specific engine parts are, expensive, as expected, though the engines themselves are strong and reliable if

properly maintained. There have been cases of heads cracking - though this is as much down to abuse/neolect as any weakness in the car. A bit of topend tapping on a car that has been standing about a while may be down to a sticking valve; in which case it will probably clear after a good blast down

TIMING CHAIN: The timing chain of Cosworth 24v stretches and only lasts 3.4 years or 60 000 miles Renlacement of the timing chain and associated tensioners every 3-4 years or 60,000 miles is essential, so examine the service history very closely indeed. Listen for rattle at start-up - if it ones quiet within a second, you're okay, BRAKES: The ABS system is known to fail, and duff sensors are the prime

suspect. Rectifying faults and repairing them can be expensive, although parts availability is not a problem. The extra performance of the Cosworth engine places additional strain on the running gear, and brake gad and disc wear is higher than average - so pay close **ELECTRICS:** ECU failure is a possibility.

so if the engine management light is on, look under the bonnet at the ECU and check for signs of dampness. The battery should have a cover on it - is it there? Fusebox failure is another perennial problem - again down to damoness or blocked drain holes in the engine bay - so pay close attention to random electrical issues. Also check the TCS and ABS lights illuminate when the ignition is switched on - and then smartly go out, indicating all is well. **BODYWORK:** Granadas are not averse to picking up a bit of rust, so make sure you look closely for all the signs. Vulnerable areas are the rear wheelarches, and all four corners, due to the car's size and lack of extreme visibility. Accident damage is far from uncommon, so check the sins for sub-standard repairs, Bizarrely, later

Scorpios are more susceptible to tinworm than the early cars **FXHAUST:** Failure of the catalytic onverter can be costly, and a full

exhaust system is - as expected - not cheap. So listen and look closely. GEARBOXES: Manual transmissions are reasonably rugged, but the automatic quarbox can last as little as 60,000. 80,000 miles, so take care, and check for lazy gear selection, missing ratios

SUSPENSION: The extra power can/ does put extra strain on the front



opposition. The end came in 1998.

Performance (automatic) 1001,1004 2035rr 105hhn V6 24V 0-60 in 8.5secs, max speed 140mph 1994-1998 2935cc, 204bhp, V6, 24V 0-60 in 9.0secs, max speed 138mph suspension, too, especially if the car is driven hard. Compliance bushes, which moment, with the 91-94 cars selling more on condition and history rather

are a Granada/Scorpio weak spot, need to be closely checked. You'll know pretty much straight away, because the fever end will wander DRIVETRAIN: Does it vibrate when running? Low speed rumbles could mean a worn centre propshaft bearing - and droning noises denote worr wheel bearings. CV joints are also susceptible, so listen for clicking noises

The parts situation

on full lock.

It's a Ford, so parts should be a doddle to find? Generally yes, but as we stated before, bits special to the 24V version can be pretty expensive Typical prices, 1992 Ford Scorpio Cosworth

(Ford main dealer) Repair front suspension £200 £500 Front brakes Alternator £180 A/C pump £200 Power Steering Pump £300 Gearbox £750 rebuild £300 each Catalysts

Specialists Ford Parts UK internet only

- www.fordpartsuk.com ■ Mainly Fords, Glasgow, Tel: 0141 775 9146, or www.mainlyfords.co.uk
 - Mitchell Dismantling, Cheltenham, Tel: 01424 672 811 ■ Website: www.fordscorpio.co.uk

What should I pay?

Classic car rules are really only

than age. These earlier cars also have a more bespoke nature, which makes them more amenable to classic Ford enthusiasts. That being the case, £1500 will buy you an original car with low miles and an impeccable - probably specialist - history. Once condition deteriorates, the values seem to drop to around £300-£400 and that's because alone, the Cosworth lump is worth £250 second hand.

The newer cars are still very much secondhand (as opposed to classic) cars, although if you want a Frogeye, you can pick one up for £500 upwards. The best examples will fetch £2500 through a dealer, and these will be estate versions from 1999 on an S-plate.

Should I buy one?

If you're after a big saloon or hatchback with plenty of performance and space, then there aren't too many cars to touch the Cosworth at this price level. The 200bhp engine delivers plenty of punch, and the rearwheel-drive chassis is very capable indeed, and can deliver fun when you

There are plenty of pitfalls to look out for but we reckon if you pick the right one, at a good price, there's

enough charm and charisma to put a smile on the face of any big car fan. Comparable offerings from BMW and Jaguar (the rear-wheel-drive choices) will cost more money - especially when they go wrong Choose a nice one now treasure it, and reap the rewards in future

CCW BUYER'S GUIDE 55

FORD 100/107E ANGLIA/PREFECT/POPULAR



Engines



Contrary to popular belief, the 1172cc sidevalve engine used in all these cars is NOT the same as the engine from the 'upright' Anglia/ Popular range - even though it's the same capacity! The 100E unit featured an oil filter, water pump. adjustable tappets and strengthened connecting rods and

crankcase - the rods suitable for fitting shell bearings. It's not the fastest thing in the world and tends to smoke and frime from the

but it will probably run like that for ages. Overhaul is straightforward, and while some parts are getting scarce, the club and specialists can usually help... Engine condition is certainly less important than bodywork/underneath.

The 107E, of course, had the 997cc Ford Kent engine as found in the Anglia. These, too, get smoky as they get older and again, a 'fumer' will often run long after it shouldn't. Parts for these are available, as are complete engines.

All parts from the Ford Sidevalve Owners Club (which only sells to members) and Ex-pressed Steel Panels. Prices include VAT. £5.00 Oil filter element

(010-040 oversize available) Brake/Clutch master cyli

Clutch plate Clutch cover

(exchange - £10 surcharge) xhaust syste

£40 each, £75 a pair ear wing/arch repair section

nt wing (complete) nt wing (bottom half only) nt wing front lowe £40.42

Driving

Despite being an all-new car in 1953, the 100E was in many respects dated at the time of its launch - it may have been a new sidevalve engine but it was still a sidevalve and it still powered the car through a three-speed gearbox. The 100E's chief rivals were both from the BMC stable (Austin A30 and Morris Minor) and both were four-speed OHV models. By 1961 the 100E was totally outclassed - the Mini had been in production two years - and for most buyers the Popular was a price-driven purchase only

Behind the wheel, the first thing you have to get used to is the gearbox. It's a three-speed floor change, with reverse where you expect first to be, and you'll probably forget this when you're about to move off in traffic with another car close behind you...

Speed isn't, of course, the standard 100E's strongest point, and the three-speed box means you are in top sooner than you expect - from under 20mph in fact. Theoretical top speed is just over 70mph, but at this rate a standard 100E is screaming - a realistic cruising speed is just under 50. You won't be going out of the slow§ lane on the motorway then, but the 100E wasn't exactly designed with motorway use in

Don't, though, imagine that driving a 100E is a wholly unpleasant and uninspiring business - far from it. For starters, the handling is actually surprisingly good - one can imagine those used to the old-style Populars thinking the 100E was a huge step forwards in this regard. I also find them great fun to drive. You've got to work in order to maintain half-decent progress, but that's actually rather pleasant and certainly a lot more involving for the driver than a later car...

Oh, and if you want a 100E but want a bit more go and would rather achieve that in a period way, a lot of the old 'Aquaplane' tuning gear is now available again - including improved Aguaplane cylinder heads!

Specification

Car	Ford 100E	Ford 107E		
Year	1953-1961	1959-1961		
Engine size	1172cc 4-cyl sidevalve	997cc 4-cyl ohv		
BHP/RPM	36@4500	39@5000		
Top speed	71.5mph	76mph		
0-60mph	36.7secs	27secs		
Gearbox	3-speed manual 3-speed man			
Consumption	30-35mpg 30-35mpg			
Suspension:	All models: Front: Independent by MacPherson struts. Rear: Live axie, leaf springs, telescopic dampers.			

Running gear

Thee's nothing unconventional hee at all — drum brakes all round ("In to 1956, in thereits, full aprigues at the back and the then all reads the back and the then almost universal box based steering system. None of it is really any more or less problem proper than anything dest of the aga, Some parts are scarce from conventional sources — mer brake cylinders for 1955 57 can with 8th brakes for example— but the Ford Sidewale Owners Club must an excellent space parts service officing most of the round wear and their stems — offens on an exchange basis. Prices are very realistic, but availability is strictly members only.

Please note too, that although the 107E running gear is pure 105E, many ancillary items such as hoses, engine mounts and so on, are unique to the 107E. Some of these, too, are scarce, but again the club has sourced/made a lot.

Interior

Not much to worry about here - because there insit reactly a lost in the first place in Finited metal disk and door tops are fer painted metal disk and door tops are fer painted metal disk and door tops are fer painted to restore than wood or fabric, and it's relatively easy to make new carpets - though most of these can started life with rubber mass on the floor and if you're a stickler for originality you'll search out a good set of these. Seats need to be good -don't worry if they are dirty as all but the most stubborn of marks can be removed yellow time and effort, but rips', cigarette burns etc., are a different



Bodywork

As usual with classics, body with sit he major problem with these care. In but that is busing because where laiding about care in that have already survived for four or the times as long as for one of the control of

As 100Es are fairly basic cars – even in Deluxe form – there isn't an enormous amount of brightwork to worry about, though we understand that some of the early stuff is a little hard to find as is anything that was exclusive to the estates or vans. Some small fittings were made from chromed Mazak – a soft alloy which pits with age – but remanufactured replacements are available.

involved in making them in small production runs.

Chassis

First the good news – despite having MacPherson strut front suspension, inner wing rot isn't a particular problem on these cars – that all began when Ford started going for lightweight construction with the Mk1 Cortinal The 100E was an early example of this set-up and basically it was over-engineered because it was still new technology.

The bad news, though, is that there are plenty of possible problem-areas elsewhere and although the cars were built strongly, it's underbody not that's killed most 1005 in the half century since. Principle places to check are allis (inner and outer, along with the adjoining box-sections. The other facourate problem-enes is the rear symple hanges and the chassif sections that curve up and over the rear aide. Any or chassif sections that curve up and over the rear aide. Any or and that means basically the whole underbody is structural.

Transmission

Three-speed gearboxes are okay, though some spares are getting scarce and most owners live with weak/non-existent synchromesh on second once it's there – double declutching is a useful skill to have when driving these cars anyway, as first never had synchro. Unusually for a car of the era, the gearboxes in these require EP80 gear oil, not engine oil.

The four-speed 105€ type gearbox is generally good - though there's still on syndro on first - and there's no shortage of good used boxes as 997cc Anglisa are still being luppraded; Rear adea are generally okay - as susual with can so the era, a bit of oil leakage and a bit of white go with the territory. Unless it sounds absolutely horned t'ill probably run like it for ages and with luck the cit that's come out will help protect the back end of the differential horsing - a bit of typical Ford cort-curting- and this can occasionally lead to wear problems, though unaffected replacements are estatively easy to find.

Contacts

- Clubs Ford Sidevalve Owners Club, Membership Secretary, FSOC Ltd. PO Box 8095 Bishop's Stortford, Herts, CM23 4XZ. Website: www.FSOC.co.uk
- Ford Anglia 105E Owners Club (caters for the 107E), c/o 30 Langwith Road. Bolsover, Derbyshire, S44 6HQ. Website: www.fordanglia105eownersclub.co.uk

Specialists

- Classic Ford parts, Berks, Tel: 01344 304064
- Collectors' Car Parts, London. Tel: 020 8897 3774

HISTORY

1953: 100E range introduced, with an all-new integral bodyshell and MacPherson strut front suspension, mainly as replacement for 'sit up and beg' models (though one of these continued as a low-cost Popular model until 1959). Anglia was the two-door model. Prefect the four. The Anglia had a three-bar radiator grille, while the Prefect was recognisable by its vertical bar arrangement

1954: The Thames 5cwt van is introduced. On other models, chromeplated surrounds to front and rear screens, and chromium plated wiper arms make an appearance, and there are detail changes to the interior. 1955: Escort and Squire Estate cars appear in October, plus the tougher

Thames 7cwt van introduced. The Squire has wooden trims on its side to make it stand out as the 'luxury' version. Deluxe saloons introduced, with modified instrumentation, chrome headlight surrounds, chrome side trims. At same time the chrome windscreen surrounds were deleted from the standard models.

1957: All cars received a major facelift with a larger rear window, modified rear lights (saloons) and chrome-plated bumpers on all cars. There's a new mesh pattern radiator grille for Anglia instead of three-bar. which is chrome-plated on the Deluxe model. The Prefect retains the same grille, but here too it was chrome-plated on the Deluxe version Other changes are a modified instrument panel, new upholstery colour schemes, plastic headlining instead of cloth, which is described by Ford as 'washable'. Deluxe models now feature - shock horror - a lockable glovebox and clothes hanger.

1959: The 100E Popular is introduced as replacement for the 'sit up and beg' Popular - essentially a basic car - with a price, including tax, of £494. That's £2 less than the Mini, and makes the Pop the cheapest 'real' ca available in Britain). Identification points are its separate round rear lights. and Anglia-type grille. The Popular Deluxe (£515) features the following goodies NOT found on the standard Popular: opening quarterlights, boot locking handle, ashtrays front and rear, two sunvisors, door pulls and interior light. Gosh, the luxury... Later in the year, in October, the Anglia and 100E Prefect are discontinued, along with Squire estate car. The Anglia is replaced by 'reverse rake back window' 105E overhead valve model and the 100E Prefect is superseded by the 107E Prefect (using the 100E bodyshell but with the 105E's 997cc engine, gearbox and axle). The latter is available in Deluxe form only. Most 107Es had two-tone paintwork and a 'dogleg' chrome trim on the front wing phased in after the first two months.

1961: The 7cwt Thames van discontinued in January, followed by the 100E Popular, Escort estate car and 5cwt Thames van manufacture in April. The end for the 100E bodyshell finally comes in May 1961, when the 107E Prefect goes out of production.

Insurance quote

- For a £1500 1957 Ford Prefect 100E, based in Peterborough
- Fully comp, £124.50 for a 29-year-old, two years' NCB, clean licence, 10,000 miles, only car, kept on drive, club member
- Fully comp, £62.50 for a 50-year-old, full NCB, clean licence, 3000 miles second car, garaged, club member Quotes from Firebond (0870 111 0464 or www.firebond.co.uk)

- Affordable Classics, Essex. Tel: 01787 237887 or www.affordableclassics.co.uk Goldendays, Norfolk, Tel: 01603 881155
- Newford Parts Centre, Lancs. Tel: 01254 830343 or www.newfordparts.co.uk ■ Ex-pressed Steel Panels Ltd, West Yorkshire, Tel: 01535 632721 or www.steelpanels.co.uk
- Ford Spares (Tendring), Essex. Tel: 01225 830244 Classic Components, Yorks, Tel: 01535 635829
- LMC Hadrian, Wilts. Tel: 01373 865684 or www.perfectpanels.co.uk
- Small Ford Spares, Vintage Supplies Ltd, Norfolk. Tel: 01692 650455

How much?

perhaps £2000 for a van or an Escort/Squire estate. Restoration projects start at under £250, but unless you want to do a restoration as a labour of love we'd recommend saving up for a good one - restoration will cost five or six times as much! Really rough examples still turn up surprisingly often for a car that left production 46 years ago - at the time of writing there are two on eBay for around £100 — but cars like this are usually seen only as a good source of spares. That, though, is only half the story. For starters, it's really only the 100E saloons that appear on the open market with any regularity. The 107E Prefects are desirable because they're more useable (cruise at 65...) but scarce; partly

On paper, you'll pay around £1500 for a good 100E salpon, £1700 for a 107E and

because they were available only for about 18 months. More importantly, some 107E-only parts - most notably the front axle beam/subframe assembly - have for many years been very sought-after by people wanting to upgrade a 100E. Bolt a 107E beam onto a 100E and you can basically fit any Ford Kent engine - or a Pinto with a bit of modification. Any complete 107E is therefore likely to be worth at least £3-400, and will probably find a new home without the owner needing The Holy Grail of the 100E world is, we understand, a 'woody' Squire and these do attract a significant price premium over the theoretical top price for an estate.

Any estate car is, though, pretty rare and, in the real world, a good estate will sell for more than book price. More significantly, they tend to sell quickly by word of mouth and are rarely advertised.

These rare models are the one case where a full restoration might be justified: if you want a Woody but the only one you can find needs a rebuild you'll do it! Having said that though no-one we have spoken to in preparing this knows of any estate restoration project that is currently on the market! Projects exist - but they are with enthusiasts already!

Sadly, many 100Es have now lost their original registration numbers - all-toocommon with older, low-value cars. Most buyers will prefer a car that hasn't been re-registered and will down-value one that has by 15-20 percent, though this is usually less than the number was worth!

These values are all for cars that are substantially original. Many 100Es have been modified - bigger/later engines are very common. These cars should be assessed on their merits - especially how well the conversion work has been carried out...

Verdict

One thing we need to get straight immediately - unless all your driving is on roads where you don't ever want to exceed 50mph, a standard 100E is not really ideal for everyday motoring in 2007. That, of course, is probably also true of most other cars of the era - though arguably it's more so here But that's not really what owning a 100E is all about. Rather, it's all about

having fun with something that's old and different. So if you're going a longish way forget motorways and fast A roads, and plan your journeys to cover some of Britain's lesser-known byways. You'll take longer of course. But you'll arrive a lot more relaxed and I bet you'll have seen a lot more of Britain in the process! There is, though, one semi-everyday use to which these cars can be put -

some people have one as a second family car instead of the boring modern Nissan Micra or Peugeot 206. You'll use more fuel of course, and a car used in this way will need looking after (though DIY servicing and repair is, in the main, dead-easy) but I'd suggest that will be more than offset by the total lack of

The other good thing about these cars is that they aren't exactly expensive to buy - as we've seen, £2000 will buy you a condition one car, and around half that a slightly scruffy but perfectly worthy and worthwhile running car. The overall message, though, if your ultimate aim is a good car, is to buy the very best car you can find/afford to start with!

Ford Capri Mk1 and 2



Parts prices All parts from ASJ For Capri Mk1.. New front bumper £125.00 New bodyside mouldings £500.00 Mour socialist unit £1800.00

ew rearlight unit £150)
ew chrome roof mouldings, pair £100,
ew rearchrome hockey sticks,
air £150,

For Capri Mk2...

New front panel £295.00

New bonnet £215.00

New nearside front wing £175.00

Engines

Engines were carried over from the Mk1 to the Mk2, although the original 1600 unit was dropped in 1972 for a Pinto type, and the 2-litre V4 went the same way with the advent of the Mk2, its Pinto replacement being of approximately the same capacity. Sothe types you'll find are Nent engines (1300

and 1600), a 1600 Pinto, the 2000 V4 or Pinto, and at the top of the tree, the three-litre V6. KENT: The engines are always generally a little on the noisy side, but a lot of it from the valve gear points to worn cam followers, especially if there's guite a noticeable (Licking involved. It's not just a case of new

to worn can reliate when the secretary is more squire a noticeasce county involved, as a role just a date or mere, and in the secretary is more squired and increased in the secretary involved in the engine, so easily replaced if necessary. On the usual check for blue smoke from the exhaust, signs of worn valve guides and/or piston rings. Wear is most likely on the 1300 engines in simply because they need to work harder than the more powerful 1600. On the surprised of lond any Kent engine has been turned...they're

amply Decidion tray need to Norkinstein state along potential locations are appreciated and preserving mental entering the concept of the preserving and the preservi

Animotor, and thing pools to the regime past a bodis. Testo glasses can be a productive, to closely an explosion and many the past of the productive problems can be considered productive productive

problems occur. Top end noise and bearing rumbles are other things to be somewhat concerned over....in fact, if you hear them, it's probable best to go looking slewhere, as parts are harder to source for one of these than any of the other Mikl or Mikl engines, and consequently expensive because of that.

PMTOT: The Actifise heel of early Pinto engines is that the oil soray bar could get closured up with old oil, meaning that the camshaft

iden't get enough lubrication. A lot of top end noise is a sign of this. However, most have been modified by now...check with the owner to see if he or she knows if this has been done. Even if a better spray bar has been fitted, regular oil changes are still vital.

Look in the history to see if the cam belt has been changed at the mileage it should have been, and look for over-tightening of the cam cover, which can result in distortion and subsequently oil leaks. As the Pinto doesn't generally leak the black stuff, if there are signs of oil excanious, look at the cam cover first as the likely suspect.

V6: This is a tough old warhorse that doesn't have a difficult job carting a Capri around, so shouldn't suffer from too many problems. However, if it hasn't been looked after as per the service schedule, then overheating can set in, leading to a blown head gasket and even a cracked cylinder head. So monitor that temperature gauge, and do the same oil/water mixing observations as for the V4 type above.

Specification							
Car	Capri 1 1300GT	Capri 1 1600GT	Capri 1 3000GT	Capri 1 RS3100	Capri 2 2000S GT	Capri 2 3000S	
Year	1968-1974	1968-1974	1968-1974	1973-1974	1974-1978	1973-1976	
Engine size	1298cc 4-cyl OHV	1599cc 4-cyl OHV	2994cc V6	3091cc V6	1993cc 4-cyl OHC	2994cc V6	
BHP/RPM	72@6000	86@5000	128@4750	148@5000	98@5200	138@5000	
Top speed	99mph	105mph	120mph	125mph	108mph	121mph	
0-60mph	16secs	13secs	9.2secs	8.0secs	11.1secs	9.5secs	
Gearbox	All models: 4-speed manual or 3-speed automatic						
Consumption	25mpg	25mpg	21mpg	20mpg	23mpg		

The Capri was the Ford's European realisation of the Mustang concept, and, in its own smaller way, just as successful as its US cousin. RICHARD GUNN cuts to the chase on buying the flist two generations of Ford's classic sporty coupe, with advice from classic Ford specialist Roger Chinery of Affordable Classics

Transmission

Roger does point out that on a test drive, you should listen for a noisy differential - either whining or clunks. You will need to take the rear axle off to replace. It's quite an involved job as specialist tools are needed. But so long as the oil in the diff has been kept topped up, all should generally be fine."

A clonking while pulling away and/or changing gear is likely to be worn UJs on the propshaft.

Interior

"Mk1s are fairly easy to put right inside," says Roger, "as most of them are just black vinyl. Tan vinyl is a bit more difficult, but you can always colour the material. Mk2s are more of a problem because most of them had a cloth interior...and the older the car,

the more unlikely it is you'll find a good match for the pattern.
"The top of the back seats often goes where they get the sun on them, and dashboards can crack...it's more likely on a darker interior because they attract the heat more."

In general, trim is not that resilient, and seats do have a tendency to split along their seams with age and use.

Further advice? "Always buy a car with the best interior you can find - the interior is actually more important than the bodywork, as you can always buy replacement bits for the body."

Try to lift the mast and carpets to check the floorpan "expecially under the pedials and the equivalent area on the passengers side" according to flooger. "left more grift and dirt thrown up by the road wheels statisch keep, just there's also a seam as well that cornodes of its own accord." Also look at the area where the floorpan meets the sills. Advanced cornosion in the sills can spread to here. Carpets can suffer from damp, thrashle to leaking door seakand that can cause therher cornosion in the 100 seaking door seakand that can cause therher cornosion in the



Bodywork

Finds of this can weren't known for the longweigh of their bodywords, and the Capit confirmen to the less palle upol controls needs. Super or expert floor, Chiney, "The MRI Capit pass castly virtually everywhere, and the MRI lot the Indied it "the flooged or jet front virtings as the water to check first. Tooks at the firston of them, especially assent the headings. There shis for the relative ship of the medium and the man of the floor validates and the processor of the medium. Among the control validates and the processor of the medium and the medium and the processor of the medium and the processor of the medium and the processor of the medium and t

Another grot spot is the "lower rear quarter, behind the back wheels' a prime spot for suff thrown up by the back wheels to attack. The front and rear of the sills are similarly affected for the same reason, "Look in from the wheelarch to see if thereis any consolin in this area." The wheelarches themselves-especially at the rear - have been known to suffer. It's worth taking a torch along to check underneath the arches for more concealed fobiles.

The top of the A-post is known to nut, "something they have in common with the Mid3", comments Roger. Open the doors and try to move them up and down, while an assistant looks for play in the hinge pins or hinge mounts. The pins aren't too much of an issue, but if the mounts are at fault, it points to problems with the A-posts. Not easy to

put right... and not cheap either. Under the bonnet is quite a crucial area too, in a famous Ford rot zone. "Look at the strut tops. They rust... and are generally worse on the V6 cars because they have a reinforcing panel here. The four-cylinder models – which don't have this - are usually better. Take a look at the

wing mounting rail too.

Doors should be checked along their bottom edges for rust and filler both inide and out. Don't forget the surrord, assuming one is fitted, although Roger's opinion is that Mk1 and Mk2 items are much less prone to corrorion than their Mk2 counterparts. "However, believes Roger," El Mk1 has a surrord that doesn't work it, probably never will. They's a helf of a job to sort util this is the case, as they weren't a factory fix. Still... you can always fit a Webasto instead. They look great on Caprist"

Something to be checked specifically on the MRL is the hartchack. because the MRL doesn't have one of course. Says Roger, 'Check the gas struct on the taligate are working if it his you on the head. ...th hurst'' With the booted MRL you should open the boot and check for rust around the rear window and the panel below it. On both lypes, look under the carpet at the wheelanches, boot floor and spare wheel well. Roger's summers is that "basclain, vou have to look pretry work

everywhere. But if a car looks well cared for, then it probably is." However, he did warn us that body parts for the Mk2 are more difficult to source than those for the Mk1, and headlamps are now getting difficult to find for both types.

Suspension

Before anything else, just stand back and look at the car from a little way away. A car that is sagging down at the back is in need of new leaf springs...and will make handling somewhat on the tricky side to say the least.

You can check for play in the steering rack by moving the steering wheel from side to side, while somebody holds the road wheel. If there's a lot of play, then it's likely a new rack is needed.

Not much play probably just means worn trackrod ends.
"Capri suspension bushes don't cause too many problems.
However, one area you should definitely check on the suspension is
the front mountings of the rear springs...they can go very rusty."

Brakes

It's simple enough here. "If the brakes work as they should, then they're probably okay. But even if they're not, everything is very cheap and simple to put right," says Roger. However, just give whatever pipes and hoses you can see a good perusal, and look for leaks as well as a low fluid level in the master cylinder.

HISTORY

1964 Ford of America launches the Mustang, to instant and very financially satisfying success. Within six months of the "Stang's appearance, plans are putinto motion to try and repeat the trick for the European market with the idea dubbed Proiect Colt.

1965 Styling models of the Colt are built by Ford's three main studios in America, Britain and Germany, It's the US concept that eventually wins the day.Little surprise then that, in looks, it owes a lot to the Mustang that inspiredits conception.

1966 The first working prototypes are built, after the Colt has been refined following customer clinics. Already in place are obvious future reference points such as the 'hockey stick' side moulding and the dummy louvres just in front ofthe rear wheels.

1967 A couple of last minute changes are instigated to make the new sporty Ford the cave know and one today in response to comments about claustrophobia, the C-dhaped rear window —one of the todemarks of the production care. In incorporated and he name changes from Colt (already used on a Missubidik, alt those heady days when the USA and Europe were completely uniform with Japance auto imports) to the already-used but now defunct Capit.

1969 The Capri is unveiled in a ceremony in Bonn – then the capital of West Germany – on January 21. Initial models in Britain are the 1300/1300f (1298cc 4-cylinder) and 1600/1600GT (1999cc 4-cylinder) and 1600/1600GT (1999cc 4-cylinder), with the 1996cc V4 engine from the Cossair joining the

4-cylinder), with the 1996cc V4 engine from the Consair joining the line-up in March. European cars use entirely German V-configuration engines: three V4s of 1305cc; 1498cc and 1698cc, and two V4s of 1998cc and 2293cc. The really hot Capri – well, for this year at least – arrives in September in the form of the 3000GT featuring a 3-litre V6 "Esset engine of 128bho."

1970 Ford's obsession with the letter "Fresults in the 3000E, the top-of-the-range Capri with such joyous lozuries as...drum roll please...a vinyl roof, push-button radio, heated rear window, cloth seat inserts and even rear quarter windows that open! Power goes up on the 1300 and 1600 engines.

1972 The range receives a facelift with 152 modifications carried out. The old 1600 Kent engine is replaced by a 1600 Pinto unit.

1973 The millionth Capri is built, a little ahead of production of the RS3100 beginning. The Essex V6 is stretched to 3091cc to give 148bhp for this homologation special.

1974 The Mk1 Capri is superseded by the Mk2. Slightly larger in size and with a smoother body, the most significant change is the hatchback at the rear. Engines remain much the same as before, albeit with the 1996cc V4 of the 2-litre car changed to a 1993cc Plinto.

1975 The limited edition Capri S, based on the 1600GT, debuts, complete with all-black paintwork and darkened brightwork, with gold trim, gold badges and gold alloys. It soon becomes known as the 'Midnight' Capri. Lush...

1977 Time for ultimate flamboyant Capri 2, in the form of the Series X, with the 175bhp version of the 30005 V6 engine, improved suspension and brakes, and an extremely in-yer-face bodykit.

1978 The Capri 2 goes out of production, to make way for the Mk3 range.

Contacts

Clubs

- Capri Club International. Tel: 01386 860860 or www.capriclub.co.uk
- Capri Mk1 Register. Tel: 01676 541355 or www.caprimk1 register.co.uk
- Capri Mk2 Register. Tel: 01707 336343
- or www.freenetpages.co.uk/hp/capri2reg/ster/index.htm FordCapri Enthusiasts Register. Tel: 0161 762 9952
- Independent Capri Enthusiasts. Tel: 01259 753203 or www.jcecapris.co.uk
- The Ford Halewood Capri Register. Tel: 0151 495 3855
 Capri Club Scotland. Tel: 01555 894133, 07741 056308 or www.capriclubscotland.co.uk
 - Scottish Capri Club. Tel: 01324 626162 or www.scottish-capri.co.uk
 - Classic Ford Owners Club.
 Website: www.classicfordownersclub.com

Spacialists

- Capri Care, Bucks. Tel: 01908 365560
 ASJ, East Midlands. Tel: 0115 9705 693, 07799 322354 or
- www.asj-enterprises.com

How much?

Fords generally aren't pricey classics – there were always too many of them around for values to ever sky-rocket. However, one particular type of MRI Capri does actually scale the heights marked expensive, and that't the RS3100. Potent and in groduction for just a year, very agood examples can easily reach £8000 or more. However, with just 200 made, it's hardlysurprising that these Rallye Sport cas are way above their counterparts in value terms.

Back in the real world though, Capris don't demand a lot of moment. The Mk2 is something of an univoled sandwith filling between the Mk1 and the Mk3 Capri - think of it as supermarket budget cab paster - and so examples of it are the Chappet of the lot Vou can be up and running in a reasonable Capri 2 for just less than a thousand. See that the companion of t

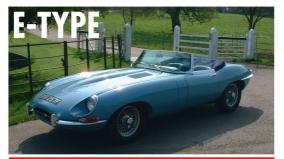
Verdict

The Capri is a love/hate car...and there's little point in us trying to convince those who believe a proper classic needs an upright chrome grille, lots of wood and leather inside and a five figure price tag, that they'll ever enjoy a tacky, tinny old Ford coupé.

But these days, as the Seventies becomes a much cooler decade than its cutally was at the time, those on the side of the Capir far contweigh those who don't appreciate it. Its slightly that sandy range a light and I may not be a more than 1 may not m

We like the Milt's because they are the Capri as Ford always intended, and the fussy bits like the 'hockey stick' side swathe and fake louves are all part of what makes the Milt so great. However, we like the Milc because of its price...and, whichever way you look at it, that hatchback is very useful, especially if you've ever tried to the control of the cont

manoeuvre arything remotely sizeable into the boot of a Mk1. However.one thing we really like, whether it is installed in a Mk1 or a Mk2, is the 3-litre V6 engine. The Capri is a natural home for the Essex V6, and it does its job well. Perfect for getting the tail out...in the right conditions of course.



Engines



THE engines need to be looked after, with regular and professional services, to give their best, so check for evidence of this in the paperwork. They're all pretty tough units – the V12 in particular – but if they've been abused, it can lead to very expensive repairs being necessary.

If the usual signs of wear – blue smoke, worrying noises, overheating – aren't then, then check the oil pressure gauge on the dashboard. If it is showing something like dops at \$000pm, then all should be okay, although given the notoriety of E-type clocks to give slightly false readings, it's not a cast-iron quarantee.

Don't expect any XK engine to be oil-tight. Some of the whole old Jaguar thing is that you'll never have a spotless driveway again if you own one...but you won't actually mind too much. Part of the problem is due to overfilling – the original dipsticks actually read three pints too much at their maximum point, so

you won't actually mind too much. Part of the problem is due to overfilling-the right dipsticks actually read three pints soo much at their maximum point, so when the engine runs, the overfill makes a break for feedom. However, even if you top the car up properly, small leaks are still likely. The main one to worry about though is the rear 'rope' seal... If it is letting gold unbudy, then the engine needs to come un-

We mentioned overheating previously, but we'll talk about it again because this is a vital point. After your test drive, leave the car fulling and listen for the electric fans to fair—as there is only one on the 1S1, it should cut in at degrees, and then go off again at 72 degrees. Be wany of an electric fan that stays on all the time...because it means that something is wrong with the cooling system and the car is running very hot.

The Series 3, with its alloy V12, needs regular coolant changes to protect the aluminium head from corroding. You may even be allowed to see the head's weating liquid if things are too far gone inside. A good pointer to the state of the engine internals is to check the colour of the anti-freeze. If it's a tosty, muddy colour, then there's a lot of muck inside.

It would be nice to check oil pressure using a mechanical gauge, but if the dashboard one reads 60psi at 3500rpm, it's a good sign.

Specification

51 3.8 coupe/roadster 1961-64 3781cc 6cyl DOHC 265@5500	\$2 4.2 2+2 coupe 1968-70 4235cc 6cyl DOHC	53 V12 2+2 coupe 1971-74 5343cc V12
3781cc 6cyl DOHC	4235cc 6cyl DOHC	5343cc V12
,		
265-5500		
205@5500	265@5400	272@5850
150mph	136mph	143mph
7.2 secs	7.4 secs	6.8 secs
4 spd man	4spd man/3 spd auto	4spd man/3spd auto
18mpg	17mpg	15mpg
	150mph 7.2 secs 4 spd man 18mpg	150mph 136mph 7.2 secs 7.4 secs 4 spd man 4spd man/3 spd auto

telescopic dampers, anti-roll bar. Rear: independent via lower wishbone, radius arm, twin

Parts prices From David Manners

Exhaust system, stainless steel, 73 and 2 from £365.00 stainless steel, V12 from £349.00 stainless steel, V12 from £400 stainless steel, V12 fr

A legend in its own lifetime, RICHARD GUNN looks at buying the Jaguar that everybody wants, but few are brave or rich enough to actually get. This may help you with the former...

Suspension

MOST self-respecting E-types will be on wire wheels...all very nice to look at, but do check the condition of the splines by running your fingers over them, feeling for loose ones. And bear in mind how much of a nightmare it will be to look after chrome ones and keen them clean.

The steering should feel tight and direct, with little play apparent. If there is, then the likely cause is the Metallistic rack mounts. Use a good quality replacement, as some cheaper ones just aren't up to the job.

Power steering isn't a plus on these cars...in common with a lot of Jaquans; it very light and makes an E-type very prone to oversteer. The cars feel just right with the wheels unassisted. Verdoo permitting and he should if by quire buying such an expensive can, jack up each wheel in turn to check for play in the wheel bearings and suspension bushes, Grasp diagonally and try to rock. The rear ones are the most important, as

before this stage.

If the back squirms when accelerating out of a corner, then suspect that the axle cage mounts are past their best, follow up any suspicions by looking for soft or broken mounts after taking the back wheels off.

Interior

ATHOUGH practically everything is available for an E-type inside, priesc an be high, especially if you're having to consider re-doing the leather upholstery. At least there's no wood to worny about as in other Jags of this sea. Check around the sills for signs of water damage to the trim and carpeting. If there is some, then un cight the door pariel and look for a polythene sheet between this and the door frame. This should stop water getting into the car., and if it is missing or not fitted properly, then water will must be over the sills. Sodily, too few leaking hood on a related or a leaking heater per be leithed the build made an engine-out job to fit. The floorplan in general should be examined all over.

Check the vertical panel behind the rear seats. It's got trim over it, but give it a good poke to feel for crunchiness, especially around the bottom end where the inner seals are. Back up any assessment of this area by looking for rot at the front of fear wheelarches, too.



Bodywork

The bodywork is the most significant aspect you need to check on af-type. As beaufith as the cars look live have also an injulificant to restore properly, and because doing the job properly can cost a fortune, many just simple on the task and do a quick makeover. Welcome to the world of filler if a great guide to the general condition of a car is also to look under the filter cap—if a car has sent and the proper condition of the car is also to look under the filter cap—if a car has sent colour as the east of the car if there give the car if the car if the car if the cap is the car if the cap is the car if the

Before anything else, stand back and look at the panel gaps. They should be fairly uniform all the way around. Any large gaps should be investigated thoroughly, and major opening panels such as the doors or the bonnet should sit straight all the way round. That's for restored cas of course. Original cars can be forgiven the odd sign of slippage after 40 years, assuming there are no other major problems.

The outer bodywork can not quite easily, unfortunately, so check reverywhere, such as the dones, bootled and the very expensive bonnet, which sin't something you want to have to replace (or realized). But can sein around the seams, and the bonnet should also open and close easily without you having to struggle. The front values in a spring easily to the support of the seam of

Under the bonnet, look at the tubular frame that the engine and supension are mounted to It's a sort of subframe – but not quite. These tubes can nust from the inside, which will eventually lead to them cracking, so examine them from very close up, using a torch and one of those handy little mirrors that dentists are so fond of, to see the less accessible areas. This frame boths to the bullehead and the mounting points can occasionally suffer problems, especially the one under the battery tray which is attacked by acid.

Gearbox

THE Moss gearbox – found on 3.8 cars – has no synchromesh on first, and isn't a widely-liked transmission. They can get noisy as they age and also display a tendency to jump out of gear...and parts aren't that easy to come by either if a rebuild is necessary.

From the advent of the 4.2 litre, the cars were fitted with allsynchromesh Jaguar-built gearboxes, which were altogether much better and for which parts are more easily available if things go wrong, Automatic gearboxes – Borg Warners – are pretty robust, and so long as the unit is moving up and down amoothly, all should be well...although you could always check the oil to see if

it is a healthy red colour and not burnt brown or smelly. Clutches will probably feel heavy, but that's just how they are. Do feel for clutch judder or slippage though, and bear in mind

that replacing the clutch is another engine-out job.

Underneath

GET underneath to check for structural problems, paying particular attention to where the radius arms connect to the floorplan. Corrosion here is dangenous, and if repairs have been carried out, they should have been done to a high standard, not just plated over. To only real solution to rust here is to strip the body down and then put anything right - not exactly cheap.

Brakes

IT is very advisable to check the rear brake discs and pads. These are inboard and can easily become contaminated by oil from a leaky differential, resulting in an almost complete lack of assistance from the rear anchors

Handbrakes rarely work that well. Often it's just poor adjustment. of the complicated linkage, but more of an issue could be worn handbrake pads. If this is the case, then it's something you need to drop the rear axle for. Not fun at home - or cheap if farmed out.

The car should pull up straight and quickly when out on the road (although Series 1 cars don't have the best of brakes). If there's a pull to one side, suspect a seized calliper, especially if the vehicle hasn't been used much. Don't be surprised (in fact be very happy) to find that an E-type's brakes have been uprated. The price of a new bonnet can lead this to become a pre-occupation with E-type owners

To check the servo unit on 3.8 cars, with the engine running, press the lever that is on the front of the device under the bonnet. It should concertina and the brakes will come on. That's if it is working obviously.

HISTORY

1956 Under the direction of Jaquar chief engineer William Heynes. Malcolm Saver begins work in December on the first E-type prototype. Dubbed E1A (standing for E-type, 1, Aluminium), the car shows clear D-type influences, but is a larger creation. At the moment, it only has a 2.4 litre XK engine

1958 A second E-type is completed, looking more akin to what will eventually be unveiled by Coventry. This one is known as the Pop-Rivet Special, thanks to its steel shell being held together by rivets. 1960 A racing version of the E-type - the E2A - is completed, and

used to race in Le Mans, driven by Briggs Cunningham 1961 The E-type - in coupe and roadster form - is launched at the Geneva Motor Show, to the general amazement of all those who witness the birth of this extraordinary new British sports car in the metal. Even more wonderful than the looks are the handling and performance thanks to the independent suspension and the 3.8 litre 265bhp XK engine capable of propelling it up to 150mph...or at least, so long as the press cars have been suitably tweaked by Jaguar first. A little under that level is more feasible for everyday cars, but the qualities of the E-type is still amazing for something costing only

1964 Engine capacity goes up from 3.8 to 4.2 litres, although horsepower stays the same. Torque does, however, go up, the brakes are improved and an all synchromesh Jaguar gearbox - in place of the previous, rather ponderous Moss unit - is fitted. Inside. adjustable seats make an appearance.

1966 A long wheelbase 2+2 model becomes available - although the back is best left to small children or adults of diminished height. This 'family' E-type also has the option of an automatic gearbox, to help boost US sales.

1967 New American regulations start to rob the E-type of some of its beauty, with the headlamp cowls being removed to allow better lighting. These cars retrospectively become dubbed Series 1 1/2

1968 The Series 2 E-type has raised, one-piece bumpers, a bigger front air intake, larger indicators (now below the bumper instead of above them) and redesigned back lights. And those headlamps are still uncowled.

1971 The Series 3 E-type has rather more radical changes, in the form of a Jaguar's new V12 engine of 272bhp. This results in an even bigger, chrome-barred air intake and flared wheelarches, giving the E something of a middle age spread. In order to accommodate the heftier engine, the 2+2 chassis is used, with only the roadster and the 2+2 coupe now available. The roadster now also has an automatic

transmission option. 1974 The final E-types roll off the production line at Browns Lane, with the last car completed in September. The last 50 cars are finished in black - except for one green one - and have a numbered dashboard plaque with William Lyon's signature on it. Replacement for the E-type is the XJ-S, which, in the opinion of many, isn't actually

Contacts

- Jaguar Enthusiasts Club 0117 969 8186 or www.jec-org.uk
- Jaguar Drivers Club 01582 419332 or www.iaguardriver.co.uk
- Jaguar E-type Club 01584 781588 or www.etypeclub.co.uk Magazine
- Jaguar World Monthly, Kelsey Publishing 01959 541444 www.jaguar-world.com Specialists
- David Manners, West Midlands 0121 544 4040 or www. davidmanners.co.uk
- CF Autos, Kent 01322 387929
- SC Parts. West Sussex 01293 847200 or www.scparts.co.uk
- M&C Wilkinson Ltd, 5 Yorks 01777 818061 or www.iaguar-spares-uk.co.uk
- Classic Motor Cars Ltd, Shropshire 01746 765804 ■ Marcus Barclay, Bucks 01753 885582
- SNG Barratt, Shropshire 01746 765432 or www.sngbarratt.com
- Classic Jaguar Racing Ltd, Sussex 01797 224555
- Flying Cat Engineering, Herts 01767 631731 ■ West Riding Jaguar, W Yorks 01924 494400
- Fullbridge, Essex 01621 852320 ■ Haywood & Scott, Essex 01268 727256
- Classic Touring (rental), Kent 01892 529152

Marketing Trends

£55,000 - £44,000 - AS a classic with one of the best claims to the title of 'the world's sexiest car,' no E-type comes cheap. There are just varying levels of expense, with the roadster the most financially demanding of all the cars, the coupes occupying the middle ground, and the 2+2s the cheapest of the bunch...although don't confuse 'cheap' with 'bargain'. They're still pretty pricey cars to purchase. The biggest money goes on the earlier cars, too...If you want a pure E-type, with cowled headlamps, it will cost you guite a bit more than one without these

An E-type is one of those classics that is - almost - an investment, so long as you stay on top of its care and maintenance. There will always be a demand for these cars, and it's never likely to go away. The E-type price trend has more or less always been upwards, and it's only likely to continue that way, despite some of the underpriced examples that occasionally pass through auctions. There's usually a good reason...

Verdict

Whichever model you choose is going to be an utterly exhilarating classic. Even if you get a complete wreck and just have it on your driveway looking pretty, so you can sit in it at weekends and make 'brmmm brmmm' noises, an E-type is still likely to be more exciting than a lot of other, fully-functioning classics. They're that sort of car...they look like they're travelling at 100mph even when they're standing still

The 2+2 is the cheapest entry ticket into this most exclusive of clubs, but if you've really got your heart set on an E-type, then you'll already have your own, very set ideas on what you want already. So our best recommendation is simply to buy the best example you can - look for great bodywork and, in the case of the S3 cars a healthy V12 engine too. Otherwise your big cat dream will all too rapidly become a very cataclysmic financial nightmare instead.

Insurance quote

For an £11,000 1968 Jaguar E-type S1 1/2 2+2 based in Peterborough ■ Fully comp, £100 excess: £448 for 29 year old, two years' NCB, clean license,

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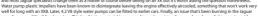


Engines

Available from launch with a 4.0-litre, 32-valve V8 engine, this unit was a departure from the silky smooth straight sixes used by its predecessor. The supercharged version, introduced two years later, is even more sporting, with an engine note that's accompanied by a distinctive supercharger whine. The supercharger employed on these

V8s is pretty basic but well engineered and we've yet to hear of one break. One issue to be concerned with is the upper timing chain tensioners - comprising a small plastic retainer, they can occasionally break leaving the chain running unsupported, which could very quickly result in it skipping a tooth and, in the worst case scenario, break and therefore destroy the engine. The timing chain tensioner design was changed

progressively throughout the years (ones designed for the later 4.2 V8 engine are best), and most Jaguar specialists change them as a matter of course before selling on an XK but it's worth asking the question nonetheless



well to forely with an Asc. Later, 4.7 vs type water pumps can be retted to proceed our species of the part of the

Specification 4.0 coupe/conv 4.0 supercharged coupe/con-4.2 coupe/conv 4.2 supercharged coupe/conv Year 1996-2002 1998-2002 2002-2005 2002-2005 Engine size 3996cc, DOHC 3996cc, DOHO 4196.DOHO 4196.DOHC BHP/RPM 290@6100rpm 37086150 300@6000 Top speed 155mph (ltd) 155mph (ltd) 155mph (ltd) 155mph (ltd) Gearbox five-speed auto five-speed auto six-speed auto six-speed auto Consumption 24.1mpa 22.5mpg 24.9mpg 22.9mpa Suspension: Front: Fully independent with unequal length double wishbones mounted to fully isolated front cross beam. coil springs, telescopic dampers and anti-roll bar Rear: Full independent double wishbone incorporating driveshafts acting as upper links, concentric coil springs,

dampers and anti-roll bar

It's barely reached its tenth birthday and yet there's no doubt that Jaguar's XKB has already developed a following fitting for a classic car, with growing club representation and specialists who look after them. PHIL WEEDEN shows what to look for when buying one of these merging icons

Wheels

The XK8 came on standard 17in rims, while the XKR sported 18in alloys. However, a vast majority were upgraded, with most normally aspirated cars upping to 18in rims (the car looks much



better for it) while some R models went up to split rim BSS alloys of Join diameter. All are often susceptible to kerbing so take a closer look and budget for a refurb all-round if necessary licetween £60-180 per comer). The standard fit Pirelli tyres produce plenty of ging and seem hard warring enough, but they do generate quite a bit of road noise and these XXSS are known to traniline on motorways. They've also expensive to repelace - between £159-200 per comer.

Brakes

This is a car that tips the scales at around 1700ig G1700ib to you and it jo of an XXIS been driven hand, it is probably had to brake hard saved no occasion. Consequently these ponting Jaquasc can or backage abof. Read file is laways progressive rather than sharp but they should pull the car up nice and square with no vitation or loss of false. A for people upgrade the brakes. Bernho was the favoured make direct from the factory but the likes of AP Performance and His Space are allow worth considering. If there is one upgrade we'd recommend on the XXI, it would be the takes.

Suspension

The rear suspension is derived from the X300-style XJ saloon, while the front was an all-new setup for Jaguar with self contained spring/damper assemblies. Typical to the marque, though, the trouble often boils down to the amount of rubber used beneath to give it the supple ride these cars are renowned for. A-frame bushes at the back, lower shock absorber mounts, front wishbone bushes and ball joints are areas that are susceptible to wear and tear. They dry and perish over time and the ride and handling therefore subtly diminishes. Parts are easily available and therefore replacing all of this is not too tricky nor expensive, but make it part of your inspection and budget for any replacement. It'll be worth it, as it will transform the driving experience from a wallowly old barge to the much tauter, sporting GT it was always meant to be, Finally, front wheel bearings can wear out from as low as 40,000 miles They're not that hard to replace but a special tool is required.

Parts prices

Prices courtesy of David Manners Ltd, Tel: 0121 544 4	040
Front wheel bearings	£19.50
Front brake disc	£33.00
Timing chain tensioner	£9.25
Timing chain	£25.00
Wishbone bushes	£4.50
Shock absorbers (non CATS)	£105.00

Gearbox

The XXX came with only one transmission, a dual mode ZF automatic box. Fee speeds is po 200M/KF, sepeeds beyond that. The early box was subject to a couple of recalls regarding it loosing forward geas and one, nather worstly, where it appeared that there was a danger the car could larch into revene! This properties was a danger the car could larch into revene! This properties was a danger that car could larch into revene! This properties was believed. Deck that the peachtnage is smooth, that kiddown is employed effortiesly if it should be more immediate when 5 port mode is selected and that trevene engages smoothly and swiftly. Any disconcerting clonking or small of geathod of should be treated with concern. Os superlanged models, and of should be treated with concern. Os superlanged models, the contracting contracting that has been known to last through an O-level in transmission.

Bodywork

While the XK resists rust far better than the XJ-S ever did, there are now a few cases of floorpans requiring replacement sections. There's a double-skinned section up by the footwell, which traps water and ultimately starts to corrode. It's relatively minor and easy to repair, but it's worth keeping an eye out for it. One area that isn't affected by rust but is by stone chips is that exposed nose cone. Some specialists we know of have this resprayed before sale. Keep a lookout for any dodgy accident damage, Check colour match on the bodywork, see if all the glass is original, assess the door shutlines and run your eve down those curvy flanks to look for any ripples or imperfections. The only other thing worth looking for while you're inspecting is the door glass. It's meant to drop as you open the door and then slide up again when you close it: however, sometimes the second half of this function fails and you have the amusing scenario of being able of open the window just by opening and closing the door a few times.

Interior

Despite externally being a large car, the XX8 is rather cosy inside, with hardly any space for back passengers despite there being a provision for them. The interiors are a simple



design and generally hard warning. There were different choices of wood feels — hard warning. There were different choices of wood feels—hard walnut, ger maple and ein despending on model, while some had gelit wood feel the steering wheels, as a summar and pedde were available from various aftermarket providers pretty much from when the car was new and available from the factory from when the car was new and available more than the factory from the factory form the factory from the factory in the peeds, while the morbal central locking can be temperamented. The form seats were made more the early versions.

Contacts

- Jaquar Enthusiasts' Club, tel: 0117 969 8186, www.jec.orq.uk
- Jaquar Drivers' Club, tel: 01582 419332, www.jaquardriver.co.uk XKB/XKR Enthusiasts Club, tel: 01474 354623, www.xkec.co.uk
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- www.paragondesignuk.com ■ Classic Additions Tel 01938 561717 www.classicadditions.co.uk

1989: After much stalled development work (the project was first pitched in 1979), test mules of XJ41 are available for management to drive. The project has evolved enormously and the original styling has had to adapt. so it no longer looked as svelte as originally intended. It has also gained weight, Around the same time, Ford acquires Jaquar Cars and one of its first decisions is to scrap the XJ41 project for being too expensive, too heavy and not desirable enough.

1991: A facelift XJS is launched as a stopgap, while a new replacement project gets underway, dubbed X100.

1996: In a move that mimics the historic unveil of the E-type 35 years previously, the XK8 is revealed from a wooden crate at the Geneva Motor Show in March. The convertible is unveiled a month later at the New York Auto Show. Further details are revealed throughout the summer with the official onsale date scheduled for the October, It's available with an all new 4.0-litre V8 engine mated to a five-speed ZF automatic gearbox - just one

1998: The XKR is unveiled. Featuring a supercharged version of the 4.0-litre V8 engine, it's available in coupe and convertible and comes with Jaquar's CATS adaptive damping system as standard.

model in two bodystyles is available from launch.

1999: Adaptive cruise control, which helps vary cruising speed in order to maintain a safe distance to the car in front is available for the first time as part of a minor range review.

2000: To mark Jaguar's ill-fated entry into Formula One, the XKR Silverstone is launched in the spring, available only in Platinum Silver paint work in coupe and convertible forms. Comes with bespoke badging, uprated brakes and a high level of equipment. Later in the year, the 2001 model year cars are unveiled, featuring a revised rear end with chrome trim around the tail lights and a similarly finished number plate plinth. Revised nose now has fared in fog lights. Inside gets bigger seats while new colours and new alloy wheel designs are also available.

2001: Celebrating 100 years since the birth of Jaquar's co-founder, William Lyons, the XKR 100 is unveiled. In Anthracite paint work and wearing bespoke badges just 1000 were made, split between coupe and convertible. Featuring a special interior with aluminium trim around the gauges and pear lever surround - it's the most exclusive XK yet

2002: The 2003 model year cars are announced in the September, featuring a new 4.2-litre V8 engine and six-speed automatic gearbox. The normally aspirated car now boasts 300bhp (up 10bhp) and the supercharged car a staggering 400bhp (up 30bhp). New look Xenon headlights are optional to give it an even more menacing face. More equipment, more interior trim and alloy wheel choices are now available.

2004: Eight years since the launch of the XK8, a final facelift is unveiled. Featuring a revised nose with new lower spoiler design and matching rear and side faring.

2005: Celebrating another triumphant season of Trans-AM racing in the USA, the XK Victory Limited edition is launched Stateside. This translates to the 4.2 S models this side of the Atlantic, available in both standard and supercharged guise, coupe and convertible, this is very much the runout model in the same way as the Celebration models were for the XJS. Production of the XK ends in the May, after over 90,000 models were produced, making it the most successful Jaquar sports car of all time. 2006: The all-new aluminium XK goes on sale

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 - www.lespaulsmotors.co.uk ■ David Manner (parts), tel: 0121 544 4040, www.davidmanners.co.uk
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 - West Riding Jaguar Tel 01924 494400

Market Trends

Now it's out of production, the XKB/R is passing into that phase where prices will vary enormously. From a real down-at-heel example worth £8000 to a fully specced out last of the line worth £55,000. Prices will inevitably tumble for the time being, while the market becomes flooded with XKs that have been traded in for the all new model. But slowly but surely, as happened with the XJ-S before it, the really good ones will start to firm up in price, while the real dog rough examples will collapse into obscurity. That's why now's the time to buy - there are loads around and prices are still keen, so you can afford to be ultra choosy.

Driving

The XKB and XKR are no Porsche chasers, so do not expect a hard. sharp edged sports car. What you have is a finely honed sporting grand tourer. Well set up, these heavyweight coupes can still hustle along at a surprising rate of knots, with good composure through corners, reasonably weighted power-assisted steering, excellent grip and a compliant ride. Refinement is excellent and comfort is beyond reproach. This is a car that can handle thousands of miles with consummate ease. Convertibles suffer from scuttle shake, so we prefer the coupe for the driving experience even if the soft top nabs it for pure desirability. The XXR is fiendishly fast, so beware of your clean licence, which might not stay that clean for long with perpetual exploring of the R's upper limits. The instant acceleration and thrill of kickdown is an addiction that can be hard to shake. Standard on XKRs and optional on the normally aspirated was Jaguar's CATS active damping, which firmed up the suspension at speed. Some people find this makes the ride too firm too firm for a Jaguar at any rate. Another factor which influences that legendary 'magic carpet ride' is fitting larger wheels. The XK's high ride height means that many people opt for lowered suspension and bigger, 19- or 20-inch alloys, which affect the ride noticeably. It's still a great car to drive, though - a brilliant boulevard posemobile, or stylish crosscontinental cruiser, the XK8/R has driver appeal in spades.

Verdict

A Jaguar which doesn't rust and is generally reliable - it will never catch on! The good thing that, despite this newfound longevity, the XK is still truly desirable, great to drive - fast or slowly - and there are plenty about so you can afford to be picky. There's a wealth of specialist supoprt for these vehicles and they're already proving to be a classic in waiting, so we reckon you should get in there now while there's still a flood of good ones. Choose a 2001MY on for the better cars, convertibles obvio fetch more money and, for true collectors status, pick a limited edition model such as an XKR 100, Silverstone or 'S' runout model.

Insurance auote

For a £12,000 1996 XK8 4.0 coupe, no modifications, based in

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JAGUAR XK150

Driving



By the time the 150 came along, the XK range had grown up - matured, even into more of a GT car than an out-and-out sports car. But never mind, because these are still thoroughly entertaining and enjoyable cars to bask around in.

even if they are a little on the heavy side. There's still a big element of chuckability to them, coupled with the slightly tail happy characteristic that give just a touch of uncertainty on fast corners or in wet weather. But

that's all part of the fun in a way...just the sense of unpredictability. What is predictable though is how they behave in a straight line. With that

classic 3.8-litre warhorse tucked away beneath the bonnet, the power and torque is considerable, so one of these will still be capable of surprising and embarrassing many a newer, supposedly sportier car, while also being perfectly at home burbling around town at a sedate manner. Whatever your velocity though, one thing you can be sure of is that, thanks to

stopping capabilities to help keep you out of trouble!

Engines

The engine is the XK of course, but it does come in varying levels of intensity. There's the standard 3.4, the 'S' version with a few nips and tweaks, the Special Equipment model with a lightened flywheel and cylinder head changes, and then it moves up to the 3.8, in standard and 'S' specification. But basically, most potential maladies are applicable to all the engine types

On these big-engined cars, overheating can be a problem, so monitor that needle on any test drive. One reason for this could be rusty core plugs, something these cars can be afflicted by quite easily. So look for rust streaks around them in the engine bay or, if the trouble is really quite bad, actual weeping. On some cars you'll view, you may find an electric fan has been fitted. It's actually quite a sensible modification - so long as it has been done properly, and isn't being used to simply mass inherent temperature problems. Because these cars are so low to the ground, the exhausts can be easily damaged, and a leaking system will sap power as well as be very noisy. If you hear a whistle though, it's a leaking manifold...so long as you're not hearing the dynamo or water pump complaining of lack of lubrication. The water pump is guite a tricky one to change

If you hear some tappet noise, great, if you hear a lot of tappet noise, not so great, but be wary of no noise at all, as it implies the clearances have closed up and there's valve seat recession.

Rattling timing chains are guite common, but if it is coming from the bottom chain, then be prepared to have this done soon, Otherwise the tensioner block can drop out, allowing the chain to come off, and result in a major engine rebuild. A misfiring engine may be simpler than you think - because of its position in the engine, the distributor cap can come off, and it's not easy

to reach and put back on. Have a look...just in case. A potential cause of an uneven tickover is more likely to be badly adjusted carbs - they can be difficult to balance - or worn spindles, which cost a lot to replace.

Don't expect any XK engine to be oil tight. It won't be, and in a way, that's all part of the charm. So long as it's not gushing out and oil pressure is around 45psi at 70mph, then all is probably quite well. Rear crankshaft oil seals can develop leaks (which will make the clutch take up less than smooth) and to put it right means taking the engine out.

Specification

-				
Car	Jaguar XK150 3.4	Jaguar XK150 3.4S	Jaguar XK150 3.8S	
Year	1957-1960	1958-1960	1959-1960	
Engine size	3442cc 6-cyl DOHC	3442cc 6-cyl DOHC	3781cc 6-cyl DOHC	
BHP/RPM	190@5500	250@5500	265@5500	
Top speed	121mph	132mph	136mph	
0-60mph	9.5secs	8.9secs	7.6secs	
Gearbox	All models: 4-speed manual plus overdrive			
Consumption	20.5mpg	17mpg	13mpg	
Suspension:	All models: Front: Independent by torsion bars, wishbones, anti-roll bar, telescopic dampers. Rear: Live ade, leaf springs, telescopic dampers.			



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	Brake servo, reconditioned,	
-	Front brake pad set,	
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	Luminition electronic ignition	
	conversion kit,	£146.88
	Kenlowe electric cooling fan kit,	£138.42
	Three-piece clutch kit,	£158.63
	Fuel pump repair kit,	£33.38
	Fuel pump, positive earth,	£178.95
	Top ball joint,	
	Top wishbone bush,	
	Track rod end,	
	Koni front shock absorber,	£78.73
	Rear road spring,	

Gearbox

The Moss manual gearbox isn't the best-loved of Jaguar items, but it's tough enough. However, you should expect tired synchromesh—around second most of all—a swell as a ponderous gear change. Whining from first and reverse is quite normal, but if the gearbox is very noisy throughout the gears, then the transmission is on its way out.

Overdrive problems are usually just oil starvation or the electrical solenoid playing up. It's usually the latter, and it's not difficult or expensive to replace if necessary.

Suspension/steering

Because the 150 was a heavier car than previous XK

bedaute in P. 20 was a reserve can usin preventions as: incarnations, the treat springs can sag or even break. There is a way of checking that the ride height is as it should be, assuming for a srill has its original 17-inch wheels on, and not the 16-inch ones that are a popular fitting because their radial tyres are cheaper. Anyway, you should be able to get two fingers in between the tyres and the rear wheelarches. Anything less, and thins are opion a bit floorou undermeath.

Other things to look out for include worn Metalastik bushes – listen for clonks from the front end. Worn balljoints also make similar noises. Front wishbone bushes also go in time, and are hard work to replace.

Sloppy steering can be down to worn steering rack rubber mountings – you can try waggling each track rod end to see if the bushes at either end are slack. Alternatively, if you've got a friend handy, have him waggle the steering wheel, while you look at the rack and see if any of the wheel movement is getting lost.

If you hear a clonk from the rear, then expect loose shackles or U-bolts securing the springs.

Hub splines on the wire wheels can wear, likely to be more at the front than at the rear. Check by hand, and also lift off the throttle at about 30mph, then quickly apply power again. If there's a clonk from a relevant area, then expect all is not well. The security of the splines is quite important, as if they are too worn, the wheel can fall off under heavy braking. Which isn't a nice thing to happen.

After the hubs, check the spokes by tapping them with a screwdriver. Yes, it will take a long time to do all the wheels, but it's worth it, as a dull thud means looseness.

Brakes

Duck to loss on all four wheels we stalk a radical incovision on a ser of this case, opension with serve in admission to bit misman that the NRTSD should be very very good as tropping. If it not, then things need to be investigated. One possible suspect is the air filter for the serve islander to prossible suspect is the air filter for the serve islander to be the battery in the front weight, which can get clopped up. Examing it can do wonders unknown, which can get clopped up. Examing it can do wonders to be considered to be c

Bodywork

There's a mixture of materials on these cars: steel, aluminium (bonnet and bostilia) and even plywood (front floor). Obviously, the aluminium won't rust, but it can have a reaction where it meets steel, so look around such areas for signs of the metal going powder.

Before going in close, step away from the car to see that everything is hanging together as it should. The bottom of the wings and the cloors should like up well, and the top curve of the sides should be elegant and smooth too. A restored car where this into the case points to either a job not done as well as it could have been, or even subsequent accident damase.

Now it's time to go in and look for rust. Start around the battery boxes – there is one in each wing. These get attacked by battery acid and can get seriously corroded as a result. Turn the wheel on full lock each way so you can really have a good nose around undermeath.

Because the doors are heavy and the hinges not that strong, check for sagging doors and attempts to repair by cutting into the front wings. Rotten

A-posts can add to this – they tend to start rusting at the

A-posts can add to this – they tend to start rusting at the bottom, and then gradually start to disappear up towards the top. A lot of lift at the hinge will indicate this.

B-posts too join their A-post counterparts by starting to go crinkly from the bottom upwards, but there is at least a cover panel that allows you to look for any problems. Oh, and doors. Those things in between. The bottom four inches can start to go rusty, and frames can suffer problems on earlier XK150s that had wood at the too.

Rear wings where they attach to the B-posts can go nasty, and tinworm can also strike where they meet with the rear tub. Suffice to say, stills should be thoroughly checked out, as should the neighbouring floorpan, the bit that is steel, not wood of course. The metal section is under the seats.

Interior

As basic as there can are compared to other. Bigger Jaguars, will althe leather inside, they will cost a lost to retiriff in recessary. Upwards of £3500 is a realistic figure for a good job on a frond-had coupe. The leather can get damaged by objects in people's pockets, and because the dash has leather on it too, this can end up looking a little curify after a number of years. But there are no serious flaws to look out fix, and even if gauge do go up the sumery, then you can buy almost anything new for one of these areas on the serious days and the serious days and the serious days are the serious days and the serious days and the serious days are serious days and the serious days are s



Chassis

The chassis are strong enough, thanks to them being based on the Mk VVII frame. However, there are some weak points. The anti-roll bar mountings at the front go, as do the rails behind the rear aske. You might be able to see any trouble without even getting under the car – look for twisted bodywork from the front and bank, sure sign of a frame that isn't nearly as touch as it once was.

HISTORY

1948 It's the dawn of a new era at the London Motor Show, with the launch of an astounding new car. But enough of the Morris Minor, for the Earl's Court venue also sees the debut of Jaguar's 120mph-capable XK120 sportscar. Originally intended as a concept car to showcase the firm's new XK six-cylinder engine, such is the interest in the sexy, sleek new Roadster, that the decision is made to put it into production.

1954 The XK120 is updated into the XK140, although unlike the 120mph the previous car was capable of, the new XK can't actually manage to achieve 140mph. The looks remain pretty much the same,

although there is more room for both passengers and luggage.

1975 Tis time for htt XXIS Joal not, it act not 15 STomph, it would take its successor to schleve this magic figured, available in fland-head coupe and ordepend couper form. He design changes are more obvious than they were with the previous metamorphosis, with a single windocers and also sucrusecous wing line the main indications of single windocers and also sucrusecous wing line the main indications of which the single windocers and also sucrusecous wing line the main indications of which the single windocers and size survivales with the things of the size of

the Ansovani supplies a wear as it goes.

1958 A Roadster joins the team, and becomes very popular abroad, especially in places with much less rain than Britain. It's quite a primitive machine, but one bonus is that it comes in 'S' trim — which means a tweaked cylinder head, triple SU carburettors, a lightened flowheel and new manifolds.

1999 "Specification becomes available to the whole range, meaning that power now hovers around the 250bp mark. However, that isn't impressive for long, when the XX engine is enlarged to 3-8 litres and made available as an option. 265bbp is the figure now bandled about for that. There are a few brake changes as well to accommodate these changes, and, cosmetically, the bumper overrides at the back are moved more closely together and the rear lamo clusters are enlared.

1960 The XK line comes to an end, to be superseded by the E-type Jaguar. Well, if you have to replace a great car, you might as well do it with something even more spectacular... A total of 9398 examples have been built overall, with the grand XK total being 30,500.



Insurance quote

For a £22,000 1958 Jaguar XK150 fixed-head coupe, based in Peterborough

 Fully comp, £100 excess: £519.00 for a 29-year old, two years' NCB, clean licence, 10,000 miles, only car, kept on driveway, club member
 Fully comp, £100 excess: £80.85 for a 50-year old, full NCB, clean licence.

3000 miles, second car, garaged, club member

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Contacts

 Jaguar Drivers Club, Jaguar House, 18 Stuart Street, Luton, Bedfordshire, LU1 2SL. Tel: 01582 419332 or www.jaguardriver.co.uk

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- Flying Cat Engineering, Cambs. Tel: 01767 631731 ■ Marcus Barclay, Berks. Tel: 01753 885582 or www.marcusbarclay.co.uk
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- Leaping Cats, Coventry, Tel: 02476 313139 ■ VSE: The Jaguar Engine Specialist, Powys, Tel: 01597 840308 or

Magazine

■ Japuar World Monthly, Kelsey Publishing, Kent. Tel: 01959 541444 or

Market Trends

www.vse-engineering.com

The Jagus XXS30 is the chapper variant of original XX sportsca. But it alreliable, because none of these can see exactly, thep in the conventional sense. Co for a really nice hoadster, and you'll find yourself speeding the best part of 550000 to get one of the best. The time top can are a more financially resonable proposition, but you'll stifl day ourself a permany gwith a least healf of that 50 yaught the early cost is chapper speeding the permany for the set of the set of your fine of the set of th

anything except its around staining your driveway with oil and looking sorry for itself!

Add more to these prices if you're considering an 5' specification model – just that bit of extra power can raise prices quite a bit. For the 3.85 Roadster, you could spend up to £60,000. Delieve it or not. \$3,800,000 cay to have got a good XF, so long as you look after it, there shouldn't be any worries about losing money. Prices have been either constant or on the rise for years, and show no signs of stopping soon.

One of these Jaguars isn't exactly an investment...but it is at least

something you can enjoy while having to worry too much about how much money is disappearing off its ultimate value.

Verdict

If you've got the money to buy one of these cars in the first place, and concept to look after while you are its custodian, then its difficult not to recommend one of these cars! They're the thinking amm's alternative to recommend one of these cars! They're the thinking amm's alternative look as if not more so. The 15th operpreter the ultimate expression the XX sportscar line, with many improvements carried out that make it XX sportscar line, with many improvements carried out that make it to think cause on the companies and certain for the XX sportscar line, with many improvements carried to so, for different places are considered to the manifest of the sportscar in the companies are of the remaining examples are now web-cared los, to finding a prime of the remaining examples are now web-cared los, to finding a prime of the remaining examples are now web-cared los, to finding a prime of the remaining examples are now web-cared los, to finding a prime of the remaining examples are now web-cared los, to finding a prime of the remaining examples are now web-cared los, to finding a prime of the remaining examples are now web-cared los, to finding a prime and the sport of the care of

And what would are recommend? Well, we rather like the flace shead crope because the current of that the crope shear the crope she

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Buyer's Datafile: Jaguar S-type/420

THE Jaquar S-type/420 took the finer parts from its siblings, such as independent rear suspension donated by the Mk X and the legendary six-cylinder twin cam engine from the Mk2, but for some reason it never got the same credit, ADAM TAIT tells us what to look for and why you should buy one

AGUAR was on a roll in the Sixties, with the introduction of the Mk2, sporty E-type and larger than life Mk X. So what was it going to offer the public next? Well, William Lyons put the best ingredients of all three in an automotive food blender, waited until September 1963 and announced his new flavour - the S-type.

Given this car's moderate success, Jaquar looked towards another area of the luxury market

a few years later. Using the S-type as a base, the 3.8-litre engine was binned in favour of a 4.2. the interior was spruced up and a new front end was grafted on. And by October 1966 Britain had a more compact version of the sprawling Mk X, the 420. Visually it was a shrunken version that had the looks but could fit in a single garage and cope with country roads without occupying the oncoming lane as well.

3) BRAKES: Servos can fail resulting in a

heavy brake pedal. Check for the universal

faults such as warped discs, signified by a

Don't expect to find somebody of a large

4) SUSPENSION: Is it sitting square?

disposition sitting in the car, lopsided

420/5-types are signs of drowsy springs

bushes. Rear UJs can often be faulty due to

poor quality pattern parts. If the UJ doesn't

have a nice recess in the casting to house

the grease nipple then expect a short life

expectancy and a lively rear end! Jack the

5) BODY: lack the car up and put it on axle

stands. Crawling underneath, inspect the

petrol tank brackets for a wet substance

the fuel tanks. A pint or so of water can

if it is petrol then rust has taken hold of

accumulate over four years, which will rust

the tank inside out so make sure they get.

drained out. Replace the fuel filters every

10,000 miles and clean the filler breather

cross member, and Y-mount on the rear

signs of previous repair, such as filler. A

magnet will give away what material is

is a type of vinyl hide wannabe used on

later cars as part of a wallet-clenching

6) INTERIOR: Unsurprisingly, most of these

9928 PRODUCED

15,065 PRODUCED

10.236 PRODUCED

5934 990011/00

subframe for corrosion. Examine the front

Check the jacking points, sills, front

pipe using an airline

beneath the paintwork!

car up and try and rock the rear wheels.

if the camber angle changes then it's

and dampers or collapsed suspension

judder through the pedal.

applies to both cars. Daimler also got in on the act, renamed it the

cases are best left to a specialist, Sagging ■ Jaguar Enthusiasts Club headlining can be replaced but be careful 0117 969 8186 MAGAZINE when replacing veneer items as it is hard to find a close match. ■ Jaguar World Monthly - 01959 541444

The parts situation

THE word Jaquar usually sends a shiver down the spine when parts prices are spoken of, but thanks to a number of specialists catering for the enthusiasts spares are never thin on the ground. We spoke to independent Jaguar specialist Deek Watson to find out how much it costs to keep a 3.8 S-type in healthy condition

Olfiber £4.00 Air filter Rear III Rear spring Front spring £35.00 690.00 Brake pad set

Contact DADTO

■ Ken Jenkins Jaguar Specialist –

- Derek Watson Independent Jaguar Specialist-www.derek-watson.co.uk
- Hollygrove Jaguar 01425 477000 ■ Flying Cat Engineering - 01767 631699 Marcus Barclay 01753 885582
- West Riding Jaguar 01924 494400

Sovereign and subtly changed exterior features and adorned it in Daimler badges - further enhancing the 420's luxurious image If you are put off by the larger than life Mk X and prefer the Mk2's more elegant front end, opt for an S-type. Alternatively, for those that yearn for the masculine looks of the MkX without its huge dimensions, buy the 420. In the meantime we'd recommend reading this guide because it

or www.iaguar-world.com What should I pay?

PRICES kick off at around the grand mark for the 420.£1500 for the 3.4 S-type and add another £1000 for the desirable 3.8 model. For that money a restorati will be on the cards but scour the CCW classified sections for the occasional bargain. Our sister title, Jaguar World Monthly, has a rot free 3.8-litre British Racing Green example that needs finishing for just £1,500. Above that is a mint, 42,000 from new, 420 Daimler

Sovereign. The asking price? £4995. Should I buy one?

GUN for the manual 3.8 S-type in a luxurious shade like dark blue or the cheaner 420. It may not be a Mk2 and it isn't trying to be either. The S-type/420 offers more room and the hoot can consume more cool hoves and collapsible chairs, so it's perfect for shows and you can invite all the family. Comering won't be a chore either, the IRS makes it a joy. After all, these cars were the ultimate getaway motors in The Sweeney. I mean, who can forget the chase in Stoppo Driver with Regan's Granny and RBP 282E an S-type on steels? It's hard not to be a fan of that

on display when at the wheel To back up its classic status is the modern day remake of the S-type. Okay it may have a Lincoln LS saloon floorpan, but lanuar hasn't brought out a new model and named it the Mk2, has it?

le it a classic?

INDEED: Any Sixtles Jaquar is considered

a classic and although passers-by won't

know it, the S-type/420 does everything

better than the Mk2 barring straight line

performance, so a smug expression can be

What's out there? THERE are only four variants to choose from The 3.4 and 3.8 S-type in manual or automatic, the 4.2-litre 420 and Daimler Sovereign - the only difference being a fluted radiator grille with centre strip, and several Daimler badges. 420s are cheaper than the more sought-after S-type so from a buver's point of view they suddenly become attractive.

What to look for? LIKE most cars from the Sixties, don't expect your new purchase to be trouble

free. Rust is the Achilles' heel of any car. this age that hasn't been dry stored and wrapped in cotton wool from new. The 5-type/420 suffers from sagging suspension, petrol tanks that dribble fuel. oil leaks and corrosion. So pay attention, 1) ENGINE: XX engines are renowned for starting first time. A rattle at the front of the engine will be timing chains, the bottom

is controlled by hydraulics and increased wear can lead to the adjuster letting go. While you're down there, crawl underneath this could be a number of things such as a blocked breather pipe or worn main bearings. Be wary of noisy tappets, it could be a case of poor valve clearance but a more prominent sound could hint at tired tappet quides. A £62 retainer kit from Rob Beere Racing will keep them in place until the time is found to repair them. 2) GEARBOX: Ensure the Borg Warner

three-speed auto doesn't snatch from pull away and each gear can be selected with ease in the manual. A reluctant shift hints. at a worn synchromesh.

PRICE

£1669 NEW 1963-1968

£1758 NEW 1963-1968

£1930 NFW 1966-1968

MODELS

VEHICLE

3.4-LITRE S-TYPE

exercise Cracked leather can usually be treated but ripped seams and more severe ■ Jaguar Drivers Club - 01582 419332 twin-cam XK engine. DATE PRODUCTION COUNT

3.8-LITRE S-TYPE 420 SALCON DAIMLED SOMEBBIGN 74 CCW BUYER'S GUIDE



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LOTUS ELISE SERIES 1



Engines

Ah yes, the Royer K-series engine. Legendary for its cooling abilities, or rather lack of them, and not, perhaps, ideally suited to a mid-

engined car where air flow can be impeded. The big problem is, of course, a blown head gasket, but faulty header tank caps, worn-out radiators, air in the system, non-functioning fans, incorrect temperature readings can all cause the driver to get hot under the collar as well as the car. If the car you're contemplating does seem to be running warm, then it's vital that you investigate further. Overheating can easily prove deadly to the engine.

Back to those head gaskets, make sure you look for signs of water in the oil and vice versa, plus white smoke from the exhaust. Misfires and other smoke can be caused by the plastic intake manifolds leaking coolant from the o-rings (often mistaken for head gasket problems as the symptoms are the same), or cracked cylinders liners caused by constant over-revying. Either way, this is not the car for you, go and look elsewhere

Oil leaks can strike between the gearbox and the engine, thanks to failed crankshaft sealing rings. Cam belts should be changed every 54,000 miles or six years, but most experts advise doing this before that limit is reached, especially if an Elise has been enjoyed 'properly' in the past. Check service history to see when the cam belt was last changed on the example you're looking at. Throttles can sometimes stick open a tad between 2000 and 3000rpm, thanks to muck

building up within the 'butterfly' or the body of the throttle itself becoming a little distorted thanks to heat or the clip that holds the induction pipe on being replaced with a overtight jubilee clip as a result of a cone air filter being fitted. However, the ECU can also cause similar problems, although check out the mechanical faults first before blaming the expensive electronics. It can make a handy bargaining point though.

Fuel injection pump fuses on the older cars are only rated to 10amps (changed to 20amps for post 1998 cars). If this fuse blows - which it can do quite easily on pre-98 models - it will disable the car. Not so much something you need to know when buying, but handy to know so you can pop into a local motor factors before you drive home after buying an Elise.

Parts prices

All prices from Paul Matty Sportscars and Front clamshell including £321.40

£369.28

£98.03

£30.26

£372.35

£93.49

£275.20

£405.38

flamp bezels Engine cover assembly, allow nt bonnet release cable Engine cover release cable Ball joint, top and bottom Lotus original shock absort Head gasket Gasket, inlet manifold, non VVC. Oil pump assembly,

ming belt to Oct 1998 eering rack gaiter, Brake discs, iron,

Brake pads, front

Elise 340R/Exige Elise 135 Sport Year 1995-2000 1998-2000 2000 Engine size All Models: 1796cc 4-cyl DOHO BHP/RPM 118bhp@5500rpm 135bhp@6200rpm 177bhp@7800rpm Top speed 126mph 129mph 136mph 0-60mph 5 Score 5.4secs 4.4secs Gearbox All models: Five-speed manual

39.8mpg 40.9mpg 40.9mpg Consumption Suspension: All models: Front: Independent by double wishbones with single coil springs over monotube dampers, Lotus-patented extruded aluminium uprights, anti-roll bar

Rear: Independent by double wishbones with single coil springs over monotube dampers. Lotus-patented extruded aluminium uprights, toe link

Specification

The original Elise was a fast and frantic small sportscar harkening back to Lotus' fun and fancy free days of the Sixties, RICHARD GUNN delves into what's involved in buying one of these true driver's cars

Driving

It's fair to say that Lotus knows a thing or two about making cars handle. It's had a bit of practice over the years, with legends like the Elan, the Esprit and the Seven. The Elise fits in with such illustrious entries in the Hethel canon without hesitation - it is a car that combines all the best traditions of Lotus with modern, innovative advances in automotive engineering to create a pure driver's machine.

In these days of compromise, the Elise is something that simply doesn't make many concessions. That's clear from the moment you get inside the stripped-out, aluminium-trimmed interior, where even the radio and switches look like begrudging afterthoughts. It's all very Spartan, so if you're looking for luxury, look elsewhere. If you're looking for performance though, just

turn the key. It's from here that the technology plays a part - making this car almost as light as a feather. The Elise isn't prodigiously endowed with power, but that doesn't matter in a car this insubstantial. The K-series engine - particularly in VVC form - is enthusiastic and more than capable of pushing the Elise at an extreme rate of knots towards the horizon - the acceleration is little short of breathtaking in a car this compact. Few things are faster to 60, even now. But even better though is the way the Lotus treats corners. With no power assistance or driver aids, the Elise is incredibly agile, with a huge amount of grip and a chassis that feels almost magnetically attached to the tarmac. The cornering is almost totally bereft of understeer or oversteer, the Elise simply goes wherever you point it, however fierce the bend and at a speed far in advance of many of its rivals. It's a total revelation to drive. Who says that being a lightweight is a bad thing?

Interior

The allaluminium interiors are noisy on the move, which is something that most Elise owners just learn to live with. But squeaking or sticking pedals can, and should be, resolved.



be, resolved.

Don't ignore them. Spray the joints with WD40 or equivalent, otherwise the pedal bush can seize, leading to a lot more expense and time than if you'd just got the lubricating aerosol out.

On the electrical side, window winders are very prone to failure or going out of alignment, and expensive to put right if done by a specialist, as the task is quite involved. Be wary of cars where the windows seem reluctant. In rare cases, the illumination of the Stack instrument panel can fail, and will be priceve to rectify.

On earlier cars, the hoods can leak through the seals at the front - something more likely if the frame has been used as a support for people getting in and out. Look for signs of water ingress here and seal fit he seals have been torn. Up to VIM \$332, the side rails were prone to wear as well, so look to seel if this area is a tight fit. Boot and bonner releases can be subborn if they haven't been greased, and ultimately, if the situation is allowed to continue without tubrication, they can snaue.

Bodywork

Because the Eile has an aluminium clausis and a fiberglasis body, nut instrumenting youth true to comy about. These succeeded changes is more crucial, though, which should allow up as bud panel fit. So look at the lapsace, paying looks asserted to the doors and the chambells from a and tear. Also lave just may end for poorly matched or rough paintools, were proposed to the properties of the contract of the contract of the and tear. Also lave just may be a so that the properties of the work of the contract of the contract of the contract of the contract and change to contract the contract of the bonded construction, repairs are trick, and shody only to be of the contract of the contract of the quality of the contract of the c

car.

The fronts of these cars are very prone to stonechips. Driving lights in particular are prone to not just getting slightly damaged but broken as well. You should also look for signs of corrosion behind the lamp covers. Door hinges are prone to breaking but, frankly, it should be pretty obvious to anymor if this has happened. If you open the door and it

almost drops off then, trust us, it's not a good thing! Underneath the car is a truy that helps protect the front and rear. This is prone to getting clanged on uneven roads or in urban areas with speed bumps (as the Elise is only 140mm off the ground), so check its intentity and that its bolds are still strong.

Actually, there is one point on an Elise that does rust quite well...
and that's the tailpipes of the sports enhance system, if fitted. It's only
cosmetic, but still looks unsightly. You should also check that the pipes
aren't moving around and touching the bodywork surrounding them;
worn exhaust mountinos are the main cause of the

Suspension

has been missed.

Rocking supermion is likely in older cars, simply as a result of agaathrough the solve distonet stoate of cash (form, servit the beta and can start to go off aeroard the 2,000 mile mark. Part of white makes an Elizar segment in the single by the supermion is serve. This a through their likes a signate in the winty to supermion is serve. This a through their fidelized with and haiving their disclate balance and poins affected. If the field like the can be sufficient to the serve and poins affected. If the solve the can such that can probe their like serve to have an expert tool, at a rad or by a spet thing back to the very level the intended. As a dark of you got their plack to the very level the intended, enthusiascially, and top and bottom ball joints will cause the wheels to halshe bolly—affecting this intentivity or profits at least. The cell links at the back on early, can like you will soldly vais odolgy, so much to that claus readed can to have this part register. If there is a painties

Steering racks are a known weak point, with the gaiters sometimes splitting after just a few thousand miles. That lets water and muck inside, which ultimately leads to a lot of play in the steering. There should be very little play in the steering, so if you notice something

more substantial, all is not well.



What Lotus said at the time

"Not by chance has this lithe and agile sportscar been hailed as the best the world has to offer. The Elise blends light weight with electrifying responses to create a driving experience that's memorable, exhilarating and totally unique.

"Others may talk of reus and machine in perfect harmony, but only the file makes you feel as if you're in partnership with your car; once drive in an Elise and you'll never settle for anything less. And the more you drive it, the better if feels "Our chassis engineers and Ride and Handling team are the best in the business and know precisely what enthusiastic drivers want from a sports car. So in the Elise they've created a pare sportscar, one without compourings that parts the think apert sportscar, one without compourings that parts the think does have a drawback-you'll only ever want to take the long with home."

HISTORY

1994 The Lotus Elise, a replacement for the outgoing Elan, is conceived as a mid-engined fibreglass roadster in the spirit of the firm's small sportscars of the Sixties. The idea for the name – which has to begin with an "E' of course – is inspired by the granddaughter of Bugatif's (which owns Lotus) chairman Romano Artioli. Who happens to be called Elisa.

P995 Lottus officially launches the Elisa, although sales don't actually begin until the middle of the following year. Beneath its systian and control of the properties of the properties of the bonded aluminum extrusion frame, resultings in a car that is bonded aluminum extrusion frame, resultings in a car that is form flower? Services regine in 1796c from, managing to produce 118 bhg, enough to power the car to 126mph and allowing 050mph for be attainable from est in just 5.8 seconds.

1998 The 135 Sport variant, um, sports 135bhp and is also fitted with a close ratio gearbox, sports exhaust and other goodies, plus detail differences like Quicksilver paint to make it stand out from the rest.

1999 Lotus celebrates its 50th birthday by making an Anneverary Elies in gene with gold wheels. It is soon followed by the JPS, all in black with gold wheels, headlamps covers and beak wheels goth and the Type 48; in the tone red and white with headlamp covers and new wheelst chi spack. An even more manned devided from the internal designation number of the model (M111). The extra compth comes from the filment of the VVC K-series enjoin, with variable swither timing. The result is an increase in power to 100bhp, although performance is only improved sightly, Three's also a bir more lauray. with profiles with profiles and the Millennium for control to cash in on the current of the series of the telline of the centure of the series of t

2000 Setter performance is offered by way of the Sport 160 and 190. Lint even mes spectacular is the limited edition model—not that Lotus are necessarily building mass production model—not that Lotus are necessarily building mass production because only 340 under eventually be made, but the original prototype provided 3400bpton power to veight racts from its 170thp engine. They war also seets the debut of the Esign the harding version of the Eine utilizing the same engine as its 170thp engine. They war also seets the debut of the Esign the harding version of the Eine utilizing the same engine as a local revenue of the Eine Utilizing the same engine as a local revenue of the Eine Utilizing the same engine as a local revenue of the Eine Utilizing the same engine as a local revenue of the Eine Utilizing the Significant Signif

Contacts

Clubs

Club Lotus, tel: 01362 694459 or www.clublotus.co.uk Lotus Drivers Club, tel: 01926 859918 or

www.lotusdriversclub.org

Specialists

- Paul Matty Sportscars, Worcs. Tel: 01527 575172 or
 - www.paulmattysportscars.co.uk

 Kelvendon Motors, Lincs. Tel: 01775 725457 or
 - www.kelsport.net

 PNM Engineering, Merseyside. Tel: 0151 630 6101 or
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 ■ London Lotus Centre, Herts. Tel: 01727 866171 or
 - www.hrowen.co.uk
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 - Bell & Colvill, Surrey. 1et: 01483 28645
 - Chris Foulds, Yorks. Tel: 01484 666552
 Morland Jones, Lincs, Tel: 01775 725457
 - Barry Ely Sportscars, East London. Tel: 020 8558 3221 or www.lotuscarsales.com
- Crossroads Garage, Yorks, Tel: 01909 773449

Market Trends

Because the Elies is still in production – albeit it in restyled form —the original series of car can now be picked up quite cheaply compared with how much they cost when next which, let's not froget, wann't that long aga, Nock however, but cheaply it's unlikely you'll ever see Elies being traded for just a few hundred pounds, or or even a cougle of housand. The land facts at after hundred pounds, and the production of the production of the production of the plant their looks, scarchy and overail destability, should ensure they the great setation to output how.

Naturally, the hotter variants of Elise attract a bit more interest and therefore cost more to buy secondhand. The difference is quite pronounced, with, on average, around three grand separating the 1115 from the standard car.

The values listed below are subject to fluctuations, due to the Elise still being just a rather exciting secondhand car, not a true bonafide classic yet.

Verdict

Whatever your views on the classic credentials of the Elise, the fact is that this seemingly miler car is just incredibly greaf on It's just condition great from It's only to drive, and the more windling and undulating the road, the more entertainment you'll got out of one. Models like the ITI's are the most sought after, but whatever type you go for, the enjoyment will be there eight from the moments you'll rea by legition and push the fast peads. Iewn in a standard Elles, you'll be reliabling the driving septiments out much that you won't even more you'll emissing a liste bit of power. So save yourself a few thousands and just go for the basic model. You won't eyest if a few thousands and just go for the basic model. You won't eyest if a few thousands and just go for the basic model. You won't eyest if a You you put near of writing.

Insurance quote

For a £8500 1997 standard Lotus Elise, no modifications, based in Peterborough

- Fully comp, £100 excess, £673.00 (or £583.00 with cat 2 immobiliser fitted) for a 29-year old, two years' NCB, clean licence, 10,000 miles, only car, kept on driveway, club member
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 - Quotes from Firebond (0870 111 0464 or www.firebond.co.uk)



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A little TLC will go an awful long way with the Lotus twin-cam engine. They need to be properly looked after and if you don't you'll regret it, sooner rather than later. Regular coolant changes are essential for a long and trouble-free life. Neglect this basic requirement and you'll end up with corrosion forming inside the alloy head. Ask the vendor when was the last time he changed or adjusted the timing chains, as this will give clues to how conscientious or otherwise they have been about their cars upkeep. Loud screaming from the engine is a sign the belt is too tight and a rattling

when you come off the throttle means it's too slack. Water pumps can cause problems too and you can check to see if one has been damaged by an over-tightened fan belt by trying to rock it back and forth. If the pump moves it's time to replace it and that means the cylinder head has to come off

Twin-cam engines are notorious oil burners, so expect to see some blue smoke from the exhaust, but not too much. Plumes in the back window when you back off and then onto the throttle again are a very bad sign.

As can be an overly fast idle. Once they're warmed up even highly tuned engines should tick-over happily enough at low rpm, but if it is running fast the vendor might be trying to hide low oil pressure by keeping the red warning light from flickering. Oil and filter changes should be carried out every 3000 miles or so and oil leaks

shouldn't be an issue if the unit has been rebuilt. That said many Lotus books talk of these engines' propensity to weep oil, so that's a bit of a

Parts prices

Specificat	ion			
Car	S1	S3 Coupé SE	Plus 2 S3	Sprint
Year	1962 - 1964	1966 - 1968	1966 - 1968	1971 - 1973
Engine	All models: 1558	Bcc 4-cyl DOHC		
BHP/RPM	105@5500	115@6000	118@6000	126@6500
Top Speed	107mph	123mph	118mph	118mph
Gearbox	All models: 4-sp	eed manual except last S	print models which are	e 5-speed manual
Consumption	28mpg	26mpg	27mpg	26mpg
dampers and a		nt: Independent, by coil Independent, by coil sp		

iudgement call...

80 CCW BUYER'S GUIDE

All parts from Christopher Nei 01606 41481 and include VAT	l, Cheshire,
Bumper (front/rear)	£81.08
Windscreen rubber	£49.22
Headlamp pod	£65.69
Brake master cylinder	£67.86
Clutch plate (4-speed)	£86.36
Timing chain	
Starter motor (exchange)	£29.26
Water pump kit	£37.01
Stainless steel silencer	£98.41
Window lift motor	
Dash	£175.08
Carpet set	£116.33
Headlining	£46.38

Lots of Trouble, Usually Serious? Forget the dodgy play on words and boring old jokes, it doesn't have to be that way. JAMES PEENE takes a look at the Elan and tells you all you need to know to find a good one and awoid the duds.

Gearboxes

Four-speed boxes are Ford items so they're generally pretty strong, long-lived and not particularly expensive either. Sorry to say - in more ways than one – that the five-speed

Sorry to say - an more ways than one - that the five-speed gearbox found in later cars was purloined from the Austin Maxi of all things and they can be pretty poor. They have a woefully vague feel and wear is common as driver's flight to find the right ratio and lose patience with the BL shift in their parts-bin sports can.

The good news however, is that all the differentials are Ford items again. But, if you think you detect a grumbling from the back it could be the bearing where the driveshaft emerges from the diff housing. This is an expensive fix but if you're lucky it might just be a tired wheel bearing after all.

Interior

indeed

Lotus and electrics do not a happy partnership make. So electric windows are likely to fail, as is the rest of it unfortunately. Thankfully, most faults can be traced back to poor earths, but sorting them will invariably soak up time, if not money in sorting.

them.

Water will seep in through perished seals and this will rot the carpet and upholstery. It can also wreak havoc on headlinings, which are apt to tear easily whether they're damp or not, and the

wood veneer.

Dashboards will crack or go milky over time and a tatty one can

really make an otherwise okay-ish car look very tired

Radios were installed in the tiny space next to the heater box and aftermarket ones are too big, so can protrude and look unsightly if you're a bit of a perfectionist.

The seat frames can break and replacements are like hen's teeth, so you'll have to strip them right down if they need a

Suspension and brakes



Bodywork

They're made from glassfibre, which is brilliant because it won't rust. Unfortunately, the GRP cracks and is susceptible to damage from flying stones and light knocks and bangs, so you're opening an entirely different can of worms here.

You need to be particularly vigilant for stress cracks. They're apt to occur in points of stress funnily enough, so look for starring around areas like door handles, looks and hinges. Problems of this nature aren't the end of the world, as they won't affect the car's structural integrity, but you'll need to factor any repairs into your huidsof first.

Micro-blisters are frustratingly commonplace on project vehicles and will need rubbing back to make good, but it's always worth looking very closely at any obviously freshly painted or shiny areas. They're likely to be covering some form of recent repair work, so probe the vendror mercilessly about them until he fesses up.

One thing worth bearing in mind however, is that not all amateur looking bodywork is a DIY bodge. It could well be factory 'workmanship' as some of the fit and finish on these cars can leave a bit to be desired. For example, the inside of the nose cone can look a little shouldy.

Whilst you're looking under the front it's crucial you check for cracks in the suspension turrets. Find damage here and it's a sure sign of a tired and weakened chassis. As it sags it begins to lean in on itself and those little cracks can lead to much bioger bills.

on itself and those little cracks can lead to much bigger bills.

Open the doors and see if they drop at all. Droopy doors are a sign of worn hinges, and that means more expense.

Always check the condition of the rubber seals. Windscreen

rubbers are apt to crack over time, and although this won't matter to the bodywork it will have major repercussions on the interior and chassis. Rainwater that gets inside has to go somewhere and if it can't find a ready-made escape route it will engineer one of its own.

British-built pop-up headlights are notoriously rubbish and on

British-Dulit pop-up neadingins are notonously rubbish and on the Elan are apt to pop-up, but not pop-down again, so check everything works properly and there are no signs of force having been applied to them.

right down if they need a welded repair.

You'll find a mix of Triumph Herald parts keeping an Elan on the straight and narrow path, so it won't cost the earth to replace worn components. Everything should look well cared for and lubricated where appropriate. For example, there's a thread in the sterning that needs to be coated with legar oil, not grease, from time to time – again, it's a sign of a caring and knowledgeable owner.

Stub axles can wear and there are four Rotoflex rubber doughnuts between the rear wheels and differential, which become soft over the years, especially if exposed to oil. They're not cheap to buy and replacing them means you also need expensive, special Lotus-thread bolts too.

Oh, and if you're going to do a 'bounce test' on the shocks then for Pete's sake do it with care – remember, the bodies are made from fibreolass!

Chassis

Unfortunately, for a car that draws all its strength from its chassis it has a horrible propensity to rust. As such, go over them with a fine toothed comb. Most, however, will now be shod with a replacement item and new ones come galvanised for piece of mind.

Find one wearing its original or steel chassis though and you'll need to check around the front suspension mountings and especially where the chassis widens at the front. Muck and filth builds up in the front suspension turrets and corrodes the metal where they attach to the front crossmember. Welded in patches are a common fix, but if the towers have shifted at all, then the geometry will be altered and your Lotus will never handle like it should. Remember, these are sports cars, so if you find a rippled chassis, you know someone has had a prang at some point, so it might be worth walking away and finding another one instead. One last thing to bear in mind is the condition of the crossmember in relation to the pop-up - or not - headlights. It works as a vacuum tank, so if during the course of your investigations you find they've been bypassed with a separate pipe, it might not be as airtight, and therefore rust-free as it should be

Driving

Mention the name Lotus to any car enthusiast and they'll immediately talk about the firm's legendary chassis nous - before mumbling something about financial turmoil and reliability issues, but that's not what we're concerned with here. No, the Elan is widely regarded as one of the best handling cars ever produced. Find a good one and you'll discover a machine that for once matches the myth, because underneath that attractive fibreglass body you'll also find a hugely competent steel backbone chassis, wearing independent suspension all round that was honed to perfection from years of motor racing. The result? A lively but forgiving and chuckable machine that lives for corners and soaks up bumps, kinks and undulations in the road with great anlowb. Keen amateur drivers will find they exceed their limits before reaching the Elan's and it won't bite the hand that feeds it in the process. Try it, you'll love it - we promise!



1957 Having produced its first 'proper' noad car in the form of the Elite and made a loss, Lous Rounder Colin Chapman turns to Ron Hickman and instructs him to come up with a more profitable replacement. The result, ihardly surprising given this guide is the Elan. The all-new model features a 1500cc with care only fine developed from the Ford Kent unit, pop-up headflights and body moulded bumpers in the glass reinforced plastic shell.

1962 Lots whips the cover off the Elan at the London Motor Show. The press and public adore it, but what they don't know is that the pop-up headlights have refused to pop up so, for the time being are prop-up headlights. A portent of things to come perhaps?

1964 Engine sizes have already been upped to 1558cc before the Elan S2 supplants the original model. It features a better dashboard and hood and boasts better brakes too. If you had the money you could have been one of the 43 customers who ordered 26R facing versions.

1965 A coupé model joins the convertible. Strange that it took so long though - it looks like a convertible with hard top permanently grafted into place. It's also the year Emma Peel aka Diana Rioa olins The Avenoers at the wheel of a 52 Elan.

1966 The World Cup year sees the arrival of the SE and S3 models. SE stands for Special Equipment and means you get central locking, a brake servo and 115 rather than 105bhp to play with. S3 means it's a series three model of course.

1967 Longer wheelbase Elan Plus 2 is introduced. There's room in the back for a couple of small ones or contortionists now...

1968 Say hello to the series four (S4) model. You can spot the difference by its rocker switch equipped dashboard, flared wheel arches and bonnet bulge over the Stromberg carburettors in the engine bay. A 'luxury' model called the Plus 25 goes on sale. It has better levels of trim and sports an alternator.

1971 The ultimate incarnation of the original Elan is born – the big-valve Sprint. It comes with two-tone paint, strengthened driveshafts and differential and the option of a five-speed gearbox is there if you want it.

1973 After an all too brief appearance, the Sprint is axed from the line up and is followed shortly after by the S4 coupé.

1975 Production of the Elan Plus 2 comes to an end.

1990 The Elan's spiritual successor – not to mention lookilikey – the Mazda MX5 – goes on sale and breathes life back into the genre. Spinning Wheel Grant Storre

Contacts

Clubs

- Lotus Drivers Club (GB) www.lotusdriversclub.org
 - Club Lotus, www.club-lotus.co.uk
- Specialists
- Chris Foulds, tel: 01484 666552 or www.chrisfoulds.co.uk
 Boss Motors Body Panels Specialist, tel: 01953 887471
- Boss Motors Body Panels Specialist, tel: 01953 88747 ■ Morland Jones, tel: 020 8741 2303 or
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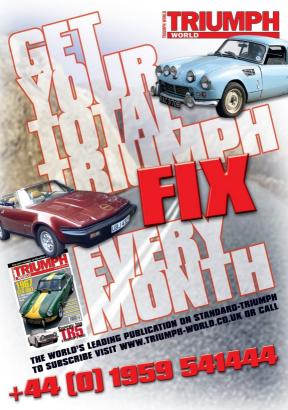
Verdic

We can think of precious few reasons why you shouldn't buy one. First domething that's had a bit of money speet on it and riding on a galvanised chassis and you won't go far wrong. The Elan is a much loved and well-regarded machine that's a pretty rare sight on the roads today. There one and you'll not only have the admiration and respect of your peers, you'll also have the smug smile of your face of someone driving one of the nimblest handling sports can this country has ever produced.

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- 1971, Lotus Elan S2 valued at £10,000, based in Peterborough.
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Mazda MX-5



Engines



Both the 1.6 and the 1.8 are variations on the same theme, although the 1.8 did have a few extra refinements. An oil change every 6000 miles, otherwise the tappets - which are hydraulic - can start to protest. Listen out for this on the car you're

viewing, otherwise you could be facing having them replaced...although an engine flush sometimes works. However, don't be put off by an initial clatter when the engine is started. It's usual, and should go away after a couple of seconds. Check the service history to see when the cambelt was last changed. It should be every 54,000

As you'd expect from guite modern Japanese engines, overall these units are pretty reliable powerhouses, so there shouldn't be too much else to worry about. at least up until the 150,000-mile or so mark. CCW's former editor, Russ Smith, has a 1990 car that has just reached the 160,000-mile mark and shows no signs of going

oil though." Don't expect any oil leaks, unless they're from the cam cover, and a new gasket should stop those. Misfires are generally little more than dodgy plug leads...which happens quite a lot with MX-5s. However, the exhaust manifolds can crack, something you'll spot if you check under the bonnet with the engine running. Turbocharged ones are especially expensive to replace,

If there's a rattle from underneath, it's likely to be either a loose heat shield - easy to put right - or a catalytic converter broadcasting its imminent death. The latter is more of an issue, just because you're looking at about £150 for a new one, going by Moss Europe prices, Remember that the 1.6i post-1994 models only have 88bhp, rather than the 114bhp of their pre-1994 predecessors. Which might cause

you to think twice about one of these.

Specificatio	n		
Car	MX-5 1.6	MX-5 1.8i	MX-5 1.6i
Year	1989-1994	1994-1998	1995-1998
Engine size	1597cc 4-cyl DOHC	1839cc 4-cyl DOHC	1597cc 4-cyl DOHC
BHP/RPM	114@6500	131@6500	88@6000
Top speed	121mph	123mph	109mph
0-60mph	8.8secs	8.6secs	10.6secs
Gearbox	All models: 5-speed m	nanual	
Consumption	34mpg	31mpg	31mpg
Suspension: All	models: Front: Indeper	ndent by double wishbo	nes and coil springs, gas-
filled shock absorbers	rbers. Rear: Independer	nt by double wishbones	and coil springs, gas-filled

Parts prices

All parts from Moss Europe	
Front brake pads, 1.8	£5
Front brake disc, 1.8	
Clutch slave cylinder	
Clutch kit, 1.8	
Water pump	£6
Starter motor	£7
CV joint	£9
Wheel bearing kit	£19
Budget glassfibre hardtop	£49

84 CCW BUYER'S GUIDE

Just as everyone was getting used to there being no affordable small two-seater sportscars around at the beginning of the Nineties, Mazda went and kick-started the trend again with the MX-5. And they're still just as much fun today, says **RICHARD GUNN**, as he looks at buving one. Expert advice comes from Gary Thompson of MX-5 specialist Paul Sheard Auto Parts

Gearbox

Nothing much – usually – goes wrong with the gearboxes, although the earlier ones (pre-K-registration) may often field a little stiff going from first to second, until the oil has had a chance to warm up. Dorit worny about it... Lihat's perfectly normal, kind to the single cone synchrometh. We get intundated with calls during the cold weather with owners suddenly complaining their gearbox has gone stiff laughd sout? Hompson: Test it doesn't to destine the cold weather with owners suddenly complaining their gearbox has gone stiff laughd sout? Hompson: Test it doesn't

cause problems...and fully synthetic gearbox oil often helps." However, if things stay like this, even after a long drive, or if there's a lot of noise, then suspect a 'box that is getting past its best, probably as a result of mistreatment.

Interior

There aren't too many issues inside," asserts Gary Thompson. "Just the usual werand hear on high mileage cars," Marada stuck to the 'simple is best' philosophy with whole of the McX., and that's very apparent inside where everything is very basic, Good materials means the cabins are hard-wearing enough, although, as with any convertible, nature or an example problems if the car has got cought in the name in Carpets the most liably to bloom! Carpets the most liable to bloom the carpet carpets are carpet to be carpeted to be sufficient to the sun So you can't carpet of carpets the most liable to be carpeted to be sufficient to the sun So you can't carpet the most liable to be sufficient to the sun So you can't carpet the most liable to be sun So you can't carpet the most liable to be sufficient to the sun So you can't carpet the most liable to be sufficient to be sun So you can't carpet the most liable to be sufficient to be sufficient to the sun So you can't carpet the most liable to be supplied to the sun So you can't carpet the most liable to the sun So you can't carpet the most liable to be sufficient to the sun So you can't carpet the sun S

win...

Don't forget to check the hood, as splits can strike and stitching can come loose. Quite a common fault is if the hood has been folded down without the rear window being unzipped, which will cause the abatic to crease or even tear.

which will cause the plant, to clease or event lean. Water from the roof collects in a gutter, before draining into pots on each side of the car. However, if these get blocked, it can result in the liquid getting into the car instead. However, poking through a drain hole won't be something you'll have to go to a specialist to have done...



Suspension

Rear springs can suffer from cracks, but that's about it undermeath. With suspension bushes that should last for 100,000 miles or so, there really isn't that much else to be concerned about. However, the earliest Mik1 so suffer premature suspension wear, according to Gasty Thompson, "They get cracked and worn. At which point a lot of people just upgrade to Polyurethane ones."

So, just check the alloy wheels before you go for possible corrosion. It's quite likely on a 1992 SE, as the 10-spoke alloys on these limited edition cars didn't have the best lacquer coating.

Bodywork

Vigo, you're right – pretty much no rust. Although these can a writcompletely consoling mod as the delete camples have started to throw up some delicitate areas. The silfs have proved themselves a liter ulvalenzale, expectally towards the reast and add on such a kickplates and other bits of trim can promote rust behind them. "The ley with the bodyworks it the difference between UK and imported cars," says Gary Thompson, "Imported ones from Japan haven't been subject to to need mode during winter. UK cars a result, the property of the control of the control of the control of the rust will be the control of the foot will offer any of the control of the control of the foot will offer any of the control of the control of the foot will offer any of the control of

The bonnet and boot are aluminium, so can suffer from a different sort of cornsion where any steel nexts with the alloy. Usually though, the most likely reason for nust on an NK-5 will be bubly-repaired accident changes. ("We've seen cars with noty front wings where non-genuine Mascia items have been fitted after an accident," says gar, Yeen if you can the see my hart of this, you should walk around the car bothing for poor parel fir - apertures and oversorary decoration.

Because they're made of aluminium, the pop-up headlamps can go out of shape if they've been lent on, and you should try to give the front and rear plastic panels a shake. Small knocks can break their mounting points.

It's quite common to see older MX-5s with windscreen wiper spoilers having faded to grey. But, how much time and money does it take to replace a wiper arm? Not much...





Electrics

Surprise, surprise...nothing much goes wrong with the electrics either. If things aren't playing up, it's usually more down to amateur bodging than anything else...so look for signs of wiring having been badly interrupted using accessory connectors.

Electric windows however are usually on the slow side. "If they're working slowly, quite often the cables will snap if left," says Gary Thompson. "This will burn the motor out. We suggest that, if this is happening, both the cable and motor are changed at the same time."

Look for temperamental central locking, which happens on the post-1994 models. Mazda came up with an official fix for this, which should have been carried out. As a matter of course, you should try the pop-up headlamps...but you're not seriously expecting them to malfunction, are you?

One thing to look at which is often overlooked is the battery in

the boot. It should be vented, using a rubber tube nunning from the top through the floor. If that intri there, chemicals can build up inside the very small load area, causing possible corrosion as well as a not very nice atmosphere to anything stores in the boot for an extended period. "Sometimes, people don't re-clamp the batteries either," so and the sound of the control of t



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Engines

A FULL service history from either a dealer or a reputable specialist is a must...these are quite complicated mid-engined sportscars, and need to be looked after properly.

The K-series engine has something of a major folible in its ability to blow hed gakest, thanks in part to air locks - the coolant has a long way to travel from the radiator at the front to the engine (almost) at the back. If the most important thing you have to watch out for with these engines, and if the oil on the dipstick looks rather milly, here water in getting into the oil and it's a blown gaket that is likely be not at fault. There is now a product worth the statement of the statement of

Mislfing is another possible symptom, as is tricky starting or an uneven tide, and also look for sign of a water leak from the head face around the alternator or staining down the side of the block. Keep an eye, too, on the temperature gauge, which should sit just below halfway. There are two fans on the car - one which cuts in to cool the engine, and another which comes on to cool the components around it. Leave the car running for a while to check that these do come on.

One possible fault of a car running too warm could be the

cooling pipes that run from the radiator at the front underneath to the mid-mounted engine. They can corrode or suffer from leaks, so if you get a chance to scramble underneath, do so and investigate how sound they are. Exhausts can get damaged because they're so low, but bearing in

mind how short they are, you'll be unlucky if this is the case. Listen for blowing.

Look for documentary evidence that the cambelts have been

changed - they need to be done every 60,000 miles or five years, whichever is sooner.

Pre-1999 cam bolts - which hold the cam wheel to the camshaftcan loosen, which then causes a pretty catastrophic engine failure. This was the subject of a recall, which should be noted in the service book, but it is recommended by many that, if you buy and MGF, the bolt is tightened up again, if it's not immediately apparent that this has been done.

Some cars might have starting problems, but this is often easily resolved by fitting new plugs and leads.



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Specificatio	n				
Car MGF	Mk 1 1.8 MpiMGF	Mk 1 1.8 VVC			
Year	1995-99	1995-99			
Engine size	1796cc 4-cyl DOHC	1796cc 4-cyl DOHO			
BHP/RPM	118@5500rpm	143@7000rpm			
Top speed	123mph	131mph			
0-60mph	8.7secs	7.6secs			
Gearbox	5-speed manual	5-speed manual			
Consumption	37mpg	35mpg			
Suspension	All independent Hydragas, front and rear				

Brakes

THERE isn't much to worry about with brakes, but you can check the condition of the brake discs through the alloy wheel. When on your test drive, just check to see that the car pulls up straight and quickly.

Parts prices

Turis prices	
Prices from Rimmer Bros and include VAT	
Brake kit - includes front discs and brake pads	£100.00
Xpower Thruflow performance exhaust	£275.00
Service kit	£50.00
Radiator (original new)	£137.02
Head gasket (aftermarket)	£18.08
(original)	£25.98
WC head gasket kit (original)	£75.63
Front upper ball joint (original)	£14.60
Oil pump (original)	£78.18
Water pump (aftermarket)	£30.00
(original)	£43.58
Replacement hood (original black)	£315.15
Front wing (original)	
Count business in polymor (asialast)	(107.60

The idea of a small two-seater MG roadster was revived by the MGF in 1995, much to the joy of MG enthusiasts everywhere. **RICHARD GUNN** delves into how to buy the best of the Mk 1 models

Gearbox

EXPECT the gearbox to be a little notchy until it is fully warm... but other than that, the transmission should be pretty reliable as the PG1 unit is based on a Hondis box. However, the control cables can stretch or break, which causes selection problems which unfortunately means taking out the centre console to replace them.

If you hear a whining from the gearbox in fourth of firth, it's a sign of an impending gearbox failure, so walk away.



Interior

CHECK for signs of water- either present or past - inside the claim. If you notice some, then it means that the hood is probably leaking, and this should be investigated. It is more likely no 195-97 cars, where the hoods has valid be same and the hood doesn't fully cover the front edges of the frame at the windcreen. This was improved from 1979 creamach, However, water impress could also be down to seal leaks, as detailed in the body youth section. Look out too for bear hold frames they ever easy to put up as one you problem of the control of the leaking to the control of the control of the control of 17 years of any policy of the control of 17 years of the control of the control of 18 years o

If you can smell petrol inside the car, then it's best to go and look elsewhere, as just diagnosing what the exact problem is can be tough enough. Putting it right on a mid-engined sportscar is something else entirely!

Electrics can play up, so check that the electric windows work okay going up and down smoothly and quickly - and that central locking activates and de-activates as it should.



Bodywork

RUST shouldn't be an issue unless the car has been in an accident and not been properly repaired. Look for signs of bad panel fit as well, something else that suggests the car has taken an unscheduled scenic route in the past.

Stone chips will probably be the imperfections you come across most of all, although the plastir form means these won't ultimately lead to corrosion. Where trouble might occur is in the subframes and seams. A lack of proper sealing can allow water to drain from the windscreen, under the bonnet and into the footwell; and further leaks can come from the plastic door mirror surround. Also look in the (rear) boot too, as lid and lamp seaks can let water into here.

Doors have been known to drop on earlier cars, which will require hinge adjustment. If it goes unadjusted, the door can ultimately end up rubbing the top of the sill, which you really don't want.

Phew! Isn't it nice to write about a Longbridge-built classic that doesn't rust too much...



Suspension

HTDBAGAS supersion—gas and fluid—usually gives less proprietem than conventional supersions (puts a far better ride into the bargain. Problems are usually conflined to liabils in the usually conflient are usually conflient to the second of the conflict o

Some cars have power steering fitted. which is actually electrically operated. These have a 70 amp fuse fitted on the right inner wing - so if it is there, check that it is working as it should. There should be a fault light on the dashboard if there isn't. But many owners just disconnect the dectric PAS to improve the feel of the car... It really provides its maximum assistance at parking speeds only.







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Buyer's Datafile: MG RV8, 1993-1995

Definitely one of the most evergreen classics ever made, the MGB lived a long and successful life between 1962 and 1980. But when the doors closed on Abingdon we hadn't seen the last of this quintessentially British sports car. KEITH ADAMS takes you through the piffalls in buying an MG RVR – the VB powered version of the 'R, built during the Nineties, to help relaunch the MG marque.

NE of the most desperately sad events in British motoring history was the closure of the MIG factory at Abingdon in June 1980. Not only did it see the finale of the MIGB and Midget, but also the end of a manufacturing plant that had suffered little of the industrial strife that affected the BL Empire during

At the time, the MG name was considered less important than Triumph, and that meant the TR7 was to become the new BL corporate sports car for world markets – yet, the sad irony was that Triumph sportscars would last only one more year themselves, dropping out when car production The MC marque remained allve during the Eightles thanks to the Metru, Massers and Montego, but to many enthusiastic flans, these were not realf MGs. To be fair to Austin-Rover, the company MC now belonged to, the designers and planners there all wained to introduce a new open-topped roadbate; but management (and finances) wouldn't allow it.

at the Solihull factory stopped.

The introduction of the seminal Mazda MX-5 in 1989 convinced Rover management that the time was right to re-launch MG with a roadster – and finally backed the designers' plans. Sadly, the new mid-ized roadster (what would become the MGF) was still five or six years away from production, and the company wanted a new sports car far sooner than that in order to cash in on the MX-5

An insperious plan was hatched involving hetritage MGB shells, the Land flower We engine, and a purpose-built with the Consely factory in order to produce the new generation of MG MRV. At the and of 1992, the RfW was shown to the public, and demand for the new era classic MR quickly stepped up — In short, a modern causic had been born. And more importantly, the new cur saw MG make a velcome term to new cur act showource with a real sportscar.

Is it a classic?

YES. It may well be a mid-Nineties car, but the RVB most definitely has its roots in the RVB most definitely has its roots in the States. The styling is classically MGB, tibled up with a modern incarnation of the unbbre bumpers, and the engine a fuel-injected and engine-managed version of the venerable Rover VB engine — and for many enthusiast, it's the ideal B, as it marries the roadster body with that impressive power unit.

The classic car guides have been listing the KNB for some time now, and few people would debate the workiness of its inclusion. Having driven many examples, we can say – hand on heart – that there are few open topped roadstess that can offer a more classic experience. The RNB Sint so much about when it was built, but what it

does for its owner... What's out there?

Essentially, the RV8 was a stand-alone model, and aside from a few equipment oppions, and a choice of colours, that was it. That was then, and this is now – and because the vast majority of RV8 were actually exported to Japan, there are a couple of interesting options you'll only see on the cas sent out there and later

What to look for?

The best way of appraising an MG RV8 is to think of it as a Sixties roadster with Nineties resistance to rust, Many of the major electrical systems come from other models in the Rover Group, and it's the same with the foctures and fittings. We're being controversial here, but a well cared for example of the RV8 should be an extremely reliable and dependable car that you could use on a daily basis, but there are still a numbers of factors to take into consideration before taking the plunge. 1) With so many RV8s being exported to Japan, it's worth taking the time to fully investigate the history of your car - if the seller is openly selling it as an ex-Japan car. then try and ensure it was serviced and maintained properly. Because 1600 of the 2000 cars went out there it's a very good. bet that the car you're looking it comes from far Fast RVRs sold in Japan came with a standard distress flare - if you're really lucky it may well still work 2) Air conditioning: Yes, it seems bizarre equipping a roadster with air con, but the Jananese market cars were fitted with this

condition of the belts is good, and the compressor birt making any odd noises. 31 Body. Zins, plating of the body structure should have protected RVBs from noticeable near, but the windscreen sumand can suffer surface comotion, sepocially at the base. Make sure that the boot support smuss are still doing their job and insist on seeing the hond erected to check for teas as replacements currently

4) Bumpers: The fibreglass bumpers need to be checked for cracks and poor repairs as replacements are expensive and difficult to source.

5) Engine: With these Rover VBs, low

mileage int always a guarantee of untrobled motoring - water pumps are a known weak link. Ensure that the cat has secretive regular fitted and oil and thas secretive regular fitted and oil and filter changes, and listen out for tapping notices on ridle as cambalt weer in not unknown. Overall, these engines are sturry. Overheading can have disastrous effects on an aluminium power units on make the electric cooling fains are working as we the electric cooling fains are working as

6) Gearbouc Problems are seldom, so any undoward moise from the 'box are a quarantee of impending trouble. 7) Suspension: Damper condition is ultail to these cars, so ensure they are tip top to avoid a 'lively' drive. Front suspension say causes syres to foul the inner wheelarches but is easily corrected by fitting resercial springs. Rehort fip power-steering-

previously not available on air-conditioned cars - can now be obtained. 8) Braking: Low mileage cars often suffer inoperative rear brakes due to seized wheel cylinders, so check closely

9) Interior and electrics if the remote locking control battery fails the car will be immobilised, so carry a spare battery. Neglected leather that feels hard but can be revived but spills or failed sticking demand the attention of a quality immobility. Wood veners is extremely high quality, and will be free of cracks and discolouration if the car has been garaged and not exposed

10) Make sure that the leather-bound tool-kit is present and that the bootmounted CD stacker operates

The parts situation

It's fair to say that the parts situation on these cas is second to none, apart from certain unique-b-TMP parts, such as bumpers and some interior components. The body parels are readily available from British Motor Heintage, the engine parts are off the shelf from Rimmer Brox, and servicing parts will be available from all good motor factors.

Typical prices (supplied by Brown and Gammons) Front brake discs, Brake pad set (front). F3

 Brake pad set (front),
 £50.98

 Front damper assembly,
 £123.38 (pair)

 Brake servo,
 £157.45 (pair)

 Brake servo,
 £287.88

 Radiator,
 £235.00

Specialists

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 Brown and Gammons,
 www.bg.mgcars.org.uk or 01462 490049
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 - Jentree, 01323 767354 ■ Rimmer Bros, 01522 568000 www.rimmerbros.co.uk ■ Lower Barn, 01473 833299
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MG Car Club, www.mgcc.co.uk or 01235 555552

 MG Owners Club, www.mgcars.org.uk or 01954 231125

WEBSITE ■ MGRV8.com, www.mgrv8.com

Clubs

Jaguar Drivers Club: 01582 419332, www.jaguardriver.co.uk Jaguar Enthusiasts Club: 08708 452482, www.jec.org.uk

What should I pay?

Prices of the MG RV8 vary greatly. It's perfectly possible to

pick up an imported model from a dealer from around £700 if you're not after a condition one car – and this should be a great introduction into open topped Mic ownership § you're not too keen on getting intimate with the Waxoyi gun. As we've said, even buying an average condition car with high miles should present few of the traditional pitfalls, although there may be other issues to crossister.

It is possible to spend over £13,000 on a concours condition RVB with a cast iron history and you'll be guaranteeing yourself an enjoyable ownership experience. As this was seen very much as a modern classic even when new, many owners cherished their RVBB, meaning that there's a plentful supply of low-milesage cars out there, so don't get exceed the control of the rVBB of the

scarce, but not that rare that buyers have to fight to buy the first one they see – so you can afford to pick and choose.

Should I buy one?

We suspect that if you're thinking of buying one, you've already made your mind up. The MG RVB blends Nineties electronics and with Staties style and engineering to produce an endearing and ultimately loveable roadster.

Unmitted yielester loodsteff for those who can truge fie see the idea of an original MIGS GT Vill or MIGC, but who are turned on high the idea of a renigh and MIGS GT Vill or MIGC, but who are turned on high the idea of a renigh fast MIGE, this is an option that valence to good to miss. Expectally as we reclose to good to miss. Expectally as five and the proposition of the interest of the intere

SPECIFICATION

MG RV8	
ENGINE:	3946CC V
POWER:	190BHP@4750RPN
TORQUE:	234LB/FT@3200RPN
TOP SPEED:	136MPF
0-60MPH:	6.95EC
FUEL CONSU	JMPTION: 22MPC
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option. As is the case with all cars thus equipped, make sure it's blowing cold, the 92 CCW BUYER'S GUIDE

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MGB

Engines

The state of the engine bay is another prime indication of whether the car has been looked after, according to Mal Williams. If the engine bay is good, and the rest of the car also looks nice, then it's been owned by somebody who cares, and has probably taken a lot of care elsewhere. and that's a oustitive sion."

"There are no real horrors with MGB engines, although go for a car with less than 100,000 miles on the clock if you can. Most people use these cars on high days and holidays. If an engine has done 40,000 to 50,000, then it's got an awful lot of life left in it. Modern oils are better than they ever used to be!"

Expect oil leaks...it's an old British car after all. However, don't expect oil slicks. If there's a lot of the black stuff escaping from below, it's not a good sign. In general though, the B-series unit is a pretty good one, and, because it's in an MS. everything is available if needed.

Oil pressure of between 60-70ps in a warm engine at a reasonable speed points to a unit that is probably sound enough. At idle, look for 45psi. The lowest it should be is Z5psi. "An oil cooler is always a bonus, especially if it's fitted with a thermostat." believes Mal.

You should do the usual checks for blue smaller from the exhaust (if it's on the overnun, it points to worn valve guides, while you can heck for worn bearings by accelerating hard from 30mph in top gear and seeing if there's smoke) and listen for excessive noise too. Chattering from the top is likely to be just worn valve clearances not really a problem -but it could also be a worn rocker shaft and arms, which is more complex to so troot.

If the engine hunts at lide or misfires, then it's likely the distributor is getting worn out, although it could also be the SU carbs going out of tune thanks to worn spindles allowing excess air in.

Keep an eye out for overheating_although it's usually little more than a radiator needing replacement or, according to Mal, "People often fit the wrong thermostat, thus meaning the cars run on the hot side, especially during summer. A 74 degree thermo is best." An electric fan is also a wise filtment for modern traffic.



Suspension and steering

On cars with wire wheels, feel for loose or broken spokes – something that can be a major safety hazard – and also look at the inner edge of the rear tyres and the neighbouring wheelarch, where chaffing can occur if the tyre has come into contact with the body of the car, due to tried springs. Sand back and look at the car from alar, and if the top of the wheels are disappearing into the wheelarch, then expect to have to replace the sortinos.

Lever arm dampers can weep fluid – have a look at them – although don't be too surprised to find telescopic dampers fitted instead. It's a popular conversion, and does much to improve the car.

Were in the front kingpins is quate likely on many examples and will examine a media of many continuous control of the contro

Suspect handling, for a reason other than that described above, is often down to wear in the steering universal joint, while excessive body roll can be prompted by worn top and bottom bushes. However,

cornoded anti-roll bar mountings can prompt the same behaviour. Listen out for clonks from the drivetrain while driving. If you hear some and want to get a better idea of where they're originating, put the car in gear, get out, and try rocking it back and forth to replicate the noises.

Parts prices

and include VAT	r neritage,
1967-1974 Roadster	
bodyshell, unpainted,	£4400.00
1967-1974 GT bodyshell,	
unpainted	£4750
Front wing	£325.08
Door skin	£58.34

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Water pump	£19.95 to £35.25
Kenlowe fan	£109.64 to £119.96
Oil cooler	£30.95 to £68.50
Complete engine,	
unleaded, exchang	ge from £935.95
Starter motor, iner	
reconditioned	£79.95
Alternator, high or	utput £46.94

Radiator	from £89.9
Brake discs, pair	from £12.2
Brake pads,	
set of four	£8.9
Front suspension kit	from £32.9
Kingpin kit	£58.7
Rear spring	from £38.9
Clutch kit	from £54.9

Specification

Specification							
Car	MGB Roadster Mk1	MGB GT Mk1	MGB Roadster Mk2	MGB Roadster 'rubber bumper'	MGB GT 'rubber bumper'		
Year	1962-1967	1975-1980	1975-1980				
Engine size	All models: 1798cc 4-cyl C	OHV					
BHP/RPM	95bhp@5400rpm	15bhp@5400rpm 98bhp@5400rpm 95bhp@5400rpm 84bhp@5200rpm 84bhp@5500rpm					
Top speed	106mph	105mph	105mph	111mph	104mph		
0-60mph	12.9secs 13.6secs 11.0secs 12.1secs 14.0secs						
Gearbox	All models: 4-speed manual plus overdrive or 3-speed automatic						
Consumption	ntion 22mng 23mng 24mng 26mng 26mng						

All models: Front: Independent by coil springs, anti-roll bar and lever arm dampers. Rear: Live rear axie, leaf springs and lever arm dampers

If ever a classic car has really needed no introduction, it's the MGB. So we won't waste our time here telling you about it. Just jump straight in to **RICHARD GUNN's** buyer's guide on the British sportscar with the biggest following of fem all. Expert opinion comes from marque specialist Mall Williams of Lower Barn Classics

Underneath

Undermeath the centre of the car is the 'castle all,' the small channel section that runs by the sill. These cornode, as do the underfloor outriggers and the front of the rear spring hangers (but, then again, they do on most classics.) A way of checking these, if you don't fancy crawling underneath, is to look for budging sound-deadening material under the carpets in the rear footneal.

Interior

Thee soft much that ion available for the inside of an MGE. but, just bare in most faith the more you need to part gift, the more could be just bare in most faith the more you need to part gift, the most could ye will be, especially on the easier can with their leather interiors. On connectible, don't forget to cheek the hoof. Faires can become self through lack of use the seams can spill; and reserve the experiment of the seams can be come self through lack of use the seams can spill; and the third interior is the seams can be come self through lack of use the seams can spill; and the rear window coresed, which is not consistent to the rear window coresed, which is not something a truly caring or sympathetic owner would have done. Ears can often be found by the side statemers.

Things to specifically check include the driver's seat farame and the rubber diaphragm supporting the seat cushion. Leather is the most hard-wearing of the materials, followed by vinyl and then the later cloth (brushed mylon) covers. Sagging of this is common. "Cloth seats in a convertible can also hold water," says Mall Williams.

Brakes

There's little of concern on the brakes, with all MGBs fitted with discs up front. "When you're driving it, does it brake straight and easily?" says Mal Williams.

From 1974, servos were fitted, and any servo-assisted MGB is worth having...especially if the servo has been retrofitted to an earlier example.

Gearbox

Manual gearboxes are tough enough to notch up big mileages. "Listen to the transmission though," asserts Mal Williams. If there's a chattering from the box which changes depending on the speed of the car and vanishes in top gear, then suspect a worn lawshaft.

If overdrive is fitted, try it out. It should only work on third and fourth gears, and slip in and out easily. If it is engaged and thereis no engine braking when you back off the accelerator, then thereis something ansits. Synchromensh, when it starts to were out, will disappear on second gear first, while the earliest there-synchrog gestroores; and period period

Automatic gearboxes are rare, and not well-liked. And because they lost detract from the whole small sportscar experience. However, assuming the auto transmission does its job well enough, all you really need to look at is the state of the fluid inside. It should be red, not brown, and shouldn't smell burnt. If it does then expect burnt bands and a subsequent rebuild or replacement gearbox.

Bodywork

Before going in close, just take a look at how the car appears from a distance. Does it, in general, look like a good car? Panel fit or lack of ft - says a lot about a prospective purchase. "A really good car will have been looked after well," says Mal Williams." Just so uverall appearance - door shates ct-- will tell you of tot about how well looked after an MGB has been. It's nice to buy a car from a true MG enthusiast."

Now it's time to get up close and personal. The silfs are an obvious pake to start, as they're the most likely place for timowrn to breed. It's likely to break out at the front, behind the base of the front wing, and at the near end too, where nod grot causes comosion to start underneath, linner silfs can be checked misself if you lift the carpets. Be slightly wany of car swith but they could also be hidding problems, or actually helping rust along by topping water.

Front scuttles are another well-known rust spot, and from here, trouble can spread to the windscreen pillars as well. Rectification is complicated...and therefore expensive.

Inside the front wing is a splash panel. Nice idea...except it rusts, and then allows water through to the inner wings and the doorpost. You can't really see anything at fault here until it's too late...so check inside that wheelarch for holes in the splash panel!

We're not flieshed with the inner wings yet. There's a stiffening box along be not, which can rurand thus cause consiston to break out allow the top of the wings. The box itself bear the property of the property of the property of the bear from here. Withen, book around the headlamps, both back and front. Bonnets, by the way, were alloy prior to 1960. After that, they were stell—and can start top on the top pand bottom corners told also highlights the areas adjacent to the bear to the property of the property of the start of the property of the property of the stell property of the property of the stell property of stell prope

Doors go at the top and the bottom, and if you see a budging sin, then corrotion is guite advanced underneadh and replacement of the skin is the best solution. If a panel looks ripply or budging, it probably incluses there's a badly repaired rusty area underneath' according to Mal. "Look inside the door from the bottom. Filler applied to Ivust actually drapt the moisture into the metal and makes things worse. Filler is excellent in good metal though."

Moving towards the back of the car, the tops of the rear wings rust, usually starting with bubbles around the beading. This is just the tip of the iceberg if you come across it, and the rot will be a lot worse underneath.

On GTs, look around the load area for signs of water getting in through the tailgate. And that tailgate itself can rust along its bottom edge. Some GTs have sunroofs, which can corrode at the front, usually the vinyl-covered metal section, so you'll need to run your hand over this to feel for bumps underneath.

Look at the battery - beneath a panel behind the seats - as acid from it often attacks what is around it, and as this area is out of sight, it can get guite advanced.

If the worst comes to the worst, there is always the option of a complete new bodyshell..but this is an extreme route. It's easier to replace the front wings than the rear ones...because the former bolt on, the latter are welded.

Contacts

Clebs

MG Car Club. Tel: 01235 555552 or www.mgcc.co.uk

MG Owners Club. Tel: 01954 231125 or www.mgcm.co.uk

Snarinlists

So where do we start? Practically every town in Britain has an MGB specialist... plus most villages as well. And any garage will be able to work on these cars, so simple and familiar are they. Here are just some of the many out there...

■ Lower Barn Classics, Suffolk. Tel: 01473 833299 ■ British Motor Heritage, Oxon. Tel: 01993 707200 or www.bmh-ltd.com

MGOC Spares, Cambs. Tel: 01954 200928 or www.mgocspares.com
 MGOC Spares, Cambs. Tel: 01954 230928 or www.mgocspares.com
 Mach Hill Grange Barks Tal: 0118 988 4674 or wasse bank hillowayne com

■ Beech Hill Garage, Berks. Tel: 0118 988 4474 or www.beechhillgarage.com
■ Brown & Gammons, Herts. Tel: 01462 490049 or www.ukmgparts.com
■ Bill Hewitt, Manchester, Tel: 0161 434 2731

HISTORY

1959 With the MGA having dragged MG into the latter half of the 20th century, work starts on its successor. The car that will eventually be logically named the MGB is known as Project EXCOS/DOC23, and will feature monocopie construction – a first for a MG sportscar – as well as a more powerful development of the B-series engine as used in the MGA.

1962 The new MGB is Isunched at where else but the Earl's Court London Motor Show in October. Initially, it is only available in roadeste form, with a 1798cc engine providing enough power to propel it to over 100mph if needed. Both press and public reaction to the new BMC sportscar is very frowarable.

1963 Overdrive – courtesy of Laycock de Normanville - becomes available as an option.

now in place of the dynamo plus synchromesh on all gears. Away from the actual MiGB story, but closely related, is the new MiGC featuring the 2912Cc engine from the Austin 3-liter. Its something of a fallure and only lasts until 1969.

1969 All MiGBs get a new recessed grille, something that doesn't prove

popula; sspecially when it emerges that the change has come from deep within British Leydand's headquarters at Longbridge. Other detrimental beneficial (delete where applicable) changes include Rostyle wheels, virigl inside instead of leather a smaller steering wheel and diminutive British Leyland badges on each wing.

1971 The MGB moves along to its Mk3 incarnation, with more changes to the inside.

1972 Further changes dispense with the unpopular 1969 grille, so that the MG badge is more prominently displayed again.

1973 Another MG offshoot is the GT V8, using Rover's ubiquitous V8.
1974 American safety regulations result in the fitment of big black rubber bumpers, plus an increased ride height. Handling is compromised and so,

frankly, are looks.

1977 The MGB falls deeper into the world of the Seventies with garish 'deckchair' upholstery inside. A slightly less noticeable change is the move

1977 The most has beeper into the work of the Sevenius with garant deckchair' upholstery inside. A slightly less noticeable change is the mov of the overdrive switch from the dashboard to the gearstick knob. 1979 Monday, September 10 is the 50th anniversary of MGS move to

Abingdon, a date that British Leyland chooses to mark by announcing the end of the MGB and, by extension, the end of Abingdon and the MG marque as well.

1980 The final MGB is completed on Thursday, October 23, despite efforts by Aston Martin to take over building the car. Abingdon is sold the following year, The MG marque will return however...

Insurance quote

- For a 1971 MGB Roadster, valued at £6500, based in Peterborough

 Fully comp. £173.25 for a 29-year-old, two years' NCB. 10.000
- mile limit, only car, kept on driveway, club member

 Fully comp, £87.15 for a 50-year-old, full NCB, 3000 miles, second car, garaged, club member

- Colne Classics, Essex. Tel: 01255 432693
 Forest MGBs, Gloucs. Tel: 01594 826112
 - Former Glory, Middlesex. Tel: 020 8991 1963 ■ Frontline Costello, Avon. Tel: 01225 852777 or
 - www.mgcars.org.uk/frontline

 Hall's Garage, Lincs. Tel: 01778 570286 or www.hallsgarage.co.uk

 MGB Hive, Cambs. Tel: 01945 700500 or www.mgbhive.co.uk
 - MG Mecca, Norfolk. Tel: 01943 700500 or www.mgbnive.co.uk

 MG Mecca, Norfolk. Tel: 01953 717618
 - Mike Rolls MG, Dorset. Tel: 01258 820337
 Moss Europe Ltd, nationwide. Tel: 020 8867 2020 or
 - www.moss-europe.co.uk
 The Barn, Abingdon Sports Cars Ltd, Hants. Tel: 01329 835393
 - The Barn, Abington Sports Cars Ltd, Hants. 1et: 01329 835393
 Bristol MG Workshop, Avon. Tel: 0117 956 6231
 MG Bits, Surrey, Tel: 01483 223830

How much?

There may be a lot of MGBs about – just take a look at a typical CCW classified section if you don't believe us – but that doesn't seem to harm prices in the slightest. These are evergreen classics, and likely to remain so for as long as there is a British classic car movement. People know they're easy to look after and work on, have unparafleed specifies tback-up and parts supply, enjoy amazing club support and, above all, are great fun to drive.

However, because there are so many to choose from, it's definitely a buyer's market_you can take your time and go for the car you really want, at the price you really want as well. It's truly a happy hunting ground for MGB enthusiasts.

No surprise that it's the earliest can which attract the most money, and, of course, Roadsters are more expensive than GTs, MkI and MkI2 Roadsters can fetch over \$10,000 in superh condition, with only slightly less money for the MkI3. However, the comparatively unlived (by many) rubber burner convertibles can be half or shout £5000, and knock over half that off if you've buying privately and happy to settle for something in average condition that could do with some ground all improvement.

The bargains of the MIGB range are the late model GTS of course. With their bulky Polyuvethane bumpes and, un Seventies styling tweaks (disclucial reasts amploody)? they can be picked up for under two grand in reasonable condition. Don't expect to get a chrome bumper example for that kind of money though. If you want sparkle, you'll have to pay a lot

MGs are easily modifiable inside, outside and under the bonnet. Such cars can attract a premium, assuming everything has been done tastefully and properly. There are some pretty special MGs out there that are well beyond what Abinadon originally intended...

Verdict

By any MCR and you'll be joining a very big club, and that I before you catally join any of the scalar why big club, the dist to book fast the these cast. Blocker's these cast. Blocker's possibly even millions by now – of owners over the years can't be to away, and although the Kids is very much the years can't be to away, and although the Kids is very much the carry life and death mind blocker's protein the product of the scalar carry life and death mind blocker's protein the crown of their kids and on the carry life and even death of the carry life and a you can catally life middle blocker's product the contract of the carry life and even death of the contract of the carry life and the

The Roadsters are tremendous fun in summer, but not so great in writer when the disadvantages of (quite often) not having a completely draught and waterproof hood usually become very apparent. That's when the GT comes into its sown..and the enclosed car is a very practical machine, with its rear hatch. You don't get that level of access in a lot of small sportscare.

And although purists and snobs may not be that enamoured of them, we've got a soft spor for the rubber bumper cars. They may not be the pretities of the bunch, but with their often lairy interiors and exuberant colours, they are a great example of how a British icon transformed itself to match the fashions of two very different decades. They're cheaper to buy and when you're inside, you won't notice the Polyurethane protuberances anyway.

And think of all the money you'll save on chrome polish too!



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Mini-Cooper (1990-2000)



Engine

By the time of the Rover Coopers, the A-series engine had been developed about as far as it could be...and was about as tough and reliable as possible too. The 1275cc is that of the MG Metro, with carburettors up until 1991, then single point fuel injection up until 1996, then multi-point injection thereafter.

Engine stabilities are quite well-known for wearing out, so grasp the engine and see if you can nock it back and forth. If you can, things are getting wask, and you'll postably find the car shudeling when the dine is taken up, stille its not to nicky to replace the stabilities, other ancillaries can get knocked out of true as the engine moves amound, and in extreme cases, even the top pipe on the radiator can be pulled out — not something you want to happen as this jaspeeds when the temperature is lightly to be pretty warm. In fact, that pipe is quite vulnerable anyway, especially on the pre-1996 cans with side radiators, thinks to internal corrosion. Radiator surrounds to contain the contained of the contained

Midfles on the carbuvettor cars are often the old bugbear of a damp distribution,—even with a protective shield fitted on the front, as these lower versions had, it still happens. According to our expert owner tan Nicholis, both types of fuel injection seem reliable enough, abthough they're not the most refliend of systems, especially the single point injection. "We never known of any complaints... In fact, I've known more modern cars to suffer a lot more problems with their complicated systems." Rough running can usually be traced to sensor problems.

However, lan did point out that the fuel-injected models can be a pain if you want to tune the cars because Rover used a standard ECU that controls a lot of other functions other than just the engine.

the oil filler cap) that presents more of an issue. Don't expect a completely oil-tight engine...they all leak oil. Sir. Just do...

Don't expect the A-series engine to be quiet. Although post: 1996 cars did go some way to addressing the usual chatter (at least what you hear from inside the car) thanks to a front radiator and extra soundproofing throughout. Tappet noise is to be expected, as is timing chain rattle, although the latter is overty simile to receiff; it is rumbles from deep within and blue smoke from behind fand from under

Specification

Specification						
Car	Mini-Cooper Carb	Mini-Cooper S Carb	Mini-Cooper 1.3i	Mini-Cooper Si	Mini Cooper S	Mini Cooper S Works
Year	1990-1991	1991	1991-1996	1991-1996	1996-2000	1996-2000
Engine	All models: 1275cc 4-cylinder OHV					
BHP/RPM	61bhp@5500rpm	78bhp@6000rpm	63bhp@5700rpm	77bhp@5800rpm	86bhp@5500rpm	90bhp@6000rpm
Top speed	87mph	97mph	87mph	97mph	97mph	102mph
0-60mph	12.2secs	11.0secs	12.2secs	11.0secs	9.65secs	8.9secs
Gearbox	Four-speed manual					
Consumption	33mpg	27mpg	32mpg	27mpg	35mpg	35mpg

Gearbox

Expect a withining from the gearbox in first gear. They all do that and, frankly, it wouldn't be a proper Mini If it didn't. However, the noise shouldn't be too excessive. Signs of "boxes that are getting past their best include disappearing synchronized around second gear, plan a gear lever that text has buryon conditional particles of the properties of the problems will set in, assuming the car hashard been too abused.

Post-1996 cars have transmissions that are essentially three gears plus an overdrive top, so lose some of their peppy enthusiasm in favour of more relaxed higher speeds, something to consider if you're looking for a Mini that primarily offers low speed fun.

Interior

The Min may have started off at a very Spartan people's car. but by the time of the Rover Cooper, it was all fleshyle evided, with suitable interior to match. Some variants even featured full leather and a valunt databloard, although oth and common plastic was more usual. There's little to worry about with the interiors—many because there's very little studies in the row recombinated. The common strength of the common strength or accordinated, thowever, leather and wood will obviously cost more to put right them be lower-spee appointments. Specific things to look at include sapping seats—replace or upgrade plant the odd effecting problem caused by poer connections around the buildhead mounted fusebox or a battery prone to praneple sound the exacts it in the propely account in pulse inside propeling sound the exacts it in the propely account in pulse inside propeling sound the exacts it in the propely account in pulse inside many propeling sound the exacts it in the propely account in pulse inside propeling sound the exacts it in the propely account in pulse inside the sound that the proper is a sound the proper sound the propeling sound the exacts it in the propely account in pulse inside the propeling sound the exacts in the propely account in pulse inside the proper sound the proper sound the propeling and the proper sound the proper sound the proper proper sound the proper sound the proper part of the proper sound the proper proper sound the proper sound the proper sound the proper proper sound the proper sound the proper proper sound the proper sound the proper sound the proper proper sound the proper sound the proper sound proper sound the

Suspension

Because even the last Minis used, essentially, the same nubber cone suspension as the first examples from Sixties, you can't expect a particularly comfortable ride from any modern Cooper. They bounce and they jar over bumps...but that's the penalty for all that superb handling.

If the Mini you're looking at decent'p posses brillium handling, them all is not well. Possible reasons are less past their best or damaged suppersion as a result of having hit a lest — the eaflest objective suppersion as a result of having hit a lest — the eaflest objective. However, building were is another field prossibility to tacked, you'll need to jack the or up and see how much you can not the front whest to go to bottom. However, but have been such as the possibility of accident damage having twisted things. Measuring the wheelshase the suppersion of the supersion of the s

If, when going around a tight corner, you hear a clicking from the front wheels, then it's likely that the CV joints are on their way out. It happens quite a lot on these cars...in fact, they're almost a service consumable!

Cars fitted with Rover's Sports Pack - which swapped 12-inch wheels for 13-inch ones - don't handle as well those with the smaller ones. They can be prone to trainlining on some road surfaces...just something to be aware of during your test drive. If you really want the early Minie experience though, you can even fit Ol-inch wheels, assuming you 'downsize' the disc trakes as well.

Bodywork

Early Rover Cooper models don't have a great reputation for quality control...what rust-proofing there was wasn't great, and paintwork wasn't the best around. Our expert owner. Ian Nicholis, has also highlighted that even the later models have their flaws. 'Some people have found they're not even oairetted under the winds,' he told us.

We've probably all seen Minis barely a decade old displaying all the usual problems in all the usual places. the seams around the headlamps, doors, sills and guttering. And that's just the rust you can see on the surface!

It's the panel pin under the headamps that is most likely to slow boulde, as it's where any water, and or all flows to collect. Other areas to look at include that little triangular panel just in front of the doors, where the Apost meters put with the scribt Even small bubbles on the surface point to lurger problems underneath. Oh, that scribt penel, at good, as well, beful the whellouth where just to the rever wing. If a way into the cabin, henry wheelstork liners were never fitted to Minis, but you can get them for these models from some specialists.

you'call get client in or interest modes from some specimes. While you're at the firent, look to at the valance, around the bottom of the windscreen pillars, and at the top of the bulkhead too. As for the windscreen pillars, and at the top of the bulkhead too. As for the windscreen pillars in substitution in the windscreen pillars in the pillar that the top of the windscreen pillars in the windscreen pillars in the windscreen pillars in the windscreen pillars in which will be windscreen pillars in the winds

And so to the slift. It's always entertaining locking for faults in this enging on any Mini. The intruom usually sitest from either the front or rear of the panel – thunks to stuff being thrown up by the wheels, and then gradually spreads inwards. It can alw dieft the flooppran too, in enterme cases. While you're locking fore and at at the slift, lock at the substrame mountaings close by as well. These are another notroins Mini gost spot, and the situation inn't helped by the stresses they have to put up with either.

Inside, have a look under the back seat - it's easy enough to lift out. The metal is often weak under here, and have a look to our der the liming of the storage bins in the back. If you're unlucky, you may went be able to see the road through the bottom of these life in fact, you should really look at any of the metal inside the cabin. Iffiring the carpest expecially, as later can were quite burnous inside, meaning that damp could easily get trapped underneath the thick material.

Shoot absorber mounts on orab. but their vere very to see.

especially the rear ones in the boot, although one is concealed behind the petrol tank. Oh, the boot_use, look at the floor too, especially the comers, spare whele and battery wells, plus where the boot Intege panel, walner and floor meet up. Water gets trapped here thanks to the rear bumper and the worst case scenario is that the lid Itself can sudderly drop off. Some of the Coopers had major wheelarch extensions to

accommodate thicker wheels. They look mean, moody and magnificent, but what's going on underneath that plastic? It's tempting to dismiss any absent or shoddy items of trim as nothing too much to be bothered about. After all, you can get almost anything to the state of the s

for a Mini, can't you? Well, yes, that's true, but there are a lot of inferior items out there that aren't up to scratch, and while they may be cheap, they won't have the same Rover quality. Now there's two words you often don't find stitting together in the same sentence.

Transmission

With efficient discs up front and drums at the rear, brakes usually only give problems on neglected cars, usually as a result of selzed cylinders, although the rear drums can start to corrode after a while, while pass at the front can wear out quite quickly. However, during your test drive, see that the car oulls us straight and true as a matter of course.

Accessories and Extras

Minis have been customised right from their birth, and Rover Coopers are certainly no exception. In fact, if anything, they're likely to be among the most modified of all Minis because Rover offered a lot of accessories through dealers...and there were John Cooper parts that could be purchased too. Bolt-on bits don't affect value, and in some instances can positively enhance a car, but make sure any changes have been carried out professionally, and if the car has been tuned to go faster, make sure that any necessary safety mods have been done too.

HISTORY

1959 And so it begins...the Suez Crisis-inspired Mini is launched as the Morris Mini-Minor and the Austin Seven. Intended as a very basic form of transport. the original models offer little in the way of performance (during development, engine size was actually reduced to 848cc because the prototype cars proved too fast) but can't help but handle superbly...which soon means they start finding themselves unofficially used for motorsport.

1961 Having been impressed by the potential of the Mini after seeing it being driven by several of his F1 drivers, including Bruce McLaren and Jack Brabham, John Cooper of the Cooper Grand Prix team suggests to Alec Issigonis that a performance version of the Mini could be built. Despite Issignosis' reluctance. BMC gives the go-ahead and what is essentially a Formula Junior-spec 997cc A-series engine is installed to create the first Mini-Cooper, available from September 1961.

1963 The first Mini-Cooper S appears, developed by Downton Engineering.

and boasting a 1071cc variant of the A-series engine. 1964 Standard Coopers have a tiny rise in capacity up to 998cc, while the S models go up to 1275cc, although there is a 970cc version for homologation

1971 Only the 1275cc Cooper S is left in production by the dawn of the Seventies, and it only survives a year into the decade before a British Leyland rationalisation replaces it with the less sparkling Clubman-based 1275 GT... and also means that the company no longer has to pay a royalty of £2 to John Cooper for every Mini-Cooper sold.

1990 With the Mini having become a much-loved British icon, renewed interest in the car has been created thanks to Rover's various limited editions. Thus the decision is taken to bring back one of the most definitive of all Minis and resurrect the Cooper, available from July. Fitted with a catalystequipped 61bhp version of the MG Metro 1275cc engine, Minilite wheels, and contrasting bonnet stripes and roof colour, just a thousand are built. All sell out before the car even reaches the showrooms. Another 650 are built just for Japan, where the Mini is still immensely popular. So successful is the exercise that the Mini-Cooper becomes a regular production model from September, with some of the features of the limited edition model deleted.

1991 John Cooper develops a conversion kit to take power up to 78bhp. The new Cooper S is consequently born. Later in the year, single point fuel injection is adopted to comply with emissions laws. Cars so equipped become known at the Cooper 1.3i and the Cooper Si.

1994 The Mini-Cooper Monte Carlo is launched in January to celebrate the 30th anniversary of Paddy Hopkirk's win on the 1964 Monte Carlo Rally. Essentially, it's a standard Cooper dressed up with rally items such as spotlights, white patches on the doors and 'Rallye Monte Carlo' stickers. A further batch of 200 follows in July with gunmetal alloy wheels.

1995 Interior improvements are carried out across the range

1996 Mini Coopers - Royer has now forgotten about the hyphen despite it nestling seductively between the two words since 1961 - get multi-point injection and electronic engine management, plus electronic ignition...which means that wet distributors, the bane of many a Mini owner's life, become a thing of the past. This also allows the radiator to move to the front of the car. However, performance suffers slightly, thanks to extra weight and the fitment of a higher final drive to make the car more relaxed on motorways. Oh, and there's even an airbag too...something it was previously thought impossible to fit to something the size of a Mini. John Cooper offers S and S Works variants, the latter with 90bhp and a top speed of 102mph 1997 A whole host of optional extras - such as the Sports Pack and retro-style

Chrome Packs - allow owners to customise their Minis to the max.

Contacts

Clubs

Local Mini clubs are everywhere in Britain...it's one of those cars for which just one club just isn't enough. However, the national organisations

- British Mini Club. Tel: 01384 897779 or www.britishminiclub.co.uk ■ National Mini Owners Club. Tel: 01534 257956 or www.miniownersclub.co.uk
- Mini-Cooper Register, Tel: 01580 763975 or www.minicooper.org ■Mini-Cooper Club. Tel: 020 7515 7173 or www.minicooperclub.com

Just as there are many clubs catering for the Mini, so there are a hell of a

lot of specialists too. Some of them are... ■ Mini Spares, Herts, Tel: 01707 607700 or www.minispares.com

■ British Motor Heritage Ltd. Oxon. Tel: 01993 707200 or www.bmh-ltd.com

■ Henley Classic Mini. Oxon. Tel: 01189 722568 or www.henleyclassicminis.com ■ Minisport, Lancs. Tel: 01282 778731 or www.minisport.com ■ Moss Europe, nationwide. Tel: 020 8867 2020/0800 281182 or

www.moss-europe.co.uk ■ M&M's Mini & Metro Spares (secondhand parts), Warrington, Tel: 01925

444303 or www.mini-metro.co.uk

Avonbar, Herts. Tel: 01279 873428 or www.avonbar.com ■ Bank Garage, Norfolk, Tel: 07712 825138

■ Midland Mini Centre, Birmingham. Tel: 0121 777 1961 or www.minicentre.com ■ Newton Commercial, Suffolk, Tel: 01728 832880 or www.newtoncomm.co.uk ■ Mini Parts Centre, Sunderland, Tel: 0191 567 5051 or

■ Miniman, East Midlands, Tel: 01564 770516 or www.miniman.com

■ Huddersfield Mini Spares, Yorks. Tel: 01484 658524 or www.minispares-online.co.uk

■ Somerford Mini, Wilts. Tel: 01249 721421 or www.somerford-mini.co.uk ■ Mini Speed, Surrey, Tel: 01932 400567 or www.minispeed.co.uk

How much?

Because they're still regarded as comparatively new cars, especially within the Mini catalogue, prices are still prone to fluctuation with Rover Coopers. We won't, therefore, try to pin down values using one of our usual tables, but simply give some ballpark figures. Particularly nice, usually later, examples of Rover Mini Coopers have gone for up to £7000 in recent times, but around £4000 should be adequate to net you a reasonable example of any of the type. If you want a cheap example, then about £2000 should be enough, but be prepared to work on it. It's likely to be more than a little rusty at that price...

Verdict

The Mini's plusses - and minuses - are well known by most motoring enthusiasts. With the Rover Coopers, you are getting the final, definitive versions of the breed, more luxurious, refined and sophisticated than any previous Mini before them

Our particular preference would be for one of the later multipoint fuel-injected ones, and we'd like it loaded with all the extras please - especially that wavy Austin-type grille that was available. But whatever your own choice, it's important to pick one where the body is as nice as you can find. It's corrosion that really lets these cars down, as for Nineties vehicles, the level of rot can be horrendous. That said though, keep that under check, and there are few other small cars from the same era (even though, really, the Mini is really from an era decades earlier) that will give you so much fun on the roads at quite low speeds, and instill the same level of enthusiasm and fanatical devotion in you as a driver and an owner.

Insurance quote

For a 1993 Rover Mini-Cooper, valued at £4500, based in Peterborough

- Fully comp. £165 for a 29-year-old, two years' NCB, 10,000 miles, only car, kept on driveway, club membe
- Fully comp, £82 for a 50-year-old, full NCB, 3000 miles, second car, garaged, club member

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MORRIS MINOR



Engines



Two engine types were originally fitted to the Minor – although you might find that when types have subsequently been modified to fit, up I and including the flower VR. Burst for the original sidesvalve engine (1948–1953) are getting scarce, but no acts worster sentert around the venerable oil A-series. No both engines, look for blue minoke on start up and under acceleration, and have a look for sign of water than the start of the

Side-alve. While the 918cc engines were good enough for their era, they're tather pedestrain and asthmatic these days, and a lot of higher pede use will take full. It's visual that the cooling system is well-maintained, as there's no water pump things are operated by themosyphon principlel, and if studge is allowed to build up. it will cause overheating. Thus, the coolant should have been changed regularly. It's tricky to adjust the tappers on these cars, which can lead to the

exhaust valves burning out, so if the top end sounds clattery, you have been warned!

Suspension All models: Front: Independent by torsion bars and links. Rear: Half-elliptic leaf springs

A series These engines have a great reputation, and even if the worst comes to the worst, they are easily floable, usually for pearuts. Because the 805c, until his to work hard, it usually deserts lates a long as its 945cc or 100cs; sollings, but it is quite common for these earliest engines to have been replaced by later, more powerful units by now, after they've gone barg. Dort expect quiet operation, as the Averset deserth Cog loads it though the common and units or the common and the series of a fine or a fine of a fine of the common and the common

Specification Morris Minor MM Morris Minor Series 2 Morris Minor 1000 Morris Minor 1000 Year 1048-1053 1052,1056 1056,1062 1962,1971 Engine 918cc 4-cyl sidevalve 803cc 4-cvl OHV 948cc 4-cvl OHV 1098cc 4-cvl OHV BHP/RPM 27.5bhp@4400rpm 30bhp@4800rpm 37bhp@4750rpm 48bhp@3000rpm Top speed 60mph 62mph 75mph 77mph 0-60mph Slowly, oh so slowly 52.5secs 30secs 24.2secs Gearbox All models: Four-speed manual Consumption 36-40mpg 37-44mpg 36-42mpq 36-40mpg

Running gear

You can probably expect some axle whine. Yes, it does mean the differential is wearing out, but no, it doesn't mean that failure is imminent. Sometimes, they can go on like that for years! And even when replacement is called for it's not exactly that difficult.

Truntion and bush were is common, especially if now trunnions have been fitted to dislingains. Try to get redderive that both have been fitted to dislingains. Try to get redderive that both have been resplaced at the same time. Assuming all the suspension grease rigides have been historized every thousand miles or sp, polities stoud between the standard truntions should be few and far between. Althought if the greating has been skipped, the threaded in man into an advantage of the man in the standard truntions and cause the front suspension to collapse. Nastyl With the car jucked up, you can grow the few of the standard truntions and bushes are worn by resing how much the wheels can be noted, trunt to provide the standard truntions and truntions are not the standard truntions.

Transmission

If the ca jumps out of pour when lifting off after acceleration, the geator's to its 1 year out. The same thing applies in the year out. The same thing applies in the event of noise from first and reverse gears as well. "although the boars still have the ability to go on froage. With the 802cc cars, the conical spring on the lever has been known to break easily, which means engagement of the raiso will become tricky and the synchrometh cones - which are made of brass tricky because the 10 Hospital Charles are known to be pretty tough and reliable, but second gear synchromesh is lawly to were out forther the denter on their millage cars. It is lawly to were out forther the denter on their millage cars, or broken study har or a less than right seady cable between the geatow and the coorsembles.

Chassis

It's the underneath where these cars are liable to deteriorate most, uniese by owners who posits the rest of the car to perfection every Sunday. Look at the two chassis rails either side of the engine. They rot, or are bodged, and although they can be put right, it's a complex operation that won't come cheap. As with many old classics, the forward test spring mountaings are with many old classics, the forward test spring mountaings are strong they are, as should the flat panel underneath the boot catch, which of the rots.

From inside the engine bay, look at the tops of the inner wings (where the nuts for the wing bolts are), plus the tie plates at the bottom of the bay, bulkhead corners and the crossmember down below the radiator.

Bodywork

Well, the good news is that all off the outer panels just bolt on and off spain, which make it exister to duel with the fact that, actually, facris Minors do rust a fair bit. After all they were chaps frithing can alway and the masses, and it was probably never emissaged that so many of them would be surviving into the 21st century. Fortunately though, the East that so many law does means that practically everything is available, certainly for the later cans, top ut right what has soon even gon a Minor; if necessarily never the properties of the

Start your timourn exploration at the front wings, which tend to go at their rear edge plus around the headlamps. Wings can easily be bought new—well, accept for lowlight ones— and don't cost too much. You should also check the rear ones carefully as well. These like to rust towards their bottom edge, as well as around the piping. Other areas to be checked for superficial cornision inside the boot, the inner wings and the flange where the rear wings bolt on.

Finished yet? Not by a long shot. If you open the door, and the hinge pillar seems to flex, then it points to corrosion at its base. It may not be easy to see, but it'll be there.

Onto the still, which are susprisingly complicated constructions, given how simple the rest of the car is. This means that they're other just patched up with cover still, cor those shiny stainless steet intim while consists continues are stated in the state of the state in the state of this areas in tentry by squeezing the capter covered to section at the base of each door shut. and if there is any give, it is not a good sign. Another check to do is to the capter covered to section at the base of each door shut. and if there is any give, it is not a good sign. Another check to do is to the capter shad have a look under the seast at the central consomerbic. As this is structual, corrotion here will have to at the sets of the foot over specially in a conventible - with particular regard to how secure the metal is around the front seat mountings.

Open top can have their own problems of course, because structural problems on cause the car to say, if the doors are difficult to look, then this is laikely to be the reason why. It's quite common for salows to have been convented risin, un, convertibles, which is all well and good, assuming that the proper strengthering has been carried out. although they will be worth 20 percent less than the real thing; Look for plates at the bottom reasons in study meough. If you've wording just how to real! if a Allinoir is a genuine convertible, then post-1962 cars have a MAT chassis prefix.

And finally, Travellers, where the state of the wood is vital, as it's not just there for display. Discolouration of the ash is something to be cautious of, as is soft, pitted or painted woodwork. To put wood right on one of these means practically dismantling the rear half of the car. Which isn't a task you want to take on lighthy.

Parts prices

 1098cc crankshaft
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 1098cc Duplex timing chain kit
 £24.99

 1098cc lead free cylinder head
 £165.00

 plus £100.00
 surcharge

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 £23.42

 Gearbox, reconditioned
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 plus £800.00 surcharge
 \$200.00

 plus £800.00 surcharge
 \$200.00

1098cc clutch kit
Front brake drum
1098cc front brake shoe kit
Exhaust system, stainless steel
Fuel tank
Fuel pump
Carpet set, 1098cc saloon
and convertible

£79.99	Front wing, heritage,	£84.99
£24.99	Front wing, pattern.	£59.99
	Upper trunnion kit,	£14.99
£55.99	Swivel pin, reconditioned,	
£165.00	with trunnion.	£69.99
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Contacts

Clubs

Morris Minor Owners' Club. PO Box 1098. Derby. Derbyshire. DE23 8ZX. Tel: 01332 291675 (8.30am - 3pm) or www.MorrisMinorOC.co.uk ■ Morris Minor LCV Register, Tel: 0121 422 1334 or www.minorlcvreq.tk

It's probably actually easier to list those classic car specialists that don't cater

for the Morris Minor. But here goes. Morris Minor Centre (Bath) Ltd, Somerset. Tel: 01580 200203 or

www.morris-minor.co.uk ■ Mr Grumpy's Morris Minors, Oxfordshire, Tel: 0865 326828

■ The Morris Minor Parts Centre of London, London, Tel: 020 8543 2264 ■ Morie Spares, Essex, Tel: 01992 524429

■ East Sussex Minors, East Sussex. Tel: 01580 200203 ■ Minor Developments, Worcs. Tel: 01562 747718

HISTORY

1943 Despite Britain still being at war, and there being an official ban on the development of new cars, a prototype new Morris is cobbled together at Cowley, Dubbed the Mosquito, the car features unitary construction, rackand-pinion steering, and a flat-four 800cc engine. Development continues. throughout the rest of the war and into peacetime, and is initially kept secret from Morris boss Lord Nuffield...who would later refer to it as "a poached equ."

1948 The Mosquito has metamorphosed into the Minor, and is unveiled at the Earl's Court Motor Show as a two-door saloon and a tourer. Largely unchanged from its 1943 style, it has nevertheless lost the 800cc flat-four engine - which could never be made to work properly - but gained an extra four inches in width, added at a late stage and made noticeable by the split windscreen, ridge down the centre of the bonnet, and blanking plates in the middle of the bumpers. The all-new - well, except for the 918cc sidevalve Morris Eight engine - car immediately provokes interest

1950 The headlamps, initially down by the side of the grille, are moved to the top of the wings to comply with American lighting regulations. And a four-door model is introduced too.

1952 The British Motor Corporation is formed by a merger between Austin and Morris. Austin finds itself at the top of the tree, and one of the first actions of the conglomerate is to fit the overhead valve Austin A-series engine into the Series 2 Morris Minor...something regarded as anathema by Morrisophiles, no doubt devastated at the intrusion of an engine from a bitter rival into the Minor's engine bay 1953 The Minor range expands - literally - with the advent of the Traveller

estate and, for commercial users, the van and the pick-up versions. The first vans supplied to the GPO come with rubber wings complete with separate headlamps mounted on the top 1954 There's a small revamp, with the front grille adopting horizontal slats,

plus a new interior with a centre speedometer.

1956 Engine size goes up to 948cc, prompting a change in name to Morris 1000, presumably because Morris 948 sounds less impressive. Other changes include a new windscreen, now all in one piece, plus restyled rear wings and a larger back window.

1960 The millionth Minor is completed on December 22. In celebration, 350 two-door models are finished with lilac paint, white trim and special

badges. 1962 Top speed goes up to 77mph, thanks to an increase in A-series engine size to 1098cc, which gives 48bhp, rather more than the 27.5bhp the car originally started out with.

1964 Having to fit seatbelts to the range prompts BMC to go for another interior redesign, with better heating and - gosh - a glovebox lid! 1969 Convertibles disappear from the catalogue.

1970 With the replacement Morris Marina just around the corner, the saloon version is dropped.

1971 The final non-commercial Minor to be constructed is a Traveller. However, in December, a Minor van is built for the Post Office. After it has rolled down the production line, the final tally comes out at 1,619,857 of all types built

- Leadbetters, Lancs, Tel: 01257 275314 or www.leadbettersoflancashire.co.uk ■ Woodies, West Sussex, Tel: 01243 788660 or www.morriswoodwork.co.uk ■ MGM Spares, Derbys. Tel: 01942 820181 or www.mgm-spares.co.uk
- Charles Ware's Morris Minor Centre, Bristol. Tel: 0117 300 3754
- or www.morrisminor.org.uk ■ Minor Parts of Oxford, Oxfordshire, Tel: 01993 830349 or www.
- minorpartsofoxford.co.uk ■ Mason's, Northants, Tel: 01933 222270
- Tom Roy, Cleveland, Tel: 01642 723400 or www.tomroy.co.uk ■ Minorite UK, Rutland. Tel: 01572 755022
- Morris Minor Centre South West, Cornwall Tel: 01425 461241
- Fast Yorkshire Morris Minors, Yorks, Tel: 01482 647123. ■ Minor Services, Cambs, Tel: 01353 662485 Minor Medics, Bucks, Tel: 01908 510736
- Minor Mania Ltd. London. Tel: 020 8959 0818 or www.minormania.com
- London Minor Centre, London, Tel: 020 8692 9544 ■ Essex Suffolk Morris Services, Essex, Tel: 01206 542039
- The MM Parts Company, South Yorks. Tel: 01302 859331 ■ Morris Minor Centre (Birmingham) Ltd, West Midlands. Tel: 01206 542039
- Moggy Factory, Shrops. Tel: 01952 619661 or 0802 718433 ■ Newton Commercial, Suffolk. Tel: 01728 832880 or www.newton

How much?

These are very popular cars, and values reflect that. Not that they're particularly expensive to buy, but bearing in mind they were cheap family cars when new, the heady financial heights they can now reach are a little out of proportion to what they once were. Like Minis and Volkswagen Beetles, these are people's cars that have definitely improved their status and worth in life. Still, the good news is that, once you've bought one, practically everything else for it, such as parts, insurance and running costs will be delightfully cheap

The earlier you go, the more expensive a Minor is likely to be...with the big money reserved for the first Series MM models, especially if they're open top and have their lights set down low. Getting on towards £7000 might be the dealer price for a good one. Go younger, and the more plentiful 1000s are considerably cheaper and, to be honest, even easier to look after

Because the saloons are still everywhere, less numerous versions such as the estate (in particular), van and pick-up can demand an extra premium, but it's the open top cars that you'll really have to spend the cash to buy. In this case, less (roof) is most definitely more.

Verdict

There's little argument to be had against the Morris Minor, Okay, it may be the Ford Mondeo of classic cars - so numerous are they and so simple to look after - but it is historic vehicle ownership made easy. And it's been responsible for attracting thousands, probably even millions, to the movement. Along with cars like the Mini and the MGB - all the Ms. have you noticed? - the Morris Minor practically is the British classic car

But which to buy? Well, you'll get great specialist support, spares back-up and club interest with any. But the first cars, with their pre-warbased engines, are a little too velocity-challenged by today's driving circumstances, as cute and cuddly in appearance as they undoubtedly are. For those going into Minor ownership for the first time, a 1098cc. saloon is a great introduction to the breed. It will give you a taster of what to expect, and at the many and varied club events, you can work up an appetite for the other models within the range - the convertibles, Travellers and pick-ups, from the Forties to the Seventies - that can come afterwards. For, truly, owning a Morris Minor is more a way of life than simply having a classic car

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MORRIS OXFORD/COWLEY



Engines

"Generally, the B-series is a very good engine," says Phill Green of Earlpart...and he's right, for the B-series was (and is) a tough old thing capable of standing up to a lot of abuse. Its later use in the MGB (allbeit in larger form), means that parts availability is quite impressive for a humble car of this age.

So it's the usual things you should look out for most of all, such as blue smoke from the enhant indicating wom bores (if there's smoke under accideration or valve stem seads past their best of it is on the overnut. Expect the engines to be noisy with supperst and some timing chain rattle—it's what they do—but any other unexplained noises should give cause for concern. Fortunately, there's an oil pressure gauge on all the cars... for which you should look for around \$10 to 60ps when crusings. Expect it to go down to about 10 15 psi

pressure gauge on all the cars...for which you should look for around 50 to 60psi when crusing. Expect it to go down to about 10-15psi at idle.

"Lead free running doesn't do these cars a lot of good." believes Phil. "Especially if you do a lot of miles. It's best to get a lead-free head for real peace of mild Fortunately. Exigant has these in shock, at 284739 sectange, including VMC, or (you want to go the whole hou, and the standard of the standard on the whole hou, and the standard of the standard on the whole hou, and the standard of the standard o

a lead-free engine is \$38.83 exchange, including VAT. He recommends fitting a lower temperature thermostat though. Which brings us atterh nicely to temperatures. These reqines can run hort. "Overheading is often caused by radiations being gunked up or head gaskets going," says Phil's colleague. Kevin Eyre. "Of course, it's the overheading that causes the head gasket to go." His advice is to keep an eye on the temperature, gange during any text drive.

Oil leaks are pretty much an accepted part of ownership with these cars. "The front timing case seal is felt rather than rubber," says Kevin. "Which means they drop oil. It generally only tends to happen when they're standing though. They can be modified with later engine parts to accept rubber seals...assuming you can find the parts."

Car	Morris Oxford Series 2	Morris Cowley 1200	Morris Oxford Series 3	Morris Oxford Series 4 Traveller	
Year	1954-1956	1956-1958	1956-1959	1957-1960	
Engine size	1489cc 4-cyl OHV	1200cc 4-cyl OHV	1489cc 4-cyl OHV	1489cc 4-cyl OHV	
BHP/RPM	50bhp@4800rpm	42bhp@4500rpm	55bhp@4400rpm	55bhp@4400rpm	
Top speed	73mph	65mph	73mph	76mph	
0-60mph	29.0secs	37.5secs	39.3secs	29.9secs	
Gearbox	4-speed manual	4-speed manual	4-speed manual	4-speed manual	
			or Manumatic semi automatic	or Manumatic semi automatic	
Consumption	26mpq	29mpq	29mpq	26mpq	
Suspension	All models: Front: Independent by torsion bars, wishbones, telescopic shock absorbers. Reart live axle and half-elliotic leaf springs telescopic shock absorbers.				

Holding the middle ground for Morris during the Fifties was the Oxford and Cowley range, the first mainstream use of the B-series engine. RICHARD GUNN looks at what might go wrong with that unit... as well as the rest of the car. Expert help comes from Kevin Evre and Phil Green of Earlpart

Gearbox

On earlier cars, you'll find a column-mounted gearchange, while the later (Oct 1958) cars onwards sported conventional floor-mounted levers. The latter is far easier to use than the former, usually because of wear in the complicated linkage of the column system. However, that can be put right. Swnchromesh tends to go with ace.

However, Kevin Eyre sounds a note of caution about oil levels. "Look for leaks on the seals. The rear seal is felt, then a rubber item... and this can let oil past." Other than that, the only other thing he flags up is split gearbox mountings,

something that also strikes the engine mountings as well. The two-pedal Manumatic semi-automatic system was a rare beast, and not that popular when new. Parts for the system are very difficult to get hold of...but it's quite unlikely you'll come across a car employing this system.

Differentials don't usually play up...although it is quite common to fit parts from an A60 Farina or MGB to make the car feel somewhat less strained at higher cruising speeds.

Interior

While wood is about - these are just miror Morrises after all -you will find bather in use on the uplotitery in Oxfords. Oxfords, Cowley owners had to make do with just PMC. Seats are resilient enough, although you should expect some were and tear after \$0 or so years, with splits down the seams often quite common. Leather will obviously cost more to put right than just PMC fa rettrin is required, and it's the sort of expenditure that you'll never not back if you self the can rice as it may look.

The painted dashboards can get chipped, and damage to the oval-shaped plastic that surrounds the instruments on Series 3 cars is quite common too. There isn't much in the way of trim available, so buy a car

with the best interior you can find or be prepared to spend your time hunting high and low at autojumbles. Don't forget to try all the electrical items out. Not that there are too many to play with, but dodgy earths, bad connections and previous amatteurish attempts at revering can all cause things to stop working. Modern drivers don't notice semaphores at the best of times, even when they are working when they



Bodywork

These can an very well-bull. In fact, over-engineered is a necessable way of describing them. Their metal was very thick which meant that they managed to resist ruts at their well for years. However, given that ramey claceds have passed since these can sween new, ruts is inevitable, and it's probably highly utilitiely that you'll find a completely original example highly utilities have you'll find a completely original example; just as well, as factory panels are now extremely scarce for these cars. authorized hinasis to the Hindustan Ambassador's continuing existence, it's possible to get indian-bull bits. They may need some letting to get them to fit and makes user you'd don't end up with ones featuring the modern Millie's for front different.

Because of the integral strength of the monocoque, there aren't that many places that rust badly, although you should get down underneath to check out the chassis legs, especially where the front ones join the transverse crossmember. It's approximately under the front seat.

Cosmetic corrosion is likely in the front wings, where the leading panel and grille overlap, and scrutinise around the headlamp area as well and slills, inevitably, are unlerable areas too. The A-post also breeds tinworm, and from here, it can spread to the neighbouring inner and outer sills, floorpan and front wing.

At the back, the rear wheelarches like to go, usually around the area close to the rear doors. Even if no problems are immediately apparent, check for signs of filler. As for floorpans, apart from the afore mentioned spot around the sills, the rear seat pressing also suffers, thanks to the

sloping floor which makes a handy water trap.
You should have a look in the boot, just to check that all is well, although you probably won't encounter too much of

Look at the bottom of the doors...and then open the quarterlights. These of the deteriorate underneath their frame, and, in extreme conditions, the glass can fall out completely. Thanfully, unlike on Morris Minor Travellers, the wood on early estates sin't that important to the structural integrity of the car...although, obviously, buy the best you can if you don't want the cost of renewing the timber.

Brakes

concern

Simple drum brakes all around shouldn't display many faults... just check to see if they're working as they should. And if they're not, don't bother about it too much, as any rectification should be a pertty straightforward and inexpensive job.

Suspension & steering

The suspension is conventional enough, albeit dotted with nipples that need greasing every 1500 miles. If this isn't done, wear will soon set in, resulting in new trunnions and kingpins being required. According to our Earlpart experts, "Everything

else is just routine maintenance."
You should expect quite sharp steering, as a rack and pinion system was employed to point the car. If the car wanders, then further investigation is needed, either for the above reasons or to check if the steering rack itself is worn.

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nplete engine gasket set £67.52 Driveshaft, 1.9 GTI £22.91

ock absorber, front on bars, pai er pump, 1.9 GTI

Engines

Visually, there's little difference between the 1.6 and the 1.9 engines, so if you want to make sure you're buying what you hope you are, look at the identity plate - which you'll find at the offside back of the engine. A 1.6 engine will begin with XUSI, while the 1.9s start XU9JA. If you want further proof, look between the sump and the cylinder block, 1.9s have a half-inch thick alloy spacer here, 1.6s don't

Keeping to the 6000-mile oil change schedule is recommended on these cars_it's the difference between the likelihood of 60,000 miles and 100,000-plus miles before major work is required. Camshaft wear and valve gear problems are likely to be the main problems encountered, with clattering from the top end and blue smoke from behind the respective signs of trouble. However, on any high mileage car, you should

expect some valve noise...just because these aren't really high tech engines. 1.9 engines seem to be less long-lived than 1.6s

Keep an eye on the temperature gauge. On high mileage examples, these can clog up, with the result that the car tends to overheat. Still, replacements are cheap enough.

Cambelts should be changed every 36,000 miles. If one snaps, it will wreck the engine, and it's a wise precaution to replace it upon buying a car unless it has been done very recently. You never know, and it's not very expensive to do.

Oil leaks are most common from failed crankshaft seals, at the side of the engine. Putting these right means taking the engine out. Oil exiting on the front left of the block, where it meets the head, means a failed head gasket around the main oil feed, Rectification means

And so to fuel injection. Which, being Bosch, doesn't suffer too much in the way of problems, but does need an expert to put it right if it does go wrong once in a blue moon. A faltering or missing engine points to trouble, but could also be down to just blocked breather hoses. Easily cured. Something else you should be on the lookout for is if a non-standard air filter has been fitted. If the airflow meter hasn't been recalibrated, this can cause running problems. Want something simple? Okay, starting problems, which can be often resolved by just wiping away a small oil leak in the distributor

housing. Yes, it really is that basic...occasionally!

Specification

Car	205 GTI 1.6	205 GTI 1.6	205 GTI 1.9	205 GTI 1.9	
Year	1984-1986	1986-1991	1986-1991	1991-1994	
Engine size	1580 4-cyl OHC	1580 4-cyl OHC	1905 4-cyl OHC	1905 4-cyl OHC	
BHP/RPM	105@6250	115@6250	130@6000	122@6000	
Top speed	120mph	122mph	123mph	122mph	
0-60mph	8.6secs	8.6secs	7.8secs	8.0secs	
Gearbox	All models: five-speed manual				
Consumption	30mpg	30mpg	28mpg	28mpg	
Suspension	ion All models: Front: Independent by MacPherson struts, coil springs,				

and transverse torsion bars, trailing arms, telescopic dampers, anti-roll bar.

Transmission

Is there a knocking that sounds like a worn CV joint? It might not be, and could be a bearing about to go in the differential. If that happens, it can actually split the gearbox casing, with the result that a new one is needed. Obviously, replacing the bearing before this happens is the best option.

Difficult gear changes are often little more than worn bushes in the linkage, most commonly found on cars that are used a lot around towns. Clutch cables can tend to get stiff with a lot of use, resulting in awkward changes and judders between ratios.

Where once there was the Volkswagen Golf GTI, by the mid-Eighties there was the Peugeot 205 GTI, ruling the roost of small European hot hatches, **RICHARD GUNN** goes through the catalogue of what to look for when you're Pup hunting

Electrics

French cars shave something of their Italian counterpart' reputation for dody electrics, and although the 205 is pretty good in this respect, if does suffer from some foibles, most notably dame, which attacks the terminals and corrodes connections. Finding out just where the fault lies can be a time-consuming stack, and it worst be helped if amateurs have been messing with the wiring to add in extra accessories. Somethin that happens suule a lot on modified GTBs.

Look at the driving lights, set under the front bumper. These rarely survive intact, and once they're broken, the housings start to rust away. Headlamps often get affected by damp, resulting in the glass becoming unstuck. The result – albeit an extreme one – is that the glass can fall out completely.

If the engine idle fluctuates when a lot of electrical equipment is turned on, it's liable to be a faulty or overloaded alternator.

From 1990, convertibles had electrically operated hoods. These only work with the engine off and the ignition on. Rather bizarrely too, the oil warning light needs to be working. Any inactivity is usually down to just a faulty or dirty oil pressure esnos, but do make sure you check. You don't want to be saddled with a convertible where you can't put the hood down or worst still. un again!

Interior

On the 1.6, cloth was used on the seats, while more affluent 1.9 owners were treated to half-leather trim. The cloth isn't that good a quality material and splits with a lot of use. It seems to be worse on pre-1988 models. Side bolsters tend to collapse as well, and

the door bins are often damaged by careless use of feet. If the car you're looking at has a sunroof, then check around it, and the area of the interior directly below. If the drainholes become blocked, it can result in damp getting inside the car, which will cause further problems with the trim, as well as

introduce the likelihood of corrosion in the roof.
You should lift the rear seat to look at what's happening with
the metal underneath. It's a prime spot for corrosion, and often
goes unnoticed.

Windows can be difficult to wind down...but usually, all these will require is some grease on the mechanism to restore the ease



Bodywork

Because these are cars that are often driven -shall we saysomewhat fraitily, accided chamage can be a real sizes. Thus stand back at first, just to see how the car looks in general. What are the panel gaps like After there are yingles? It everything straight? You can back up any suspicions by looking at the near hatch, back thomper and bost floor, as when there cars do go off the standard properties of the standard properties of the cars of side windows are also indications of possible crash damage. and they're often disquised by filler.

One way of telling whether or not a car has had any work done at the front is to look at the bonnet slam panel - that's the bit just above the grille. This was left unfinished by the factory, but if it has been replaced, it will probably now be body-coloured.

Being Eighties and Nineties cars, rust isn't as much of an issue as it would be with an older car, but seeing as the earliest cars are now in their Twenties, it does need to be checked for. Look around the rear screen, where corrosion often sets in after spreading out from behind the glasswork towards the bottom of the panel, as well as the sill where it meets the back wings. Although you should scrutinise the whole sill as a matter of course - especially where the fuel tank butts up against it, thus unintentionally creating a great little grot trap. Door bottoms (which should be protected by anti-chip paint if the car is original) and rear arches are also prime spots for tinworm, or filler used to hide such. Look around the headlamps too...as water often gets trapped behind these. The front wings are usually only vulnerable to corrosion if they have been replaced at some time - there should be sealer in the seam between the inner and outer front wings, which often gets omitted if work is carried out, thus allowing grot to collect here

Bonnets are prone to stonechips – but they don't usually turn to rust unless there are a lot of them all clustered together – and boots can start to corrode inside, thanks to water getting in through the locks.

On convertibles, don't forget to check the condition of the hood, and pay close attention to the plastic rear window, as it offen cracks.

Modifications

205 GTIs are popular cars for modifiers to wreak their own worst on. If things are done well...then great It can enhance the driving experience and the value of a car, especially if something like a Peugeot Mi16 or Citroen BX GTI 16-valve engine has been fitted. But be wary of amateurish attempts to tart a car up. If it doesn't look good, it probably isn't.

Brakes

1.9 cars with handbrakes that don't work are often quite common, thanks to the cable operated cam seizing in place. It's quite a lengthy job to put right, as well as an MoT failure of course.





Suspension

For the last two years of the GTI's life, power steering was an option, but while it's a handy thing to have, cars that don't have it aren't exactly heavy-handed, GTI suspension can wear its bushes out if used enthusiastically, with clonking from the front pointing to worn wishbone bushes or bottom ballioints. Drop links on the anti-roll bar also cause the same symptom if they're past their best. Out of all of these, it's the ballioints that will be quite expensive to put right

Bearings on the back axle are known to seize quite easily, and that will mean an entire new back axle if it happens. Try lifting the rear of the car to see if the suspension moves. If it doesn't, then it's likely that a bearing - or both of 'em - are about to expire. A car sitting down low on one side points to the same thing. A creaking noise can point to imminent problems, although it may also be a much-less scary shock absorber signalling it is getting near the end of its life.

We haven't finished with the back wheels yet. They should lean slightly inwards at the top. If a car has hit a kerb with some force though, they probably won't...and the stub axle pins will need replacing. Think that's it? Not a bit of it. The mounting blocks can also break, which will mean the handling goes to pot. Sadly, the only way to find this out is to jack the car up and check the area. something the current owner may not be too impressed about. Although, of course, if the car's handling is bad, this is something you should suspect.

And finally, is the spare wheel there? On 205s, it is carried underneath the boot...and easily stolen by thieves. Yes, it really does happen! Especially on cars with nice alloys.

1983 The Peugeot 104 - the French car firm's innovative supermini, around since the early Seventies and also badged as a Citroen and a Talbot at various times - is superseded by the even more enigmatic 205 model. This pertly handsome front-wheel-drive car features several different engine options, and there is an attempt at injecting some raciness with the 79bhp GT and the mid-engined T16 1.8 Turbo of 200bhp..although a mere 200 of these are built for rally homologation purposes.

1984 Finally, something to challenge the Golf GTi, with the launch of the GTI version of the 205 in February. Its 1580cc fuel-injected engine of 105bhp gives it a top speed of around 116mph, and extra handling prowess is afforded by its stiffer three-door shell. At this stage of the 205's life, all standard cars were five-door only.

1986 Peugeot and Pininfarina cut the roof off the GTI to recreate the CTL..my, what a witty name! Everything is the same as on a standard GTI except, obviously, there's a hood instead of a tin top, and thus a little less torsional rigidity during enthusiastic driving. Not that that seems to bother anybody too much. Later in the year comes the 1.9 GTI, with a 1905cc engine of 130bhp, thus giving it a top end velocity of 120mph, Other differences to the 1,6 are disc brakes all around and half-leather seats. The 1.6 does get a slight boost up to 115bhp, thanks to using the cylinder head and valves from the 1.9 engine.

- 1987 Dashboards are redesigned.
- 1989 The gearbox on the 1.6 never one of the car world's best is replaced by something a little slicker.
- 1990 The fitment of a catalytic converter results in power on the 1.9 dropping to 122bhp.
- 1991 The CTI gets the 1.9 GTI engine, when the 1.6 model is dropped in April. Among the options now available on the GTI are airconditioning and anti-lock brakes.
- 1994 Manufacture of the 205 GTI ends in April, so that Peugeot can focus instead on its newer 106 and 306 GTI models. The total number built had reached 332,942. The standard 205 soldiers on until 1998. when it is replaced by logically enough, the 206.

Contacts

- Club Peugeot UK, tel: 01604 862369 or www.clubpeugeotuk.org
- Peugeot GTI Autosport Club, tel: 07079 356002 or www.peugeot-ati.net ■ Peupeot Sport Official Owners Club. tel: 0845 644 3107

■ LAD Motorsport, Lancs. Tel: 01524 62748 or www.ladmotorsport.co.uk

- Peugeot Parts, Wimbledon, Tel: 020 8241 2056 or www.peugeotparts.org ■ Pug Performance, Hants, Tel: 01420 587377 or www.pug-performance.com
- Pug Spares, online. See: www.pugspares.co.uk ■ Autofive, Cheshire. Tel: 01606 782555 or www.autofive.co.uk
- Dean Hunter, Yorkshire. Tel: 01977 677887
- Neat Autos, Middlesex. Tel: 01895 907050 or www.parts4peugeot.com ■ German, Swedish and French Car Parts, nationwide, Tel: 0870 6060153 or www.gsfcarparts.com

How much?

Ordinary 205s can be picked up for pennies these days. 10 years out of production has dropped them through the floor into bargain basement territory, and just a few hundred pounds can net you guite a good one.

However, the 205 GTI is still held in high regard today by many hot hatch aficionados, and that means that prices for it remain on the high side. We're not talking about mega money here, but around £3000 for a top example is guite good money for a 15 to 20-year-old small French car, If you don't want near perfection, then perfectly usable Pugs requiring some tidying and TLC can be had for around the grand mark

The smaller-engined cars are worth a little less than their more potent 1.9 sisters of course, with the differential being around £500. As with so much in classic car life, if you want more power, than you have to pay more for it.

Verdict

There isn't that much difference between the 1.6 and the 1.9 GTI in terms of performance, but those who know 205s actually rave most about the lower-powered car. They cite it as having the best handling of the two types, and to be honest, it's hardly that lacking in speed ability when compared to the 1.9, and when are you ever going to make use of its extra five miles an hour or so above 100mph anyway? Save yourself some money, and go for an unmolested, cared for and fine-throughout example of a 1.6, and leave the 1.9s to those who think that bigger engines mean everything. You'll be just as happy as they are ... and you won't have spent so much either



Insurance avote

- For a 1990 Peugeot 205 1.6 GTI, valued at £2000, based in Peterborough
- Fully comp, £241.00 for a 29-year-old, two years' NCB, 10,000 miles. only car, kept in driveway, club member
- Fully comp. £121.00 for a 50-year-old, full NCB, 3000 miles, second car, garaged, club member



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106 / Sixxo 8v & 16v, 205 / 309 Gti 306 All Models, 206 All Models

105 Rallye/Gti Front Antirolibar Bushes 105 & Saxo Lower Engine Mount Torque Bush 5/309/306 Uprated Rear Bur

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106 / Saxo Engine Mount Kit Race/Rally 106 / Saxo Lower Engine Torque Bush 106 / Saxo Uprated Front Wishbone Rear Mounts

205 GTI Fibreglass Front Wing

205 GTI Carbon Fibre Front Wing 05/206/309/306 Carbon Fibre Bonnet 205/206/309/306 Fibreglass Bonnel 106/205/306 Fibreglass Tailgate

106/205/306 Carbon Fibre Taligate 205/309 Carbon Fibre Front Door Cards 106/Saxo Carbon Fibre Front Door Cards 108/Saxo/306 Carbon Mirror Covers 206 GTI Carbon Fibre Engine Cover 106 Gti Carbon Fibre Rear Spoile

Peugeot 205 Ph2 Clear Indicator Units (NEW) oox Motorsport Competition Bonnet Pin Kit 105 S2 Safety Devices Cage Mount Kit Exhaust Heat Wrap 1" x 50FT Qualle ATB LSD

2 Way Bleed Valve In Car 3 Way Adjustable Bleed Valve 105 Gtl/Saxo VTS Silicone Oil Breather Hose Kit

Complete Engines (1.9 16v & 2.0 16v) Mi16 Engine Wiring Harness

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T16 Slimline Fan Kits Silicone Oil Breather Hose Kit

III Spoox Are Vehicle Lowering Experts III

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205/309/306 Eccentric Strut Top Mount Kit

Cylinder Head Skimming, Porting & Polishing 8v Porting & Polishing 16v, 3 Angle Valve Seats Crack & Pressure Testing, 106 G6 Fast Road Cams 1.9 M16 Fast Road Cams

106 GTI/SaxoVTS EBC Greenstuff Front pade Genuine 306 GTI-6 Big Brake Kit 206 Gti 180 Mintex M1144 Front Pads 206 Gti 180 EBC Greenstuff Front Pads 206 Gti 180 O/E std Replacement Front Pads Peugeot 205 1600 GTI rear brake drum Genuine Peugeot 206 180 big brake kit 206 Gti 180 O/E Standard Front Discs 306 GTI-6 Mintex M1144 Front Pads

306 GTI-6 EBC Greenstuff Front Pads 306 GTI-6 TBrown Grooved Front Brake Disc Set 306 GTI-6 TBrown Grooved Front Brake Disc Set 306 GTH6 Standard Front Pads 306 GTI-6 O/E Standard Front Discs odridge 106 GTI/Saxo Braided Hose Kit odridge 205 1.9. 6 Line Braided Hose Kit

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Engines



Porsche engines are usually renowned for their quality and ability to go on forever, and that's just the case with the 944. Assuming the right level of regular care, the engines should reach 200,000 miles with ease, with the Turbo and three-litre engines likely to easily sail past even this. Check to see how if the cam belt has been changed as it should. Every 35,000 miles is the usual period. You can check the oil pressure from the usually reliable gauge on the dashboard. On a warm engine, one bar on tickover and three bar at about 2000rpm indicate an engine that is healthy enough.

Look for smoke from the rear. If there is some, then suspect worn bores, and it's best to go and look elsewhere, as the cylinders are Nikasil-coated. These mean that they last a long time, but when they do go, the price tag to repair will be hefty. Is the car vibrating on tickover? It is? Then suspect a worn engine mount, the likely candidate

being the one on the exhaust side. Is it vibrating at 3000rpm? Then suspect the balancer shaft being a little out of sorts, thanks to the timing not being done properly when new belts

The 2.5-litre S cars had a 16-valve engine, and these do have a major Achilles' heel. One of the pads on the cam timing gear tensioner can become weak and, if it breaks, the engine will pretty much destroy itself. Replacement pads are cheap - just a few pounds. Replacement

· and prices	
All parts from Porscheshop.co.	ık, and
Cam belt kit. 8v. includes	
all parts needed.	£197.64
Cam belt kit, 16v, includes	
all parts needed,	£245.58
Front pads, 1982-1989, 9445,	£33.84
Front discs, pair, 1982-1986,	£62.98
Brake master cylinder,	
1987 onwards,	£185.86
Engine mounting, 8v,	£68.15
Full exhaust system,	
stainless steel, S2,	£581.63
Fuel injection airflow meter,	
Divo load cot 16u	6136.00

Engine rebuild,	
from	£2585.00 to £3231.25
Reconditioned gea	rbox, exch,
944S/Turbo	from £757.88
Starter motor, exch	

944S/Turbo	from	£757.88
Starter motor, exch,		
from	£237.12 to	
Wishbone & Ball Joint	exch,	£305.27
Power steering pump	exch,	£292.58
Rear shock absorber, t	to 1985,	£52.41
Clutch kit, S2,		£398.33
Dedicas seed		C10100

engines aren't!

Car	Porsche 944 Lux	Porsche 944 Turbo	Porsche 944S	Porsche 944 Turbo S	Porsche 944S2
Year	1982-1989	1985-1989	1986-1992	1988-1992	1989-1992
Engine size	2479cc 4-cyl OHC (2688cc from 89)	2479cc 4-cyl OHC	2479cc 4-cyl OHC	2479cc 4-cyl OHC	2990cc 4-cyl OHC
BHP/RPM	163bhp@5800rpm (165bhp from '89)	220bhp@5800rpm	190bhp@6800rpm	250bhp@6000rpm	211bhp@5800rpm
Top speed	137mph	158mph	143mph	162mph	147mph
Gearbox	All models: 5-speed	manual or 3-speed autom	atic		
Consumption	25mpg	22mpg	24mpg	22.2mpg	20/7mpg
Suspension:	All models: Front: Ir	dependent by MacPhers	on struts, single wishbone	s and anti-roll bar. Rear: Ind	lependent by semi-trailin

Maybe it doesn't quite have the cult of a 911 or a 928, but the Porsche 944 still makes a great sub-supercar buy...and it comes cheaper than a lot of its siblings too. **RICHARD GUNN** looks into buying one.

Wheels

Don't underestimate how much it will cost to replace tyres if they're nearly worn out. The alloys fitted as standard on these cars were big – bigger still on the Turbo – and replacement rubber isn't cheap. The Porsche



alloys themselves are lighter than most modern counterparts, so if aftermarket items have been fitted, it can make the steering heavy.

Interior

Things are tough enough inside to stand up to all manner of abuse, but some problems are likely to occur with more aging cars. The driver's seat is prone to its bolsters wearing out after lots of use, and the sun doesn't do the dashboard a lot of good, with cracks inevitable after a lot of solar exposure. However, much is available either new or secondand – but for a price.

Check the electrics work as they should, although to be fair, they don't usually go wrong. More prone to failure is the air conditioning, which can develop leaks. Check to see that it is working as it should during your test drive.



Suspension

It's all pretty conventional up front, with MacPheson struts and, asside from hall joins on the lower widebone arm that we are out frequently, nothing gives too much trouble. However, the joints make up for this - they are expensive to replace as they are a minegarily part of the arm. You might have thought that things would have got better by the time the Seines 2 carned along, but you'ld be wrong! Because Provide just stanted making them You can check for worst by jacking the run joan of laying to work the wheel too to bottom - and try it with the steering on full look both ways, at this will make the problem easier to spot. Oct both ways, at this will make the problem easier to spot.

The rear suspension – transverse torsion bars and a transaxle
- is much more complicated...but thankfully, it's pretty much
impossible to break as well. About the worst you'll encounter is
likely to be leaking shock absorbers.

Bodywork

With a galvanised body, don't expect rust to be an issue with these cars. They will stand up to a lot, and if you do come across one showing signs of corrosion, it's more likely to be a pointer towards poor repairs rather than original build quality. Which should start fronting alarm bells.

However, don't assume anything, So look all over for signs of timoving, which aganticular attention to the undermeath of timoving, which aganticular attention to the undermeath and looking for signs of welding as well as nsst. Accident damage is the blegges concern though — these cars are often driven in ways that make unwanted trips into the scenery highly likely > o look at the park > o look at the park > o look at the park | year of the driven with year in mind that these are Portches, and so gaps scall round uniformity, Bear in mind that these are Portches, and so gaps abanet where the gap at one extreme is larger or smaller than it is at another are sins to be supplicition of.

Other pointers to be aware of are repairs to the floorpan and the inner wings – or crumpled and creased metal in these spots – if the area hasn't been attended to, and on metallic cars, it is hard to get good colour matches if areas have been resprayed.

However, if you really want to search for 'naturally occurring' rust, then look at the fuel and brake lines. Any corrosion on brake lines should be picked up at MoT time, but fuel lines can slip by. They're more likely to deteriorate near the tank.

Transmission

right.

You'll find either a five-speed manual or three-speed automatic transmission on these care, going through to a transacke at the rear. This gives great balance, but also can cause problems with the torque tube that runs front to rear. A high pitched whihe from under the car points to the bearings on these being worm. and soon, the whole rear expect this to come cheap. Another cause of whiring – both from the car and the owner.

– is the differential in the transaxle. While a lot of 944s have it, and it doesn't automatically signal an imminent rebuild as cars can soldier on for ages with this symptom, eventually you will have to face the prospect of a replacement gearbox, and that's about the £800 mark.

Another possible malady is a seized gear linkage, most likely to afflict post-1987 cars, with the culprit being a knuckle joint above the gearbox. It's not that difficult to have a garage fix though, but can be an annoyance.

flough, but can be an amoyance.

If you're driving an automatic car and there is a clonking noise as the drive is taken up, it points to a dodgy drive plate – something like £400 to fix. Still, at least this is cheaper than a clutch on a manual car. These can be quite problematical.

The friction plate wears out, and the centre plate has rubber instead of springs to take up the drive (except on the Turbo). There is an inspection plate on the bell which can be removed, and from there you can try to twist the input shaft if things are okay, then there should be no play. But, if the

rubber is past its best, than expect movement of up to 30 degrees!

CV joints on the driveshafts at the rear can wear out as they will on any car, but fortunately, these are quite cheap to put

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Driving

From inside a Porsche 944, before you stir the car into life, it's difficult to appreciate you're in a high performance machine. The functional interior hardly smacks of svelte smoothness and sportscar flash, although the long oval instrument panel does have a certain presence to it.

But once you rouse the Porsche engine into life - it may be just a four-cylinder, but it's based on premium slice off the side the 928's V8 unit so it's hardly a slouch - the real Porsche magic comes into play. Fuel injection and electronics mean that the engine is compliant when it needs to be, but delivers all the goods when required, and it does actually feel like more than just a four, thanks to the balance shaft damping down any roughness and its inherent free-revving abilities. The steering is very direct, and at whatever speed you are going, there's a lot of feedback passed back to the driver via the steering wheel. Handling is excellent, partly due to the sophisticated and effective suspension but mainly down to the almost 50:50 balance thanks to having the gearbox at the rear of the car. These are cars to drive enthusiastically - but thankfully, with the vented disc brakes. there's also the ability for the speed to quickly disappear when the driver needs it to

HISTORY

1977 Having learnt a few valuable lessons about water-cooled, front-mounted engines from the 924 of 1976 and the soon-to-arrive 928, Prosche starts work on the 944. Although similar in looks to the 928, the new Porker is actually quite different underneath, with a new 2479cc four-funder engine (based on one half of the 928 VB) generating 163bhp. It's a definite step up from the Volkswagen van-enined 924, but not quite as storming as the very potter §28.

1981 The 944 is unwelled at the Frankfurt Motor Show, and neatly plugs the gap, both in power and performance, between the 924 and the 928. The impressive, purposeful looks impress right from the start.

1982 Deliveries of the 944 Lux - the base model car - begin.

1985 just as it had done with the 924 a few years previously. Proctice introduces turbocharging to the four-pridire engine of the 944. The changes push the price of the 944 full thou up into 911 territory, and the 944 full through the 944 full territory and the 944 full territory and process the 944 full territory and process are fitted to handle the extra compil, and visually, the variants can be identified from the norm by their integral polywethane bumper plus a tailgate spoiler. The whole range gets a revump, with out-shaped without fitted. These can be become retrospectively out-shaped death-board fitted. These can become retrospectively

1986 Another new offshoot comes along in the form of the 9445 16-valve model, slotting in between the Lux and the Turbo.

1988 The 944 Turbo S sees power up to 250bhp, with a limited slip differential as standard and ABS anti-lock brakes as an option.

1989 All 1944 Turbos now feature the "5 specification as standard. The 2.5-litre engine of the Lux is increased in size to 2688cc (with 1564) on tap), although it doesn't last very long before it is superseded by the 94452, which has gives 21 blop from its 2990cc unit. As well as the coupe. customers can also buy a carbiotlet model.

1990 Behind the scenes, Porsche engineers are beavering away on an 53 version of the 944. However, although the eventual shape of this car bears a strong resemblance to what has gone before albeit with the pop-up headlamps now unleashed from behind covers - so much is new that it is dubbed the 968 instead of the 94453 when unveiled in 1992.

1995 The last of the 944 line - the 968 - goes out of production, along with the 924.

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Contacts

Ch.

■ Porsche Club Great Britain, Combury House, Cotswold Business Village, London Road, Moreton-in-Marsh, Gloucestershire, GL56 0JQ, Tel:+01608 652911 or www.porscheclubgb.com

 The Independent Porsche Enthusiasts Club, 6 St. Margaret's Drive, Chesterfield, Derbyshire, S40 4SX. Website: www.tipec.net

Specialists

- TWG Motorsports, Cambs. Tel: 01733 332911 ■ Porscheshop, West Midlands. Tel: 0870 0055 911 or
- www.porscheshop.co.uk
- Carlians, Surrey. Tel: 01483 286000 or www.carlians.co.uk
 Hartech Automotive, Lancs. Tel: 07000 100944 or
- www.hartech.org.uk
- Hillcrest Specialist Cars, Berks. Tel: 01491 642911
 Camtune, Surrey and London. Tel: 08707 555911 or www.camtune.com
- Douglas Valley Breakers (secondhand parts), Lancs. Tel: 01257 472866, 424695 or www.douglasvalley.co.uk
- Barr-Tech Specialist Cars, Cambs. Tel: 01223 425300
 Porsch-Apart, Lancs. Tel: 01706 824053 or www.porsch-apart.co.uk

Market Trends

Chap Posches are few and far between - unless you're talking about the 924-but these cas are more reasonably priced than most, has to that whole 'worng position of engine and wrong type of cooling' to thing that can so offed some Posche enthusiasts. Naturally, with the Turbos priced guite a bit higher than the normally expanded can be carried that premium does go you extra performal positions of the price of the price

Prices now seem to have reached a stable plateau, and should remain more or less where they are for some while to come. It's a good time to buy-look at the figures, then look at the performance. That fort a lot to pay for such quality and quantity...especially considering there's a Possche badoe on the front!

Verdi

Buying an older sportscar is always something of a risky proposition, but at least with a Possche – and quite a modern one at that – you know you've got a head start on the rest when it comes to build quality and general reliability. With corrosion unlikely to be an issue and mechanical maladies something you'll have to deal with later rather than sooner, it's not so much if you should bur a 94-but when.

And, of course, what type as well. The Turbos are enormously entertaining, but much sought after as well, which puts their prices up above the normally aspirated examples of the breed. But for just starting out and cetting the

buzz of the 944, a S or S2 certainly won't be lacking in entertainment value, and will be cheaper to busy and cheaper to look after too. It's the Porker we'd olump for.



Insurance auote

For a £6500 1991 Porsche 944 S2 based in Peterborough
Fully comp. £100 excess. £557 or £515 (with Cat 2 immobiliser) for a
29-year-old, two years NCB, clean licence, 10,000 miles, only car, kept on
drive, dub member

Fully comp, £100 excess, £324 or £298 (with Cat 2 immobilser) for a 50-year old, full NCB, clean licence, 3000 miles, second car, garaged, club member Quotes from Firebond (0870 111 0464 or www.firebond.co.uk)

Buyer's Datafile: Porsche Boxster

Porsche's first attempt at a mid-engined road car since the 914 of 1969 – which wasn't the success that it had been hoping for – was the Boxster. IAN SEABROOK discovers whether it deserves classic status

orsche has always had a bit of a problem. When the 928 was conceived,

it was thought that it would eventually replace the already elderly 911, but it dated rapidly and fell out of favour with the public. Two attempts to create a budget Porsche – the 914 and the later, front-engined 924 – also failed to provide much in the way of success and the

968 was the last in that line. Yet, Porsche knew it couldn't maintain a viable company with just the 911 in production.

Hence, in the early Nineties, Porsche again revisited the roadster market – dominated by the Mazda MX-5 at this time. Was there a market place for a premium roadster? It would certainly fit in nicely below the 911. But whatever Porsche

did, it had to avoid making the car feel like a budget Porker. It had to deliver in terms of driver appeal, quality and thrilling performance – the hallmarks of the famous Stuttgart company since the Fifties.

Launched in 1996, the Boxster proved to be exactly the right car for the job and sales immediately took off.

Is it a classic?

Lefs be honest. no. it ion't a classic vest filt man of our world this is one to keep an eye on. Sure, you could buy a decrept if 91 for less than £10,000, but why bother when you could own an early Boxster for that? You get a flat-six engine which sings gloriously right behind your early you also get a convertable with an onne of the pendulum' issues of the 911, a comfortable cabin and modern safety equipment.

There's no denying that it is a bit modern - Prostche is still making the Boxster albeit following some fairly substantial revisions in 2003. They don't have the glamour of a 911 either but, unlike some earlier attempts at a cut-price Porsche, this is very definitely worthy of the badge.

What's out there?

Early cars all have the 2.5 engine in 201bhp tune. Variomatic valve timing means plenty of grunt while once revving, power is delivered very strongly indeed. However, the press at the time called for more power, being the bhp-obsessed junkies that they are and Porsche duly delivered with the S in 1999 which developed a forceful 260bhp. At the same time, the 2.5 was replaced by a 2.7 with power up to 228bhp. There was a further facelift and more changes in 2003 and a new model designation in 2005, but that really is getting far too modern. We'll focus on the 1997-2003 cars

Gearboxes are either a five-speed manual or five-speed Tiptronic (although the 5 had a six-speed manual from 1999) but otherwise, it's just a case of checking what options the car you are looking at was kitted out with a the time. Incidentally, a little known fact is that the Boxster rolls off two

production lines – one in Germany and one in Finland – where the vast majority have been produced.

What to look for? This is where the car really betrays.

its lack of classic heritage. They don't rust, are generally reliable and don't even leak when it rains! However, repairing a Boxster isn't a cheap business so you need to make sure that the one you are looking at has been well cared for, and hasn't had any nasty accident damage hidden

any hasty accident camage nides by filler. BODYWORK: All cars are fully galvanised which makes things nice and tricky for the rust fairy – unless accident damage has been poorly repaired. Have a good look underneath and check for overspray where panels meet. There are two radiators – one about of each front

whee, which insides been values and wheel a far front impact has taken place. A small spoiler between the rear lights lifts up automatically at 75mph to reduce lift - neatly advertising to the world whether you are speeding! Thus you'll need to book a private test track or go over to Germany to check if this is working, of course. However, there is a manual over-ride, so check that it operates properly.

Does the hood retract properly? It should disappear in 12 seconds, and make sure that the doors open smoothly with the hood up – alignment issues can make the doors a pain to open. Another thing to check with the hood up is the state of the rear window, as it is plastic and

can go foggy.

ENGINE AND TRANSMISSION: This was the first flat-six from Porsche to feature water-cooling — mainly due to the complexities of keeping the new four-valve cylinder heads cool as well as better control of emissions. The heads are identical which means that there is a camshaft drive at each end of the engine. Thankfully, these

are driven by chains which should never need attention. The valve timing is varied by changing the pressure on the chains.

Getting to the engine can be troublesome as it is hidden by the hood, but all the important bits like the dipatic kar accessed through the rear boot. An engine with a problem should be fairly obvious but check that history as the ancillary belt should be replaced every 120,000 miles - which is a bit of a mission given the tight access.

mission given the tight access. Some engines can develop oil leaks but the only way to really check this is to get the car up in the air so

you can see undermeath.
Gearbows rarely give trouble,
regardless of whether manual or
Tiptronic although the gear linkage
on the manual cars can go all wobbly
in a very un-Porsche-like manner.
SUSPENSION, STEERING AND
BRAKES-No real issues to check
for here although vou need to have

a good look at all four tyres - are

they wearing in an unusual manner?

Wheel alignment is critical for the Royster and tyre wear will become excessive if anything is amiss. Brakes are ventilated all around and the benefit of the large alloys fitted to most Boxsters is that you can easily check them for condition without having to whip the wheels off INTERIOR: Porsche interiors are legendary for their quality feel and hard-wearing nature, so make sure everything is in good condition and that no-one has felt the need to make tasteless modifications or drill holes in the dash to mount their mobile phone. Such people are undeserving of your custom. You do need to check that everything works though, which leads us nicely into. ELECTRICS: Ab-hal Perhaps it is a

can strike, so as well as making sure everything is functioning, make sure there are no warning lights showing – althags did go through a phase of signalling that there was a fault although hopefully, such niggles will have been eradicated by now. By 2000, there had been recalls on the passenger airbag de-activation. Fightonic gear selecto and the ignition switch, so you may twent to check that the car you are

classic after all? Electrical gremling

looking at has been back to have the rectification work done. The parts situation

Main dealers will obviously still sell you everything you need, but there are also a number of Porsche specialists out there. Parts prices courtesy of Porscheshop (www.porscheshop.co.uk) are

Specialists

Porscheshop, West Midlands, www.porscheshop.co.uk or 0121 585 6088

Clubs

■ Porsche Club of Great Britain, www.porscheclubgb.com or 01608 652911

What should I pay?

You could spend less than £10,000 to get into a Bosten but as with any hampin' you need to make sure that you aren't just buying a whole heap of trouble. We really would recommend buying from a trader with this one – purely because a warranty could pay for itself with a Boxster. Not that they are unreliable but any repair work that is required is going to be costly. Prices rise to around £18,000 for a 2002. St

Should I buy one?

If you want two-seater, roof-down fun with a sing-song engine that delivers a healthy punch, handling that is entertaining (if not as exciting as a 911) and a degree of practicality, the Boxster is hard to beat. Yes, some people will hate you just because you are driving a Porsche, but at least you can revel in the knowledge that the Boxster is a very sound soortscar.

SPECIFICATION

Engine:	2480cc flat-six DOHC per bank
Power:	201bhp@6000rpm
Torque:	181lb/ft@ 4500rpm
Top Speed:	139mph
0-60mph:	6.5secs
Consumptio	on: 26-32mpg
Gearbox:	5-speed manual

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Engines

coolant!

The tough old V8 lasts for ages, the 2000/2200s a little less so, but on all engines, check for blue smoke from the exhaust and listen out for disturbing noises from deep within that really shouldn't be there.

2000/2000: The later 2000s are more refined than their earlier 2000 offshoots, and generally less noisy in operation. However, both are very fixing about the spark plugs fitted, and prefer Champion ones, the brand originally specified. The blocks have belt on metal sidesplates. Now reasy trips to be innovative by allowing access to the internals, but by now, all the plates really do is let codain poor out as result some, bear in midd that each with fine sidespine the water in the engine middle by some, bear in midd that each with fine sidespine the water in the engine middle by

its, and decoded to be set by stime, and the operation involves and the control of the control o

If the engine sounds on the tappety side, then support the valve clearances. These need to be set by shims, and the operation involves removing the cambral Art. Best once which ye been done, they should last for ages, Timing chains—for there are two—also contribute to noise, if getting past their best. You can tell the difference by the sounds they make. The upper one makes a noise rather like a hollow ringing sound a pour thories of the sounds o

If you see leaks from below the cam cover, then such is the nature of the P6. Most owners just learn to live with things.

If a twin-carburettor car feels somewhat out of tune, then it's probably those two carburettors that are the problem – balancing them can be tricky.

We if you're seeing about 30 just from a warm engine, then all is well. However, if you see 15 just - well, things, aren't as roy at they could be, but engines can use on like this for age. However, eventually, he block will get damaged due to work bearing affecting the alloy around them. A fickering oil warning light at sille betrays this. Try to accretain 20W 50 oil has been used when changes have been carried out, with recover'like present and the contract intervals and well of whether than can be a single of interval corrosion.

Hydraulic tappets will probably be quite noisy at first, but should get quieter once the engine warms up and oil becomes thinner. However, if the tappets remain noisy, then suspect oil starvation. Your course of action is to replace them...SD1 items last longer.

Pre-1974 cars have a rear crankshaft seal made of rope – yes, really – and unsurprisingly, it leaks. To sort it out means taking the engine out...
unless you can get hold of a tool called a "Chinese Finger" – we know, we know, it's just getting more and more bisarre now, isn't it? – with which
you can hook the seal once the sump has been taken of. After 1974, a more durable nubbe seal was adopted for later care.

Specification					
Car	2000SC	2000TC	2200TC	3500	3500S
Year	1963-1973	1966-1973	1973-1977	1968-1976	1971-1976
Engine size	1978cc	1978cc	2205cc	3528cc	3528cc
BHP/RPM	4-cyl OHC 90@5000	4-cyl OHC 109@5000	4-cyl OHC 115@5000	4-cyl OHC 144@5000	4-cyl OHC 150@5000
Top speed	104.5mph	110mph	112mph	113mph	125mph
0-60mph	15.1secs	12.6secs	11.4secs	10.8secs	9.1secs
Gearbox	4-spd man /3-spd auto	4-spd man /3-spd auto	4-spd man /3-spd auto	3-spd auto	4-spd man
Consumption	24mpg	24mpg	21mpg	18mpg	20.1mpg
Suspension	All models: Front:	Independent by transver	se bottom links, leading	upper links, coil springs	, anti-roll bar, telescopic

dampers. Rear: De Dion-type tube incorporating sliding joint. Watt linkages, coil springs, telescopic dampers

Suspension

Suspension is horizontally-mounted coil springs at the front - chosen to leave enough room for the gas turbine engine that was originally envisaged - plus a de Dion rear tube at the back. Rears tend to settle with age and use, and the hub ends of the tube elbows corrode from the inside, usually as a result of a split gaiter. Something else that can happen is that the rear suspension top link can pull away from the boot sidewall, something else that happens when the metal has seriously corroded. These are the main faults - but there are also the usual bushes, balljoints and clonking universal joints. Polyurethane bushes are available to replace standard items. If the front suspension is creaking, then it points to a rubber dome missing from between the top link and the front spring. Easy enough to replace, assuming the area isn't corroded enough that it makes it dangerous to compress the spring. Very heavy steering - obviously on non-power assisted cars indicates a steering box and idler that haven't been lubricated properly. If you find heavy steering on power-assisted cars, then suspect a leak...and look underneath to confirm.

suspect a leak...and look underneath to contirm.

Don't forget to look at the tyres – if there is wear on one side of the rubber, it points to wheel alignment being out of true, something these cars are very sensitive to. It seems to especially affect cars with power steering.

Brakes

Ah, one of the more annoying things about P6... Its brakes. Or rather the near ones, which are onboard, either side of the differential. This makes them tricky to work on, and you won't appreciate changing the pads, so it's worth having a look underneast to see if you can find signs of scoring, One of the biggest problems is the differential leaking, and contaminating the discs, which makes them effectively useless.

Interior

Interiors vary between cloth, viryl or leather. The former sags, the latter cracks, and the one in the middle splits. Leather is obviously the more expensive option to retrim, as new interiors are rare now, although one descondand stuff is still outle common at autoiumbles.

The first 2000s had real wood on the doors, but as time went on, Formica became the norm...nice! Obviously, it's cheaper to replace though. You may even get away with MFI or Homebase... Warded dashboard tops are quite common, thanks to sunlight through the front screen. Beclarements are scarce.

Transmission

If gearbox problems occur, then it's far more likely that It will happen with a Y8t han a 2000/200, as these transmissions of have the top tru ty with a lot of power going through them, and the ±500 care only have a modified version of the ±2000 gearbox top lay with. Gear teeth can be worn away, and if that happens, your best course of action is a new language many graderost. Our may find a flee-peed gearbox in place. If so, the has probably come from an 501 or Sherpa van, it's a good of so, the has probably come from an 501 or Sherpa van, it's a good that the she was the considerably more relaxed as soed.

If the gearbox is noisy in neutral, then suspect worn layshaft bearings. Oil leaks happen quite a lot, due to seals perishing. And if the gearstick itself feels very loose and wobbly, then the likely culprit is the bush at the bottom of the lever, which breaks or just wears out.

As for the automatic 'boxes, there are few issues, save for the internal corrosion caused by having been left standing around. However, the four-cylinder cars do suffer from some problems due to the driveplate which connects the torque converter to the engine crankshaft being made of thin metal. This can break – and, if it does, it's a sure sign of crank endfloat.

If the car you're testing has a slipping clutch, it's best to walk away.

On the four-cylinder cars, the engine has to come out. On a V8, the engine AND the gearbox have to be removed...

Bodywork

Older cars are more generally robust than the newer ones – remember that Rover passed into the British Leyland era from 1968, and quality did suffer. One way it manifested itself was with the way the paint was applied on the doors, leading to corrosion in the inner frames.

The structure of the P6 is a monocoque shell, to which the outer panels are bolled. The good news is that this means everything on taken off easily. And, as a bonus, the bootlid and bonnet are made of alloy, so they won't nst...although electrolytic degradation can happen where steel meets alloy. Plus they're more easily damaged.

However, what this close mean is that none of the panels are structural—no, not even bouter slift. It sharks since that is now important. Even though a car looks stanning on the outside, it could easily be hiding structural problems undernesst... so it very official, to relif you're bolding as a generally good car or an all-outs of bodder and training sold problems of the structural beautiful problems of the part of the structural beautiful problems of the structural buy. In part of the structural buy the part of the structural buy bodding at the kickplets under beer can develope if you're sportly or underness. Ho can have a look under the captes and under the underness. Ho can have a look under the captes and under the underness. Ho can have a look under the captes and under the search of the structural buy or underness. Ho can have a look under the captes and under the search of the structural buy or underness. Ho can have a look under the captes and under the search or the structural buy of the search or the structural buy of the search or the the search or t But, whatever you do, don't ever try to jack up the car using these. The metal isn't likely to be nearly as strong as it used to be.

Look at the D-posts too, in front of the rear wheelarches. Rust – or filler, if it has been picked up on by a previous owner – here isn't a good sign about the integrity of the base unit. Amateur work around this area is often highlighted by the channel that hold the door rubber being missing. Feel underneath the wheelarch itself for indications of rust.

The ridges on the front wings, handsome as they may be, can collect water, which then leads to rust in the inner wings. This can also strike from underneath too, as a result of road muck. The stainless steel trim at top of the front A-post is another popular tinworm spot.

If panel fit looks a bit off, then don't be too concerned, as shims can be added or subtracted to make things better. However, very large gaps should be checked out, as it points to a panel having been put on recently. It could be down to accident damage, it could be to hide rust, or it could be because corrosion undermeath is very bad and is

allowing the bolts to move.

The battery lives in the boot – and its tray can suffer from acid attack. Other trouble spots nearby include the floor and suspension

mounts.

Brightwork usually lasts okay, although you should be prepared for some pitting of the Mazak parts.

Parts prices

- and process	
All prices from J R Wadhams Ltd	
Front disc brakes, V8.	£55.0
Master cylinder, all models.	£70.0
Front brake pads, V8, with sensor,	£24.0
Radiator, V8 three-core conversion.	£120.0
Water pump, all models,	£65.0
Front bottom ball joint.	£26.0
Front top ball joint.	£30.0
De Dion elbow, reconditioned.	£150.0
Bonnet, export (with air intake cut-outs).	£375.0
Reconditioned front wing, from	£135.0
Bootlid, with strengtheners for spare wheel mounting.	£100.0
Front bumper, 2000/2200.	£200.0
Starter motor, exchange, V8.	£75.0
Exhaust 2000/2200, complete system, stainless steel, from	£380.0
Exhaust, V8 manual, complete system, stainless steel.	£460.0
Fuel pump, exchange, £	65.0
Carpet set.	£250.0
Clutch plate, 2000/2200.	£30.0
Clutch plate, V8.	£50.0
Five-speed gearbox, secondhand, from	£400.0
UR anning carondhand from	6200.0

Contacts

Clubs

- P6 Rover Owners Club, c/o 22, The Street, Moulton, Newmarket, Cambs, CB8 8RZ or www.p6roc.com
- Rover P6 Drivers Club, The Rover P6 Club, PO Box 1477, Wolverhampton, WV10 n 8WZ. Tel: 01902 689975 or www.p6club.com

Specialists

- Red Hat Rovers, Cambs. Tel: 01480 890224
- Rover Classics (Ray Weekley), Lincs. Tel: 01205 870805 ■ Turnpike Motor Company, Norfolk. Tel: 01379 897096
 - John Wearing, Lancs. Tel: 01254 883603 ■ Ely Service, Cambs. Tel: 01353 662981
 - JR Wadhams, West Midlands. Tel: 01384 393008 or www.inwadhams.co.uk
- Www.jnwadhams.co.uk

 John Mann, Derbyshire. Tel: 01246 271036

 Kingsdown Classics, Oxon. Tel: 01367 244646
- DJE Rover V8 Specialist, Warks. Tel: 024 7635 2888 or www.djev8.com

■ 5 & G Walker, Essex. Tel: 01245 460214

Market Trends

Although Rover PS prices are now quite high, and interest in the P6's successor, the SDI, has been causing values to rise recently, the P6 itself has remained financially quite static over the last few years...and there's little likelihood of that changing in the near future. So you're buying these cars to enjoy them, not to make a quick buck.

No surprise that the V8s are the most expensive of the bunch. Prices of really nice examples are now hovering around the £4000 mark, especially for manual transmission ones. That's around a grand greater than the four-cylinder equivalent.

Fortunately, you can still pick up tidy examples for around £1000 if you're lucky and quick. At that sort of money, it will probably be a 2000 or 2200 rather than a 3500, but it's still a Rover P6. And still cheap for all that you get...

Verdic

In common with a great many British classic car enthusiasts, we adore these cars here on CCW...whatever their engine size or age. They're handsome and innovative, wonderful to drive and easy enough to maintain, thanks to good spares back-up, and the interiors are pleasant and stylish places to spend time in. They're one of those cars about which everything seems to be just right.

However, as good as the 2000 and 2200 cars are, you can't help but compase them to the VB models, which are little short of seminal. It's actually a little bit of a problem, because the knowledge that the same car is available with an exit to originate and much more power does detact away from the last cylinders and much more power does detact away from the last cars in their come right, that this Rover. Via., there anything it can't do! If you can fired a 3500 with a manual gestroot want the boot-mounted spare wheelp, yout probably be satisfied for life.

Insurance quote

For a £2750 1973 Rover P6 3500S, with no modifications, based in Peterborough

- Fully comp. £100 excess: £231.00 for a 29-year-old, two years' NCB, clean licence, 10,000 miles, only car, kept on driveway, club member, with Cat 2 immobiliser.
 - Fully comp,£100 excess:£73.50 for a 50-year-old, full NCB, clean licence, 3000 miles, second car, garaged, club member, with Cat 2 immobiliser. Quotes from Firebond (0870 111 0464 or www.firebond.co.uk)

HISTOR

1958 With the Rover P5 a year away from launch, Rover starts looking at a new saloon to replace the now rather eldenly-looking P4. However, the planned success is to be something yery different, aimed at a younger, more thrusting market than the more mature bank managers and doctors who are the preserve of the P4. Rather a radical specification is the concept of a monocous estel skeleton over which the exertion peanls can be hung.

1959 Prototypes bearing some resemblance to the eventual P6 appear. However, they have streamlined fronts and the headlamps in little pods, giving them a vaguely Frogeye Sprite air. In order to disguise the model's origins, the cars are badged Talago. Rover has even gone to the trouble of setting up a Talago Motor Company, just to confuse things further.

1963 The new P6 - Enrown to the world as the Bower 2000 - is unneiled at the London Motor Show. It's nothing like any Rover that has gone before, a compact but very handdome salioon, with an interior that excitews the usual traditional wood veneer drawing room ambience and goes for a very up-todate look, full of termyl plastic and even a strip speedomester. The 1978cc, four-cylinder engine of 908bp is all new too. For Rover, it's a radical creation, and justifiably lives the inaugural Car Of the Year award.

1966 What was the original Bover 2000 changes identity to become the 2000SC, thus making room for the 2000TC with twin carburettors and more performance as a result. There's also the 2000 Automatic... which has much less.

1967 The TC, originally just for export, is made available in the UK.
1968 Rover's new ex-Buick V8 engine, up until now just used in the PSB, finds one of its greatest ever homes under the bonnet of the P6. The Rover 3500 is little short of magnificent, a fast, competent and very smooth executive saloon, Initially it is only available as an automatic.

1970 It's the British Leyland era, and thus the P6 gets a corporate facelift with a honeycomb grille at the front. Also appearing are a stainless steel trim down the side, black sills, and, seeing as it now is the Seventies, a solash of vinvl on the side roof pillars.

1971 At last, the manual 3500 arrives, with a four-speed manual gearbox.

The main distinguishing feature is a full vinyl roof, either in black or brown, depending on the rest of the car. The police love lemi

1973 The smaller-engined four-cylinder cars get a useful fillip in the form of a bore out to 2205cc.

1976 The writing is on the wall for the P6 range, with the launch of the equallyy as cool Rover SD1.

1977 All P6s cease manufacture once the smaller-engined SD1s come on stream. Total production is 439,135, split into 327,808 2000s, 32,270 2200s and 79,057 3500s.

Buyer's Datafile: Rover 800, 1986-1991

The Rover 800 turns 20 years old this month, so what better time to review the pitfalls in getting one? KEITH ADAMS takes us through the trials and tribulations in buying the first generation version of the Anglo-Japanese replacement for the much-loved SD1.

BACK in the late Seventies, the state-controlled car company, British Leyland, found itself in an awful mess. The Princess, Allegro and Rover 501 all suffered from a reputation for terrible unreliability and customer confidence was at an all-time low. The 501 especiality had its once bright state terribished by poor fit and flinish, awful retails values and fishey paint – and the prime objective for wholes and fishey paint – and the prime objective for retains outsomer confidence.

A deal with thomach schedered by company chairman

Sir Michael Edwardes, on Boxing Day in 1979 gave the company the opportunity to produce a new generation of cars bristling with Japanese technology – and

hopefully with reliability to match.
The first case — the Rover 213 and Triumph Acclaim—were essentially re-branded Hondas, but the new executive car, the BOU, was an alloughether more different proposition when it was finally launched in 1986. The car was a truly collaborative eithic, fleaturing Honda Woenjines, pearboses and suspension, but unique Boy Assenced shifting and an all-new 1902 after sector length.

The package was a sales success after a faltering start, and although the launch was overshadowed by that of the new Jaguar XJ40, the Bower 800 went on to become a market leader once the entire range of neems disease factbarks and salonos was on sale at the

petrols, diesels, fastbacks and saloons was on sale at the turn of the Nineties. Some may mourn the passing of the V8, but back in the Eighties, the crisply styled saloon was exactly what Rover needed to restore its executive pride. Here, we're focusing solely on the original series Rower 800 that was

replaced by a facelifted Mk 2 model in 1991.

Is it a classic?

Maybe, but not quite. The Rover 800 was a very significant car for a company in the throse of leaving the protective bosom of government ownership – and re-joining the harsh world of commercial competition.

In its day, it certainly looked good, and possessed an interior ambience that the SDI could only dream of. Today, things are a little different — the sightly anodyne styling, front-wheeldrive chassis and adequate rather than stunning engine choice mean it's still regarded by many as a secondhand, as opposed to classic car.

However, the early Sterling and Vitesse models have picked up a cult following, and ask yourself this – when was the last time you saw one on the road? If classic status were defined purely by numbers remaining, then the 800 would already be they.

What's out there?

The great aspect of buying into the Rover 800 is that there are versions to suit every pocket and preference. The four-cylinder versions aren't exactly thirsty, and as they're available in three states of tume, you're almost guaranteed to get the power and performance you're looking for.

The V6 versions are smooth and silky, and as long as you're not afraid to use a few revs, are actually very quick on the road. As for the VM-powered turbo diesel version, it's certainly economical when driven gently and quick when not. Just don't expect smoothness to form a part of your daily life.

What to look for?

The Rover 800 was not the best-built car to emerge from Cowley, but the good news is it's fundamentally strong, and any problems you com across will be relatively easy to rectify with a little time and patience 1) Four-cylinder engines: The O- and M16-Series engines have a tendency to leak oil around the distributor (head gaskets or camshaft oil seals) - so check that this is not too bad and that oil levels are correct These engines are critical for cambelts, so ensure that this has been done at the right intervals. 2) Honda V6 engines: These prove

exceptionally reliable, although can develop noisy tappets in later life. This is not serious and can usually be sorted with an adjustment and regular fluid changes to keep those arrarow oilways, clear. Cambebts need replacement every 46,000 miles (Rover recommended 90,000 later in life, but stick to the lower figure for piece of mindl, and it is essential that this is ashered to. With careful stat over \$50,000 miles without the need for a re-build.

3] Gearboxes (four-cylinder cars): The FG-1 box found in the four cylinder versions is particularly sweet to use, but can chew differential bearings. Automatic gearboxes in M Series versions, have proven particularly troublesome, with flexi-plate failures - not catastrophic, but very costly

4) Gearboxes (V6 cars): These are generally sound and the manual PG2 'box is particularly sweet in use. The automatic transmissions are smooth and responsive – selection problems indicate the correct Hondamatic fluid has not been used.

5) Diesel engines: these are rugged and powerful, but head gaskets are a known weakness, so make the usual checks.

6) Brakes: The 800 does not appear to suffer too much in this department and brakes last well on their V6s. On ABS models, make sure the warning tell-tale lights up when the car is switched on, but then goes straight out. If this light stays on, you're looking at replacing the sensors - if it doesn't come on at all, check the dashboard hulb is still there 7) Steering: The steering on the V6 is speed sensitive, and should weigh-up the faster you go. Ensure there are no groans or knocking when turning from lock to lock at rest. Four cylinder versions use an entirely different Positive Centre Feel system, which is also very light – leaky PCF racks are not uncommon, so check for the

8) Electrics: A known 800 weak link: Electric windows and radio faults are more often than not caused by dry joints in fuseboxes. Electric seats are also an issue. Airflow meters are known to fail on the 820i. The 820f requires EU reprogramming after a battery disconnect, so ensure that if you buy one of these cast, the batter is connected and good, and that the car is running sweetly.

9) Rust: The potential enemy of all Mark one 800s is rust. The main areas of attention should be rear wheelanche, leading and trailing edge, surroot garbure, outer sills, and the leading edge of the bonnet. 100 literation and time: The 800's interior looks wonderful, and the seating remains first class to this day. However, the build quality lags behind, so make sure you're not caught out by fragile switchgear (especially on the very earliest card), faded wood and broken door handles (interior and exertion't. The lifting daship problem that affects later cars should not trouble these ont trouble these ont trouble these onts.

The parts situation

Parts for the Rower 800 are still priety plentifield, and despite tales of a shortage of parts at dealers, the older cars will not be affected by the meltdown of MG Rower. There are plenty of specialists, and donor cars are still plentiful in scrap yards. Remember also, that there is a massive carry-over over of parts between the MK1 and MK2 800 - and that was in production until 1998.

Typical prices (For a 1990 827
Vitesse, Best of British Rover):
Clutch kit, £85
Exhaust centre section, £58

front pipe, £89, back box, £48 Brake pads, (front) £26.95, (rear) £19.95 Distributor cap, £16.95 Dampers, £35 front and rear

Specialists

PARTS/SERVICES

Best of British Rover, 0121 526
5506 or
www.sales.bestofbritishrover.

 XPart, 0870 242 4791 or www. xpart.com.

Clubs

Rover Torque, www.rovertorque.
co.uk/
Rover Sport Register, Cliff Evans, 8
Hillary Close, Great Boughton, Chester,
CH3 SDP or www.thers.co.uk

What should I pay? The Rover 800 is in a strange place

at the moment. There is a hardcore of fans out there that appreciates the rarity of the earliest Sterling and Vitesse models, and love the fact that they are quick on the road, have plenty of power and equipment, and offer a soothing drive. Prices seem to

it's almost impossible to set out a definitive guide. One rule of thumb is that the Sterling and Vitesse models are worth more than other V6s, and that the Honda powered models command a healthy premium over the four-cylinder versions, despite not being that much better to drive. For a good Sterling or Vitesse, don't pay over £1200 - and that's the absolute maximum for a minter - £500 will get you a perfectly serviceable example with MoT and plenty of life left in it. Project cars can be had for the price of a pint of beer. The four cylinder cars are much cheaper, but also much more rare. If you can find one in good order, don't be surprised if you pick it up for a song. There's also the 820 16V Turbo a limited production run out special. which featured a turbocharged M16 engine and a Tickford designed bodykit. Prices for these are low at the moment, but are already creeping up as word about their rarity gets

be so up and down at the moment.

In conclusion, the 800 is a car that can still be picked up for an absolute song, but with numbers depleting rapidly, one wonders how long the situation will remain so.

Should I buy one? It depends on what you're looking for.

The Vitesse and Sterling models are powered by that wonderful Honds V6, and that provides them with lusty performance and refined reliability. However, even with this advantage, they lack the charisma and road presence of the Rover SDI – a car still widely available for sensible money if you know where to look. Having said that, the 800 is a very

competent executive car and one with more than a splash of flat — specially inside. Compared with the opposition from Vaushall and Ford, the Rover also has considerably more class. As a dassic, though, it's always going to be harder to justify as there in othing quirky or unique about the 800, and it's styling is just too anodyne to mark it out as a bread turner. If you enjoy Flothies nostalqia, and are

a Brover fan, you'll already know you want one of these – in fact, you probably ahready own one. For the rest, though, we suspect the 800 will be denied classic status for a few years yet (the Mk2 Coupe aside), and by then, these will be few left – leaving plenty of people kicking themselves that they clidn't buy one when they had the chaper.

TRIUMPH TR7/TR8



Engines



The two engine types are very different of course, with the four-cylinder ones having far less to recommend them when compared to the V8s. So, we'll deal with the smaller capacity units first. TR7: Head gaskets problems can occur rather too often, so look for signs of oil and

water mixing. The problems occur because of the alloy head - which can warp or corrode inside - leading to these two vital fluids meeting inadvisably. Keep an eye on the temperature gauge too, as not a lot of air gets in from the front of the car. Overheating can also point to a dodgy head gasket, but could also be just a worn out water pump, and they're not exactly an easy fix, sometimes taking up to six hours to extract and replace in extreme circumstances

As well as the usual worrying noises from deep inside to listen out for, the timing chains can get very rattley as they wear out, but aren't that difficult or expensive to replace, something that will probably have to be done every 25,000 miles or so. TR8: The Rover V8 is well-known as one of the better British engines (even though, technically, it's American), and this standing is well-

justified. They're reliable and long-lived, and can take all manner of abuse without protesting too much. Of course, with such a big engine. cooling is even more important, so look at the needle on the temperature gauge even more closely than you would in a TR7. Aside from noises that shouldn't be there, and scary blue smoke from the exhaust, there really isn't that much you have to worry about with the powerful heart of a TR8...although if the engine sounds tappety, keep in mind it won't just be a question of adjusting the clearances as these are hydraulic on the V8. But parts for these engines are very plentiful - you'll never have trouble getting bits and pieces!

If there are oil leaks, look at the breather for blockages, and if this seems okay, then look at the oil and water just to check that things aren't mixing due to a blown head gasket. Misfires under acceleration can signal a camshaft about to expire, something that will be accompanied by dreadful fuel consumption as well. If you're looking at a TR7 that has been converted to V8 power, try to ascertain how well it has been done, by checking for evidence in the

paperwork of one of the specialist-supplied kits - from a reputable firm such as Rimmer Bros. S&S or Robsport - having been used. You don't want to find out the limitations of a home-engineered job while enjoying your TR7 V8 at

speed.				Parts prices	
Specificatio	n			All prices from Rimmer Bros and Engine service kit, V8 conversion kit.	f include VAT £32.31 £1991.63
Car	Triumph TR7 FHC	Triumph TR7 DHC	Triumph TR8	Full reconditioned TR7 engine,	
Year	1975-1981	1978-1981	1978-1981	exchange,	
Engine size	1998cc OHC 4-cyl	1998cc OHC 4-cyl	3528cc V8	Black hood and frame, exch,	£464.98
BHP/RPM	105bhp@5500rpm	105bhp@5500rpm	155bhp@5000rpm	Bonnet, early type,	£175.37
Top speed	109mph	114mph	120mph	Bonnet, modified later type, Outer sill, original,	£411.25 £82.19
Gearbox: 4-speed	d manual/5-speed manual	/3-speed automatic		Exchange radiator.	£117.44
Consumption	28mpg	28mpg	18mpg	Five-speed manual gearbox,	
	models: Front: Independe c dampers. Rear: Live axle ers			Standard front brake disc, Brake pad kit, standard, TR7 complete sports exhaust	£16.39 £13.51

122 CCW BUYER'S GUIDE

The TR7 and TR8 were radical and controversial departures from the usual TR formula when new.

RICHARD GUNN looks into buying British Leyland's go-faster wedges and the pitfalls that await the unwary

Brakes

Discs up front and drums at the rear are adequate enough and don't usually cause too much trouble unless the car has been standing around a lot and components have started to deteriorate as a result.

Interior

The cabins tend to look a bit worn out quite easily, thanks to their design and the quality of the materials used. However, despite this, they can be quite hard-wearing, all told, and most bits are available if required. One weak point is the heater cortots, which can break quite easily, and putting heater problems right generally involves having to remove the dashboard.

On all cars, but convertibles in particular, check the floorpans. These can rust as a matter of course, but obviously, any corrosion is likely to be worse on an open car which has been caught topless in sudden showers.

Pre-1972 cars don't have a great regulation for electrical integrity, book at the fise bor - if it not has fine fases inside, then you're looking at one of these cars of dishloss spark repute. The faults lie with beloom -which, family, just warsh up to test tak in hand, and if you're looking at one of these cars, just try everyfring electrical, if it all words, then you're pretty lucyfel. If it all words, then you're pretty lucyfel belook lie legisland addressed the problems with later cars - you can tell these easily enough thanks to their having 12 fuses.

Don't forget to check the headlamps pop up as they should. The motors can fail with age, and if they aren't causing trouble, then dirty wiring connections can also strike.



Transmission

The earlier cars, with their four-speed gearboxes and Dolomite back axles, don't have a terrific reputation, with cumbersome shifts and a tendency for the axle to whine as it gets older. When five-speed boxes were introduced, they utilised the unit from a Rover SD1 - far nicer to use, and more relaxed at motorway crusing speeds.

The other option available was a Borg Warner automatic gearbox - which may not be the slickest of self-shifters, but it's reliable enough to cope with both the two-litre and the V8 engines.

Bodywork

This is where it all gets very serious...with bodywork likely to be the biggest cause of perpenditure on any TRUTA. The front of the car seems a logical place to start, with a lot of any likely problems and expositive special place to start, with a lot of any likely problems and expositive special place to start, which is considered to the problems and expositive special por an other special port of the contract flyor commake out spot weds around their region, then it is a good sign, as it triples when conjugately or a high quality peal. If you can't see these, then it ringly to be because filter or platfully has been applied. The windcreen outside it another soary region. There's a black cover there that unfortunately does a great job of concealing rust undermath amount the windcreen volume spriders. Check it thoroughly, as goot here is difficult to put right, and not choose it in the country of comments of the problems of the

The bonnets themselves can suffer thanks to rust in the seams, and if you find some while checking, it will only get worse. It seems to afflict the later bonnets - with a double hump - more than it does the earlier single hump ones. Because both are such big panels, they can be prone to flexing, which can cause the paint to crack and will also show up any repairs from body filler having been used.

Because that bornets nakes out of view of the drive, prainful knocks are quite common on these wedges. Nact on easily set in even where a car has been only slightly detected, and will soon speed. Look at the general alignment of the bornet: although boar in made that these can suffered from some of the worst diritch bear in made to a suffered from some of the worst diritch bear in made to a suffered bear of the suffered paid and suffered that suffered the suffered that the suffered that suffered that suffered the suffered that suffered the suffered that suffered the suffered that suffered that suffered the suffered that suffered the suffered that suffe

Sills, naturally, are important, especially if you're looking at a convertible – if you get somebody to push down on the back of the car on one of these, and you notice body flex more than about an inch or so, then all is not well and the inner sills are past their best. Replacement of this three-part section sint exactly simple. You'll need to remove the front wings and cut into the rear ones. Best perhaps to wall knaw at this point and not not entivolved.

Door bottoms will often show signs of starting to disappear, as will the wheelesthes-all four of them Fel undermath the lips as, then, the outer skin can look fine while the inner one is deteriorating. You can expect the lower new minys to have suffered to some element, thanks to grut being freborm up from the road. Thanks to blocked analysise, their laided file the bott all also a primarily thanks to before the bott also as part we location for next. and it could be anywhere, fanish; for the floor, the saling edge of the bott dis the but president with the points where the form reests the wings, the tensing edge of the bott dish but dry parel, undermath the couldment of the production of the production of the production of the production of the production.

Underneath, the chassis rails are prone to go around their fronts, plan where the front subframe mounts. Not a nite goot, b.Decause it's load-bearing, so somewhat critical. And guess what...similar things happen at the back too where the rear suspension trailing arms mount to the floor. Repair int' that complex, but must be done properly. So you should try to ascertain that these haven't just been plated over.

Don't forget to look at the state of the hood on a convertible, as often, these cars are simply used on sunny days, meaning the soft top doesn't see a lot of use. So when it does get finally used in anger, the material can tear quite easily. Sill, you can easily buy a new one if necessary, and they not difficult to fit.

Suspension

Up at the front, it's MacPherson struts - so no real problems there although the inserts can leak and springs can break. At the back is a tried-and-tested live ade/coil springs/dampers/ trailing arms arrangement, which is rugged enough. So, if you notice handling problems, it's probably little more than bushes wearing out naturally, although worn dampers can also cause a lack of feel on the road, plus the occasional knocking.

HISTORY

1970 Triumph's technical director, Spen King along with Milee Carver of British Leyland's Central Product Planning office, travelled to the Use of British Leyland's Central Product Planning office, travelled to the State S

1971 Harris Mann, director of design at Austin-Morris in Longbridge, pens a very different interpretation of a Tis sportscar theme. Featuring a wedge-shaped profile echoing then current trends in automotive styling around the world. In fact, the look of the 'Bullet', with a very low bonnet line and upright rear window, deliberately makes it appear mid-enained.

1974 The first TR7s are constructed at Speke on Merseyside during the summer, with four-cylinder engines donated by the Dolomite 1850 range, albeit enlarged to 1996xc to give 105bhp for 92bhp if strangled by detoxing equipment for the USAI, Four-speed Marina derived oseatboxes are the chosen transmission.

1975 January sees the launch of the TRZ, coming as quite a shock to the very traditional TR brigade broady up on a diet of conventionally shaped, quite basic, macho machines. Rumour has it that Giorgio Giuglaro exclaims "I don't believe it, they've done it on the other side too" when he fist walks around a TRZ....which but particularly fair from somebody who designed more than a few wedge-shaped things himself. The first cars are primarily for sale in America.

1976 European-spec cars become available, with an automatic gearbox and a five-speed manual as options, although British Leyland soon runs out of the latter because such a transmission has been standardised on US cars, meaning that this extra is promptly withdrawn and not re-instated until 1978!

1977 Sir Michael Edwarde becomes the new Chairman of British Leghand on the same of yout the Epople Enclory species strike and paralyses the TRP production line. Ultimately, as the strike lingers on, the decision is taken to cobe down Specie contelled yard transfer production to Carley in Covertry, Amid all this rapheren though, some cars have been appearing, including limited numbers of the perproduction Sprint model, using the Tevalve engine from the Dolomies Sprint, are also made before strikes bring proceedings to a half TeV losers of Sprinted Endos transcriptions.

1978 With manufacture now shifted to Canley, the TR8 finally goes into proper production, albeit for the USA only. And, as it has now become clear that open-top cars aren't likely to be banned over in America, a convertible version of the TR7 is also launched.

1979 The roof gets sliced off the TR8 to make it also available as a drop top.

1980 The UK finally gets the chance to try out the convertible TR7...and is actually cheaper than the tin top version, bizarrely.

1981 Having never made a profit and been beleaguered by quality and reliability problems throughout its life, the TR7 and TR8 range – and indeed the whole TR line – comes to an end. 115,000 wedges have been built, which actually makes the breed the best-selling TR of em all.

Contacts

Clubs

- Club Triumph. Tel: 01425 274193 or www.club.triumph.org.uk
- TR Drivers Club. Tel: 01452 614234 or www.trdrivers.com
- TR Register, Oxon. Tel: 01235 818866 or www.tr-register.co.uk ■ Triumph Sports Six. Tel: 01858 431936 or www.tsc..org.uk

Specialists – just a few of the great many

■ S&S Preparations, Lancs. Tel: 01706 874874 or www.ss-preparations.

■ Rimmer Bros, Lincs. Tel: 01522 568000 or www.rimmerbros.co.uk

- Quiller Triumph, London. Tel: 020 8854 4777 or www.guillertriumph.co.uk
 - Moss Europe, nationwide. Tel: 0800 281182 or www.moss-europe.co.uk
 - Wins International Ltd, Surrey. Tel: 01342 836060
 - Robsport, Herts. Tel; 01763 848673 or www.robsport.co.uk
 - TRGB Ltd, Cambs. Tel: 0870 757 2441 or www.trgb.co.uk ■ Clive Manvers. Suffolk. Tel: 01359 244417 or
 - www.manvers-triumph.com

 TR Shop, London, Tel: 020 8995 6621 or www.trshop.co.uk
 - TR Shop, London. Tel: U20 8995 6621 or www.trshop.co.uk
 TR Bitz, Cheshire. Tel: 01925 861861 or www.trbitz.com
 - TR Workshops, Gloucester. Tel: 01285 659900
 - TR Enterprises, Notts. Tel: 01623 793807 or www.trenterprises.com

Market Trends

It's the VB cars that command the big money, ...and bear in mind, there are now far more of those in the UK than there ever were when the TR8 was actually current. Some are genuine cars which have come back from the USA, others are comersions of forwirer TR7s, but if the job has been done well, they seem to be easily accepted as almost the real thing by enthusiasts, with prices marked up accordingly.

So values for the four-pot cars remain in the doldrums somewhat, while everybody continues to go all gooey-eyed over the examples with an extra bank of cylinders. Simply a grand can see you in a reasonable example of a FHC TR7, but the same kind of car with a Rover V8 lurking under its bonnet would cost at least £5000 more!

Our prediction is that TR8 prices will continue to rise – there's a new cool unrounding these can st the moment, thanks to the ongoing Seventies revival and the fact that, with V8 power, these cars are actually damn fine classics. Don't expect the same of the TR7 though. They'll always be the cheap option of the TR series, although that does make them perfect for bargain hunters.

Verdic

Whichever model you go for, it's more important to look for a car that is as nust-free as possible. Corrosion is the single biggest problem with these sporting wedges, so do your homework carefully, and make sure you end up with a solid one.

Our further recommendation is obvious really; choose a TRS (or a Ve-Converted TR). Joy can can find one They've a completely different experience to the four-cylinder cars, and offer the performance and charisma that the TRJ should have had right from the start. The fourcylinder cars are fine if you've new to the world of sportscars, or simply want a cheap but distinctive classic remaleup carry or with in. But true entertainment comes from the models with eight cylinders ordered in a Vernangement It does make a world of difference.

Insurance quote

For a £3000 1980 Triumph TR7 convertible, no modifications, based in

- Peterborough

 Fully comp, £100 excess: £421.37 for a 29-year-old, two year?s NCB, clean
- licence, 10,000 miles, only car, kept on driveway, club member

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TRIUMPH GT6



Service history is a real boon. The engines are very good' says Cary Bates,
"They are capable of racking up a high-mileage with base if they are well
looked after." The engine itself is a free-reving delight thanks to the shortstroke design - compromised sightly on the bigger File engine. Of course,
you can upgrade to the larger TR engine if you somehow find a GTG lacking
in crust. but if its ma eave chaose and the transmission maw then not be up to the lob

Of course, the condition of the engine should not be taken for granted, just because they can last so long. Check for rattles or blue smoke when accelerating and on the overrun. All the mechanical units on the GT6 are capable of losing a little oil, but it shouldn't be forming puddles on the ground.

Early cars often leak oil from the pushood tubes but Mis2 and later cars have a revised cylinder head within solves the problem. In fact, the Mis2 uses the head from the TRS. It is always worth checking the end float on the crank - you can do this by levering the crank pulley using a pyr bar of large screwdiver. More than the hous is considered poor and if you get an actual clonk, urgent attention is required. The thrust washers can be changed with the engine in stubut only kiusz and it isn't much kin.

Specification

Car	GT6 Mk1	GT6 Mk2	GT6 Mk3		
Year	1966-1968	1968-1970	1970-1973		
Engine size	All models: 1998cc 4-cyl OHV				
BHP/RPM	95bhp@5000rpm	104bhp@5300rpm	98bhp@5300rpm		
Top speed	108mph	107mph	104mph		
0-60mph	12secs	10secs	10.1secs		
Gearbox	All models: 4-speed manual (overdrive optional)				
Consumption	All models: 24-30mpg				

Suspension Mk1: Front: Independent by double-wishbones, coil springs, telescopic shock

absorbers. Rear: Independent by transverse leaf springs, swing arms. Mk2-Front: Independent by double-wishbones, coil springs, telescopic shock absorbers. Rear: double wishbones, transverse leaf springs, telescopic shock absorbers. Mk3: Front: Independent by double-wishbone, coil springs, telescopic shock absorbers. Rear: As Mk2 until 1973, then transverse leaf springs, swing arms with Swing-springs.

Courtesy of Rimmer Brothers. Prices include VAT

Reconditioned chassis frame £810.00 (£70.50 surcharge) Chassis to body mounting kit £23.44 Bonnet assembly £790.00 Front wing (Mk1) £76.38 Reconditioned door shell floorpan repair panel (per side) £109.85

(per side) £109.85

Reconditioned Engine
(unleaded) £1430.00
Clutch kit £88.50
Clutch master cylinder £63.50
Water pump (Mk3) £38.74
Exhaust – full system in

exhaust – full system in stainless steel £173.31 Reconditioned overdrive unit £344.46

(£176.25 surcharge)
Propshaft (Overdrive, new) £185.00
Driveshaft (long) £70.99

Rear hub bearing kit £22.98
Front brake disc £13.95ea
Rear spring (for Mk1 inc swing-spring
conversion) £193.88

Rear shock absorber £17.50ea Headlamp (sealed beam) £7.50ea Halogen headlamp

upgrade kit (pair) £46.94
Reconditioned starter motor £32.95
(£23.50 surcharge)

Take a Spitfire, give it a sleek fastback body, lob a Vitesse six-cylinder engine up front and bingo! You have a very swift, gorgeous-sounding sports coupé that deserves more respect than it actually receives. IAN SEABROOK takes a close look at this British pocket-rocket with export opinion from Richard Sharn at Rimmer Brothers and Gary Bates at TRGR

Electrics

You may encounter slightly iffy electrics, as can be the case with Lucas equipped cars of this vintage but generally, the electrical system tends to be reliable. Some switchgear is proving difficult to locate now but it is easy enough to find a similar replacement albeit this may be at the cost of originality if you are a real purist.

The Mk1 had a dynamo, later cars moved to AC. Conversion kits are available for DC GTGs if you want to upgrade – a wise move if you are likely to be driving at night or during the winter months. "We sell a conversion kit," reports Richard Sharp at Rimmer Brothers. "But some parts are getting hard to get hold of now."

Interior

Water ingress can be an issue so check all the carpets to ensure that they are dry, Upholestey trends to be hard wearing but with even the youngest car now well over 30 years old, some wear is to be expected for threat any damage as a possible haggling point. A Webasto roof was an option on later cars, and may have been retro-fitted to estific cars. Again, this could be a source of water leads if it is ill fitting. Early cars are rather poor in terms of water leads if it is ill fitting. Early cars are rather poor in terms of comfortable during summer mombs.



Gearbox

"No Timmph gearbox is particularly good" advises Gary Stees. "It is an archia design." The first thing to deck is for layshaft bearing grundle in first, second and thind gears. If it goes quieter in top, it can be also a second and thind gears if it goes quieter in top, if the checking in each gas, especially when coming back down through the gears. Cars can jump out of gear so watch out for this on the test drive. Overdrive was an option on all but the earliest cars and is a desirable one, making long distance driving much more relating; it should work on the tops to gear so spain, make

The Mk2 has very tall gearing when equipped with overdrive, which helps to explain how it is only just the fastest car of the bunch, despite the Mk3 having less power due to emission restrictions.

Bodywork

There aren't many places that a GT6 doesn't rot so you need to check the car with care. First off, have a look around the entire vehicle. Does it look 'right?' Are panel gaps consistent, or are there any iffy-looking bulges hinting at bodged repairs?

You really need to get the car in the air, as the low nature of the Cf6 makes crawling underneath a tricky prospect. Many think that the sills are not that important due to the separate chassis, but it is of a backbone design meaning that the sills are actually structural. While you are underneath, check the floors and the rear heel board. The suspension tie-law attackes to a reinforced panel here and it is a common rot spot," says Gary Ratex at TRGE.

Above ground level, check the bonnet for rot on the lower front corners and wheelarches. "All the wheelarches are double skinned," explains Gary, "Moisture gets trapped between the skins and rust is very often found here." You also need to check the front corner valances, below the front bumper.

Moving further back, check the front edge of the roof. "The windscreen pillars also need to be checked," recommends Gary, "It is also worth checking the A-posts themselves as they can rot in extreme cases." Door bottoms can go, for the usual reason of blocked drain holes. The tailgate can suffer corrosion on the bottom edge but at least replacement is easy enough.

Brakes

The GT6 has a disc/drum set up but only late Mk3s had a brake seno – a remote lem. However, the brakes are plenty powerful and the car should pull up swiftly and in a straight line. Pedal pressures may be more than modern motists are used to but once you get used to the need to press harder, you should have no issues. Should you wish to have more braking power, upgraded disc/pads are available off the shelf.

Transmission

The differential is being asked a lot by the torquey six-pot tump somake sure it in Thanking any excessive noise or clonks when taking up the drive. MA2 and MA3s up to 1973 have Rotoflex joints on the drive-lathst. They stopped making them about five years aga? explains Carp. Modern exproductions just don't cacking and be aware that replacement is tricky. Not considered the same that replacement is tricky, Not something you want to tackle straight away on your new purchase.

Suspension

Mk1: Front: Independent by double-wishbones, coil springs, telescopic shock absorbers. Rear: Independent by transverse leaf springs, swing arms.

Mk2: Front: Independent by double-wishbones, coil springs, telescopic shock absorbers. Rear: double wishbones, transverse leaf springs, telescopic shock absorbers.

transverse leaf springs, telescopic shock absorbers.

Mk3: Front: Independent by double-wishbone, coll springs,
telescopic shock absorbers. Rear: As Mk2 until 1973, then
transverse leaf springs, swing arms with 'swing-springs'

Suspension and steering

Accurate rack and pinion steering blesses the CIT6 with the same incredible manoeuvring ability of the humble Herald. Front suspension is by double wishbonns – a very good design copied by Lotus among others. There are trunnions however, so make sure they are fire of play and well-greased. Polybushes are a wise upgrade for those who want to tighten things up a little and a coil-lover-shock conversions are also available.

At the read chings were not that advanced - to start with at least. The Teverlad back or and instituted to Misk is really being pushed beyone the least back or and instituted to the start of the start of the start of the bear and it allows consententation (yet also a hump back their got too quickly, Apparently, a press short of a GID in such an airborne pore had a stafer require defer on sale; the Bell grap the Brootleers are go with this -a very pophisticated and complicated set up but very effective. The transverse led grings now effectively became the upper wishbook - However, as part of a cost cutting measure, from 1973, the Most evented to the implies set up in the start of Most evented to the integer set up ability on with a saving-paring to reduce whether the set of the start of Most evented to the integer set up ability on with a saving-paring to reduce whether the set of Most evented to the integer set up ability on with a saving-paring to reduce whether the set of which were the set that the set of which were the set the setting at the set of the setting at the setting at the setting at the setting at the setting and the setting setting that the oneets operations whether the setting and the setting the setting and the setting the set

HISTORY

1959 The Herald is launched, eschewing the new trend for monocoque construction. The simple chassis makes this an ideal car on which to base a new sportscar and this proposal receives approval as early as 1957 – although it took five years and a Leyland takeover to make the car a reality.

1962. The new sportscut the Spitish is launched Featuring the Head chasks allabel whost the contigenges and numbing gear. Triumph is seally able to craise a lovestile little readster. Micheletti is found to the seal of the

1963 Triumph asks Michelotti to fashion a fastback Spitfire called the GT. The result is attractive but the extra weight badly affects performance and the concept is rejected.

1964 Someone puts two and two together and a Vitesse 1600 engine is fitted to the GT. The car only has 77bh ps operformance isn't as tyres-interdeding as might have been expected but luckly, the two-litre engine from the 2000 saloon was about to be installed in the Vitesse and would norwe ideal for the GT6.

1966 The GT6 is launched – to Spitfire Mk2 specification which means the same tricky handling on the limit. The car soon proves popular, especially in America.

1968 The Mk2 hits the showrooms with the same Rotoflex and double-wishbone rear end as the Vitesse Mk2. Styling changes are as per the Spittire Mk3 and include a higher front bumper. The GT6 also receives many louvres for the bonnet in an attempt to reign in underbonnet temperatures.

1970 The Mk3 is the final flowering of the GT6 and receives the same sawn-off rear end as the Spitfire Mk4.

1973 The Rotoflex rear suspension is dropped and the 'swing-spring' set-up from the Spitfire replaces it, demonstrating a vast improvement in handling over the early cars and saving BL a few pennies to boot. It wasn't enough to save sales however and production ends in November.

Contacts

Clubs ■ Triumph Sports Six Club. Tel: 01858 434424 or

- www.tssc2.org.uk

 Club Triumph, Tel: 01784 465351 or
- www.club.triumph.org.uk
 Specialists
- Rimmer Brothers, Lincs. Tel: 01522 567600 or www.rimmerbros.co.uk
- TRGB, Cambs. Tel: 01487 842168 or www.trgb.co.uk ■ James Paddock. Cheshire. Tel: 01244 399899 or
- www.jamespaddock.co.uk
 Triumph Auto Classique, Wilts. Tel: 01793 853033

Jigsaw Racing, Northants. Tel: 01536 763799 or www.jigsawracingservices.co.uk

How much?

Not very much at all really. When you look at what you are getting, the \$5500 to pen for minters seems very reasonable indeed. Show winning glamour may cost a little more but you'll be pleased to learn that road-ging; tidy cars can be had for as little as \$2500, which is frankly ridiculous. Where else are you going to get sixcylinders, Iselko loss and a hint of practicality in such a born fide classic? Suddenly, MGS GTs seem rather pricey... Milk3 tent of be more fancied and as such, are a little pricier.

Purists prefer the MAZ with the earlier rear end treatment. For bargain-seekers, a MAI is the way to go. Overdrive can push the price of a car up – by quite a degree. If you are doing a lot of driving, it's worth paying extra for a car that has it but if you will only be using the car as a weekend tool, then the saving may prove

Incidentally, you may spot GT6 convertibles for sale but these were never factory produced – doesn't take an expert to see that making a Spiffier more fiery is a fairly simple task, but check that the work has been done well. Prices can be higher for these nonoriginal cars, as us Brits do like a soft-top.

Verdict

Okay, let's not get carried away here. The GTG is a little cramped, filled with good old be Lucas electrics, and later ones are perhaps a little tailned by the hand of BL. The engine may be refined but build quality falls a little way short of this. As Richard Sharp at Rimmer Brothers explains, "Those of you who believe that a classic Triumph like the GTG will give you the same soft, comfortable, easy ride as a modern asloon or sportscar, will be in for a shock. First time buyers are recommended to try if first. It can be a spine-jaming ride".

But with the unpleasanties out of the way, It seems very clear that the GIO is an outerwised little cracket. The engine note will make you smile every time you hear I and performance is strongneously to be very entertaining. The handling may come in for money to be proposed to the company of the company of the company and it beats recenting to an ancient live ask of edigin like a certain competitio. Only the Mits a faillificant with may not if susses anyword soil you are enally concerned, buy abter one. Richard adds, "We have all been spoil the modern care, but you thin, you will be able to open the bornet and work on the engine rather than jost took at the company of th

Whether to choose the NIk2 or the Mik3 is very much a matter of taste. Some like the earlier rear end treatment wherea others prefer the Mik3 with a tail reminiscent of the Stag. Whatever you choose, you'll get a little delight – the small car with a big-car soundtrack.

Insurance quote

- For a 1970 Triumph GT6, valued at £3000, based in Peterborough

 Fully comp. £284.40 for a 29-year-old, two years' NCB, 10,000 mile limit, only car, kept on driveway, club member
- Fully comp. £105.00 for a 50-year-old, full NCB, 3000 mile limit, second car, garaged, club member

TRIUMPH STAG



Engines

Oooh, just listen to that burble. You could make an album of the gorgeous sound emanating from the twin-pipe exhaust, However, as lovely as the noise is, don't let it distract you from checking the engine carefully. After all, it is the cause of so many Stagrelated horror stories.

Timing chains will rattle when worn and will be worse when cold - check the engine bay first when looking at a car and make sure that the engine is not already warm. It's always best to see how a potential purchase starts from cold anyway. Especially this time of year. Especially when replacing the battery involves removing the power steering pump...

If the timing chain rattles even when the engine is warm, it needs replacing as soon as possible. Failure will cause rather unpleasant

meetings between engine components. In many ways, Winter is a good time of year to buy a classic as you'll easily be able to check things like heater output and whether the thermostat is working as it should. Take a good, long test drive and make sure the engine isn't trying to overheat. If coolant has not been replaced regularly or with the correct mixture, the alloy parts of the engine will corrode and clog up the waterways. This can cause head gasket to blow so do the usual 'oil in water' checks as well as checking the state of the dipstick. If the water pump is leaking, you'll see water between the two banks of the yee. If the carb breather pipes are leaking, the engine will be almost impossible to tune. With the engine idling, remove the oil filler cap. If

the engine slows or stalls, all is well, If it doesn't, the pipes require replacement, When you raise the revs to 3500rpm, check for a harsh rumbling which might suggest that the main bearings are past their best.

Engines tend to last between 80,000 and 120,000 miles between rebuilds depending on how well they have been maintained. If an oil pressure gauge is fitted, look for 40-50psi at

cruising speeds and 20-25psi at idle. Make sure that the oil pressure warning light comes on when you turn the ignition on - and that it doesn't remain lit with the engine running Electronic ignition is a good idea and is commonly fitted. The twin points set up of all but early cars can be fiddly to get right.

Parts prices

rs and do not include VAT. F ers currently have a sale on Stac ts until December 29, 2007.

ı	Service kit (twin points)	£55.00
ı	Engine cooling fans, Mk2	£49.95
ı	Polyurethane rear subframe l	bushes, each
ı		£37.50
ı	Clutch kit, complete	£100.00
ı	Radiator, 5-core upgrade, nei	w, exchange

lutch kit, complete	£1
adiator, 5-core upgrade, new,	exch
	£2
ater pump, 12-vane	£1

Water pump, 12-vane	£154
Front wing	£170
Wheelarch repair panel, front	
Door bottom repair section	£28
Front strut overhaul kit, pair	£199

Specification

Car	Stag manual	Stag auto
Year	1970-1977	1970-1977
Engine	2997cc V8 ohv	2997cc V8 ohv
BHP/RPM	145@5500	145@5500
Top Speed	117mph	112mph
Gearbox	4-speed manual plus overdrive	3-speed automatic
Consumption	20-26mpg	20-26mpg
Suspension	Suspension All models: Front, independent by MacPherson struts, anti-roll	
	Rear, Independent, coil springs and telescopic shock absorbers	

Unloved when new, the Stag is now one of the most popular classic cars. IAN SEABROOK tells you what to look for if you're interested in a real New Year treat

Brakes

As with any low mileage vehicle, calipers can seize while a peedal which progressively tries to meet the carpet suggests a master cylinder fault. If the servo is on the blink, peedal pressure will get steadily heavier while basking efficiency suffers. There is a five-way brake pipe junction on the nearside engine bulkhead. This can leak and the fluid is not particularly kind to metalwork.

Interior and electrics

There are worse places to be than in a Stag and those admittedly small rear seats can be very useful indeed, especially if you have younger family members. The vinyl's seats can sag but replacement foam sections are now available to breath new

Iffe into your seats.

The floors should be checked for dampness and rust. Is the carpet discoloured or sodden? It may him at trouble. Make sure that the hood fits snugly—at least it is unlikely to be stashed away this time of year although if a hardtop is fitted, you really need to make sure that you still get an opportunity to check the state of the hood. Replacements are not cheap.

Switchgear can play up – but that's Seventies British stuff for you. Replacements are at least easily found. Do check the wipers – the wheelbows can seize which will make the movement laboured. The driver's wiper arm features a beautiful pantograph



Transmission

Typical manual faults include the usual worn synchromesh or excessive noise suggesting that it's rebuild time. Any problems with the overdrive are usually electrical faults.

The automatic unit is the good old Borg Warner and they rarely give trouble being not particularly stressed in this application. Do check for smooth changes and explore the fun of kickdown to make sure that it actually does.

Noisy differentials suggest replacement/refurbishment is required
– it's important to keep an eye on the oil level. Leaks are not exactly
rare. The driveshafts should be regularly greased to keep them
healthy.

Bodywork

the entire wing

Stags are actually pretty hardy but the youngest example is still over 30 years old now and, like any other 30 year old, time can take its toll. All east panels and repair sections are plentiful. That said, bodywork repairs are likely to cost much more than mechanical repairs so it is arguably the most important thing to check.

Starting at the front, the valance below the bumper can suffer, as can the headlamp panel and the metalwook between the bonnet and the very front of the car. There is a crossmember under the adatos, behind the valance, and this can suffer too. Wheelanch repair sections are available which tells you that this is a key area to check. The seam between the front wing and front panel is also worth a look as this'll tell you whether you'll get away with the wheelarch repair section or end up changing get away with the wheelarch repair section or end up changing

The windscreen pillar and the top of the A-post also need to be checked. It's a common bodge post o don't assume that is well under the paint. A magnet is your friend. Hardtops can suffer along their from and rear edges, Rot is also commonly found at the base of the hood compartment. The rear shock-absorber mounts are located nees on outs is not that desirable. The rear spring mounts are also susceptible and an equally understable not you make the comparison of the properties of the properties

As with any monocoque, sills are vital for the strength of the car so check with care. Examples fitted with sill covers are a pain to check.—The best you may be able to do is to check the rearmost edge where it meets the wheelach as well as where it meets the filoopsan. Another common rot area is the base of the Apost and the surrounding floor and outrigapers. The main chassis rails are also worthy of inspection as are the rear footwells.

Door bottoms can go but again, repair sections are available. Blocked drain holes are the usual culprit here, Again, it's a cheap bodge spot so check with care. The rear edge of the bootlid also suffers, as do the rear wings where they meet the sill as well as the usual wheeleach woes. The boot floor istelf is prome, sometimes being attacked from above and below, so check for dampness.

Suspension and steering

Start with a look at the tyres. On low-mileage cars, you want to be sure that the tyres have not degraded with time but on any car, check that they are of good quality, that types match at least per axle and that there is no unusual wear.

Iffy wear and knocking could suggest that the suspension bushes are in need of replacement. You might find woolly handling also. If you can, jack the car up and check for play at all four

corners. The wishbone bushes, anti-roll bar links, tracking arms and steering rack are all potential play points at the front, while trailing arm bushes and subframe mounts could cause looseness at the other end. Wheel bearings should also be listened out for.

With the car on the ground, check the rear wheels for negative camber which may hint at loose noseplate bolts on the differential. The cradle this is held in can rust, so getting under the car is useful.

All cars have power steering but if it is overly assisted, a spool valve may have failed in the rack which means replacement of the entire unit. Check for fluid leaks, especially if the assistance is lacking or intermittent.

Contacts

- Clubs

 Stag Owners Club, 01379 677735 or www.stag.org.uk
- Triumph Stag Register, 01202 761051 or www.tristagreg.org
- Club Triumph, 01425 274193 or www.club.triumph.org.uk
 Triumph Sports Six Club (welcomes all Triumphs).

Specialists

Rimmer Brothers, parts, Lincs, 01522 568000 or

01858 434424 or www.tscc.org.uk

www.rimmerbros.co.uk

■ Cherished Classics, sales and servicing, 0116 276 2121 or

www.cherishedclassics.co.uk

HISTORY

1965 The relationship between Triumph and Italian designer Giovanni Milchelotti goes from strength to strength, with the Herald and 2000 saloon to the ori his designs. Milchelotti asks for a 2000 saloon to build a motor show special, and Harry Webster, Triumph's MD, spots the creation on a trip to Italy. The new car is a full soft top with sliding headlann covers and no roll-bast.

1966 Michelotti loses his show car as Triumph look to build it as a production model. The project is given the 'Stag' title – a name which lives on with the car once launched.

1967. A prototype is constructed with the 2 little stealpit is engine installed. It looks the part but performance hewes steams cold. In parallel to this, work has been ongoing for a new four-plinder engine —also to be used by Sash. It has been edispend with the possibility of using it as a base for a V8 and so it is this new unit which is chosen to power the new larghest bases. The first increation in 2.5 lense but this lacks love down grunt. Hence the move to 3 littles incidentally, while lacks so we down grunt. Hence the move to 3 littles incidentally, while lacks so we down grunt. Hence the move to 3 littles incidentally, while lacks so we have the some state of the source of lacks and the growing lack to produce enough units to power the Sas and the growing list of other applications. Triumph engineers state that the rival Rover unit will not fit anyway—which is not enterly accurate.

1969 The Mk2 2000/2500 range is launched – previewing the Stag snout. Obviously it looked so good on the Michelotti show design that he decided to employ it on the revised saloons also!

1970 The Stag is launched at the Earl's Court Motor Show and creates quite a stir. Here is Triumph aiming to take on glants such as Mercedes-Benz in the Grand Tourer stakes. It has a chunky roll-bar which gives essential strength to the structure as well as crash protection not offered by rivals.

1972 Two 4w3 Stags are built by GON in an attempt to get Triumph in on the 4w4 act but BL isn't interested perhaps wisely although it could have been an interesting forerunner to the Aud Quatro. The Stag is starting to look lame however. Rushed engine development and lockadistical build quality have already started to taxol and lockadistical build quality have already started to taxol reputation of the new car. Overheating woes cause a redesign of the cooling system.

1973 The Mk2 Stag is launched – with little in the way of obvious changes. Clues are the black sills and rear panel plus a small coachline along the sides. Mechanical changes include the fitting of Laycock overdrive on manual Stags. Engine troubles are still not entirely overcome however.

1974 Stag production is scaled back as the effects of the fuel crisis begin to be felt. It's another nail in the coffin for the Stag.

1975 Aluminium sill covers are fitted and the tail panel reverts to body colour. Five-spoke alloys and tinted glass are not enough to halt the sales slide.

1997 With BL in crisis, the Stag is finally dropped – as are the aged Triumph saloons. Interestingly, there were plans to install the Stag engine in the saloons but that would have created a real threat to the Rower P6B – an in-house competitor. Only 26,000 Stags have been built – not the 12,000 a year that management had hoped for.

- James Paddock Ltd, parts, Cheshire, 01244 399899 or www.jamespaddock.co.uk
- Spring Grange Classics, sales, servicing and parts, Leics, 0116 259 5464 or www.springgrangeclassics.co.uk
- Superflex, polyurethane bushes, 07000 200025.
- www.superflex.co.uk

 Wrightons, body repairs, Worcs, 01527 585 010 or
- www.wrightons-garage.co.uk

 Robsport International, sales, servicing and parts, Herts 01763
- 262263 or www.robsport.co.uk

 E J Ward, sales, servicing and parts, Leics, 0116 279 9060

How much?

Three years ago, we reported how prices rarely went over £10,000 for the very best examples. How things have changed in that short timel £15,000 is now by no means unusual for the very best examples on a dealer's forecourt. For the car that at first appeared to be little more than a hopeless failure, that's outle incredible.

Of course, as the years have passed, the reputation worries have become ever-more irrelevant as cooling system upgrades and regular oil changes and timing gear replacement have blessed the Stag with the reliability it crawed but was so cruelly denied when new. For some time now, the classic car world has been waking up to just what is on offer here – from the musical V8 to the practical seating, crudinal ability and stylich looks.

Don't panic just yet though. While prices for the very best may be heading ever skyward, those for rougher examples have not gone quite so stratospheric. Examples equipped with either the Tinumph six-cylinder or Rover V8 engines are still not fancied by purists and are referefore much cheaper – often struggling to beat £3000, so if you aren't an originality freak, it: could be a cheap way into Stag motoring, Just don't open the bonnet at show.

It is still possible to get a good example for less than £10,000, but mark our words that these halcyon days will not be around forevee. Good, original examples can be had from £500 upwards if you don't mind doing a little work, while rough examples will fetch only one or two thousand. If you can weld, it could be an ideal project as parts upport is excelled.

Verdict

The story of the Stag is tinged with trapedy but ignoring the horrors of the Bit, and it remains a very capable and useable classic with a soundtrack that is diamed near unbeatable. Performance is not para-weitingly fast but that sire in what this car is about. It's about crusting along in effortless style and for that reason, the automatic option is the transmission of choice. Just select D and off It's comfortable, classy and while you have to accept that these

cars require a little feetling to keep them at the top of their game, they have much more character than the equivalent Mercedes-Benz SL – if not quite the glamour of the Pagoda predecessor. With excellent support – both from the many clubs and

With excellent support – both from the many clubs and speciallists out there – you won't have any headaches trying to keep the thing on the road. As investments go and with prices still on the climb, there's a lot to recommend a Stag.

Insurance auote

- Based on a 1972 Triumph Stag valued at £8000
 Fully comp, 29-year old, two-years NCB, parked on drive, unlimited
- mileage. If a member of the TSSC £154.80 (£50 excess), if a member of any other Triumph club £168.43 (£50 excess) = Fully comp. Soyear old, full Nog, granged, 3000 mile limit, second cat. If a member of any Triumph club £104.40 (£100 excess)

 Cover includes 24hr Breakdown Recovery (UK and Europe) and Motor Legal Expenses.

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TRIUMPH TR5/6





Engines



WHILE the 2498cc six-cylinder engines are generally robust, wear can set in thanks to the positioning of the oil filter, which doesn't always allow enough oil to circulate initially. Look to see if the owner has upgraded to a spin-off filter. Many will have done, and it stops this happening. Crankshaft end float is

something these units can be afflicted by. It can be checked by having somebody repeatedly depress the clutch when the car is switched off while you try to push the crankshaft pulley/fan backwards. There should be a little bit of forward movement from it, but if there's quite a bit, it points to a thrust washer possibly about to drop out. This will lead not just to the crank destroying itself, but also what's around it as well. Not good, not good at all. If oil pressure at 3000rpm when warm reads just about 10psi - or if it fluctuates a lot -then the crank is worn. Look for 75 to 80psi in a healthy engine at this figure (or around 50 psi at 2500rpm). A warm engine should also be relatively quiet - expect some noise, but obtrusive tappet sound shouldn't be part of it.

If a new engine has been fitted, then do check that it's a proper TR one, not one that has come out of a saloon. They will fit easily enough, and are naturally cheaper to buy, but they don't have the same crank or camshaft, and so don't offer the same level of performance.

Chassis

ILIST as the hodywork can rust, so can the chassis. One prime spot is where the trailing arms mount. The arms themselves may be alloy, but tinworm sets in at the point where they mate up to the chassis. Repair means taking the body off - but it is something you'll have to do to get the car through an MoT and make it safe to drive. The chassis rails are nearby and can also develop holes, something else you don't really want either. A rusty floorpan can also spread its disease through to the chassis.

The differential mounting can suffer from stress cracks. If it's not obvious from underneath, than all might become more obvious during a test drive. A clonking when the clutch is released is an indicator of this, but could also simply be worn driveshafts or universal joints, which isn't such an involved job to put right

You can check for possible accident damage these are sportscars after all - by looking at the chassis rails behind the front wishbones, at the point where the chassis starts to bulge outwards. Any creases here are bad news.

Something else you shoull look for is 'hogging'. A chassis that has been badly repaired in the past can project from beneath the rear valance - and putting it right again requires an expert.

Specification			
Car	TRIUMPH TR5 PI	TRIUMPH TR250	TRIUMPH TR6
Year	1967-1968	1967-1968	1968-1976
BHP/RPM	150bhp@5500rpm	104bhp@4500rpm	150bhp (124 from '73)@5000rpm
Top speed	121mph	107mph	121mph
0-60mph	8.8secs	10.6secs	8.2secs
Consumption	20mpg	22mpg	20mpg
Engine size	gine size All models: 2498cc six-cylinder OHV		
Gearbox	All models: 4-speed manual plus overdrive		
Suspension	 Front: Independent, by unequal length double wishbones, with coil springs and telescopic dampers. Rear: Independent, by semi-trailing arms, coil springs, lever arm dampers. 		

Parts prices				
Prices from Rimmer Bros, and include VAT				
Fuel Metering Unit	258.44			
Clutch Kit, Bosch and Beck	£116.33			
Hood, black, original spec	£193.88			
Carpet set	£135.13			
Top ball joint				
Brake disc	£12.93			
Brake pad set, to 1972	£11.69			
Prices from Moss, and include VAT				
Front wing, TRS	£513.42			
Front wing, TR6	£225.48			
Bonnet, TR6	£372.60			
Exhaust, stainless steel, complete	£189.95			

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The TR5 and Teutonically-revamped TR6 were the final incarnations of the traditional Triumph sportscars - albeit with six cylinders instead of four. **RICHARD GUNN** looks at buying one of the great British bruisers.

Gearbox

SOMEWHAT agricultural they may be with their heavy clutches, but the transmissions on these cars should be fairly quiet in operation. If they're not, suspect a worn laysharf. Coll leaks aren't exactly unknown from the gearbones and the overdrives, and if the level has dropped too low, then you can expect wear to you have been assumed to the source of the level of the fluid overdrive engages is a good signal of the level of the fluid overdrive engages is a good signal of the level of the fluid overdrive engages is a good signal of the level of the fluid overdrive engages.

Synchromesh disappears with age as it does on most classics, with second gear likely to suffer demise first of all. Another possibility with an ageing 'box is that the stick can pop out on the overrun. Look for this all the gears to see if this is the case.

And now onto hissing, if there is this noise when the car is in neutral and the clutch is pushed down, this is likely to be a worn release bearing. But a hissing in first gear when moving slowly points to worn layshaft bearings. Replacement means taking out the gearbox.

Interior

Buy a car with the best interior you can find, bearing in mind that wooden dashboards can be expensive to replace. However, if the rest of the car is up to scratch, then don't get too worried about a scruffy cockpit, as practically everything you'll ever want or need is available new or secondhand. However, pay dose attention to the hood, as one of these with tears in it will be costly to replace. And if you find a car with the optional hard top, then go for it. These are very sought-after.



Suspension

ASIDE from the usual balljoints and trunnion wear, the front suspension is usually trustworthy enough. As is the rear as well, although special tools are needed to disassemble this if anything goes wrong. Do look to see that the car sits level all around, as any misalignment will affect handling.

Bodywork

DESPITE the two cars looking very different to each other, all Karmann really did with the TR8 was reskin the TR5. That does mean that what affects one model generally affects the other as well, although there are some grot spots that are individual to each model.

Rust is, primarily, your main enemy when it comes to buying one of these TRs, with the TR6's esistence through to the worst years of British Leyland not having helped its build quality. Howevee, the good news is that practically everything is available from the many specialists who cater for the TR. And, we, you can almost build one of these cars from scratch, such is the healthy state of the parts situation. There are all the susual suspects to check on one of these

cas. The headlamps can suffer - both the outside metal surrounding them and behind the bowls - and the wing bottoms also tend to go crusty with age and dampners too. Doors can suffer from blocked drainfoles, and if they do, the surrounding metal will start to be scrifted to tinworm. Areas which can be overlooked include the front and rear values, thanks to hiding away under the bumpers where they're not immediately noticeable.

Suffice to say, the sills should be scrutinised carefully, paying close attention to the A-post sere. Putrillar new sills on meass: taking both front wings off...which will often reveal even more problems. Sublikades are vulneable to life the high thorwing up by the front wheels, with problems, usually setting in around where the splash spanel meets the inner wing, while the battery tray also tends to go crumbly thanks to its addiction to acid. The near inner wings also go around the B-post and often, you'll just find that this area has just been filled to avoid where the next wings meet with the body may have been covered ower. It shouldn't have been -so if you don't see the same here, you need to find out why.

Double-skinned bonnets promote rust in their leading edge, and replacements are expensive, particularly so for TRSs. Yes, a TBA/TBAA one will fit, but you won't have that distinctive bonnet bulge in front of you. Not that it really matters too much, because that bulge doesn't actually cover anything, it's just Triumph's equivalent of a rolled-up ball of socks on a Saturdav injoin.

Just as homest like to go, so do bootlids, and is one of those areas where HE Sand TRB vary. On the former, it's the bottom two inches of the boot which go, again due to it be bottom two inches of the boot which go, again due to the second of the second

- standard British workmanship from the Seventies - uneven spaces around the doors, bonnets or boots should be investigated further, as they could point to potential accident damage, Evidence here should be used as an excuse to delve further and check for kinks in the chassis (see separate section.) To subout also look for gladifice panels too - at the chassis they are considered to the chassis that the part of the five been offered in this material terms.

Fuel Injection

THE TRS may have been a UK pioneer with its fuel injection system, but as with most trendsetters, mistakes were made because there was little else to look back on and learn from. Rough running is often down to the petrol injection system. The fuel pump is what causes many of the problems, because it is in the boot right above the hot exhaust. Hence it suffers from fuel vaporisation on hot days. Solutions are either to mount the pump somewhere a little less warm, or swap it for a Bosch pump, which is less prone to playing up. Conscientious owners may have done one of these tricks already. A loud continuous sound indicates a healthy pump.

Fuel metering can be difficult as well, although there is a check that can be done to see how well the injectors are working before you dismiss the unit. Disconnect each one in turn and hold a iam iar underneath to catch any fuel. Then you can check to see if there is any hint of a blockage. Beware a car that has been run on unleaded without modification, as the

lack of lead lubrication can result in the meter unit seizing up. You should have a look at the short flexible pipe on the nearside of the engine. If it perishes, then petrol can spill out onto the hot engine. Not

exactly desirable. Carburettor cars - which will probably have been re-imported from the USA - don't suffer from these problems. But of course, they will have far

less power and not be nearly so enjoyable to drive.

HISTORY

1952 It's the dawn of a new (and lengthy) sporting Triumph era, with the appearance of the TR2 at the London Motor Show 1961 With the TR2 having passed through TR3 and TR3A incarnations, the range progresses to the TR4 as a result of a complete redesign by Triumph's

Italian styling guru Giovanni Michelotti. 1965 With the six-cylinder Triumph 2000 model enjoying healthy sales the company starts seriously looking at the idea of dropping the modified Standard Vanguard engine from the executive saloon into the TR, with the project being given the codename Wasp. However, its soon becomes apparent that the engine as it is lacks torque and power and so the unit is enlarged to 2498cc to give a bit more comph. However, a spanner is thrown in the works by the USA, which, rather inconveniently, starts complaining about exhaust emissions. It soon becomes clear that the Wasp will have to be available in two forms: one for Europe, one for the UK. 1967 No longer known as the Wasp, the TRS appears. Well, at least, that's what the car is called in the UK, with the addition of the letters 'PI' at the end to denote that the car has fuel injection, the first British production can to do so. Using the bodyshell of a TR4A with a few minor nips and tweaks, the 2498cc car develops 150bhp thanks to its Lucas fuel injection. This gives it a top speed of 120mph or thereabouts. However, over the other side of the Big Pond, the Americans have to put up with the TR250, This only has 104bhp, thanks to being fitted with Zenith-Stromberg carburettors to keep the new Triumph within Federal emissions regulations. However, perhaps mindful of how lacking the car is when compared to its European counterpart - it's not even as fast as the outgoing TR4 - Triumph chooses to jazz it up a bit by adding nice stripes on the bonnet and front wings. 1968 Now that the six-cylinder engine is in, it's time to look at what a request to do a budget makeover. To its credit, what Karmann comes

surrounds it. With cash for a revamp of the TRS at a premium and Michelotti engaged elsewhere, Triumph approaches Karmann of West Germany with up with is not only cheap, but manages to make the car look radically different. Nothing is done to the centre section, but new front and rear panels are fitted, with the lights now in the corners of the wings and the boot now featuring a Kamm tail. Different as it may look though, nothing much changes mechanically and the States still has to make do with a car seriously lacking in grunt. In recognition of the changes, the car becomes the TR6

1971 The transmission from the Triumph Stag is fitted, which alters the

1973 A new camshaft profile is adopted, in order to make the engine more refined and robust. However, that power drops down to 124bhp 1975 With the launch of the TR7 - back to four cylinders, but with a very different shape to previous TRs - the TR6 goes out of production for the European market in February. However, US - spec cars with carburettors

1976 Manufacture of all TR6s comes to an end, after 94,619 examples have been built. Add on the TRS/TR250 production tallies, and 106,050 sixcylinder TRs have been made in total.

Contacts

- Club Triumph, Tel: 01425 274193 or www.club.triumph.org.uk
- TR Drivers Club. Tel: 01452 614234 or www.trdrivers.com
- TR Register, Oxon, Tel: 01235 818866 or www.tr-register.co.uk

Specialists ■ Rimmer Bros, Lincs. Tel: 01522 568000 or www.rimmerbros.co.uk

- Moss Europe, nationwide. Tel: 0800 281182 or
- www.moss-europe.co.uk ■ TRGB Ltd, Cambs. Tel: 0870 757 2441 or www.trgb.co.uk
- Clive Manvers, Suffolk, Tel: 01359 244417 or
- www.manvers-triumph.com ■ TR Shop, London, Tel: 020 8995 6621 or www.trshop.co.uk
- Southern Triumph Services, Dorset, Tel: 01202 427008 Revington TR. Somerset, Tel: 01823 698437 or
- www.revingtontr.com
- TR Bitz, Cheshire, Tel: 01925 861861 or www.trbitz.com
- TR Workshoos, Gloucester, Tel: 01285 659900 ■ TR Enterprises, Notts. Tel: 01623 793807 or www.trenterprises.com
- Classic Touring (TR Hire). Tel: 01892 891166
- TR Trader, Cheshire. Tel: 0161 485 5005 ■ Yorskshire TR Centre. Tel: 01924 365990

Market Trends

£2500 to £17,500 - EVERGREEN British classics that they are, the TRS and TR6 are sportscars that should always hold their value well. That's generally been the case in the past, and is likely to be the way things remain for quite some time to come as well. If you buy one of these Triumphs, assuming you keep it in approximately the same condition as it was when it came to you. you shouldn't lose too much money when it comes to a parting of the ways. And you might even make something too...

Don't expect to pick up one of these cars cheaply, even in rough condition. You can find yourself having to spend quite a bit even for a basketcase, with a rolling wreck of TRS worth more than some four-cylinder sportscars of the same era

The rarity and old school good looks of the TR5 guarantee this breed a slightly higher price than the more mass-produced. up-to-date looking TR6, but whichever one you go for, don't expect to use your pocket money to buy one. Unless you have VERY deep pockets indeed.

Verdict

For many, it's the TRS that represents the ultimate blooming of the TR flower. It has the traditional looks, but combines them with six-cylinders and fuel injection to create a cocktail that none of the other models looked or tasted like. But with so few TR5s made, finding one might be a problem. And don't be too tempted by a TR250 unless you're bothered more by style than actual substance. Under such circumstances, the TR6 still has much to recommend it. It's essentially the same car as the TRS. but just much easier to find, cheaper to buy and with more modern looks.

Insurance quote

For a £10,000 1873 Triumph TR6 based in Peterborough ■ Fully comp, £100 excess: £219.45 for a 29-year-old, two year's NCB, clean licence, 10,000 miles, only car, kept on drive, club member ■ Fully comp. £100 excess: £81.90 for 50-year-old, full NCB, clean licence, 3000 miles, second car, garaged, club member

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TVR GRIFFITH



Parts prices

Common parts prices, supplied	by TVR Car
Parts	
Rear brake Caliper,	£186.82
Front Brake Caliper,	£182.30
Brake master cylinder	
and reservoir,	£116.21
Clutch cover,	£133.49
Clutch plate (500 and 450),	£123.83
Clutch plate (400),	£88.00
Clutch slave cylinder,	
Aluminium Radiator,	£395.00
Standard Radiator,	£212.40
Silicone Hose Kit (500),	£115.00
Bottom Hose,	£8.57
Full Service Kit,	£79.95
HT Lead Set,	£72.00
Nitron Shock absorber	
ungrade set.	£945.00

Engines

THE Rover-derived V8 engines are a known quantity across the motor trade, and in general most service items are a doddle to get hold of. Regular services will be in the order of £200 for an interim choicy, and £500 for the annual 12,000 miler — when you put that into context of the performance and exclusivity of these cars, that's ridiculously close to a bargain.

and exclusioning or unex cars, rinks induciously usee or a bargain.

Carabsfalt wear is not uncommon, and usually occurs around the 70,000 mile mark – sometimes earlier on more lightly used engines. So pay attention for tapping or uneven running at idle. Don't be put off by low oil pressure readings – this is another Rover V8 faible, and not one to be worried about – as long as it's not excessively low.

TVR gauges, tend to give a feel of 'what's sort of going on rather than what is actually happening and, its worth remembering that they aren't quite up to today's standards

Heat in the engine by can lead to problems such as short-leved stater motors and clach slave and master cylinders—as well as other electrical niggles. Don't confuse a warm regine by with an perpensity to orwhent—it can happen, but this in sme filely be to exactle by a lack of use and controling flan switches than anything else (the fear switch known as the Otter switch is a standard Land Rover part and is an early fix—many owners out for a flan owneries witch which is simple to fix and takes the enry out of this fillings, so do exit, we system warms through—and doestry out to hot—on your test.

override winth which is simple to fit and takes the evory out of this failing, so check the system warms through—and doesn't get too hot – on your test drive. In short, make sure the cooling system is in good shaped. As expected with an engine that has been in production for so long, the major issues have long since been corried, and prove pretty much fuller great. And yourning, But this its keep with these all-aluminium engines—if they are used lightly, they tend to wear more quickly, as many owners make the

mistake of going for mileage- rather than time-related oil changes. And this engine positively needs regular oil changes.

The only other area of potential trouble under the bonnet is the finnt end of the enhance system. Manifolds have been known to crack, and their gaskets can fall. leading not horrendous sounding leaks. This principally occurs with Diverse plus cars and an occur on low mileage, low usage cars more

Post-1992 cars should be fitted with catalytic converters, and as would be expected at this aga, are known to cause emissions problems at the MoT text. The main cause of concern is not the cat itself, which is mounted in a well-protected and sub, but the outgoin sensor, which falls is, leading the engine management system to poly hide and seek with its settings, in other words, MoT failure on emissions need not be catastrophic - although it's no surprise to learn that the earlier poer cat cars are in such demand.

Specification

specification .				
Car	TVR Griffith 4.0	TVR Griffith 4.3	TVR Griffith 500	
Year	1992-1994	1992-1994	1994-2002	
Engine size	3948cc, V8, ohv 16V	4380cc, V8, ohv 16V	4997cc, V8, ohv 16V	
BHP/RPM	240@5300	280@5500	340@5500 (later 320@5500)	
Top speed	160mph	161mph	167mph	
0-60mph	4.8secs	4.4secs	4.1secs	
Gearbox	All models: five-speed manua	l, rear-wheel drive		

Consumption All models: 18-28mpg

Suspension All models: Front: Independent, by coil springs, wishbones, anti-roll bar and dampers. Rear: Independent, by coil springs, wishbones and dampers.

"So close to greatness it hurts' was the description one weekly magazine applied to the TVR Griffith when it hit the roads back in 1992. Today, **KEITH ADAMS** reckons it's all the way there now, and it's a great time to buy, as long as you know what you're looking for...

Wheels

IF you're looking at an early car with kerbed or damaged alloys, make allowances, because the multi-spoked items are incredibly difficult to recondition, and unobtainable new. Later cars with five- and seven-sooke designs are easier to get hold of or refurbish.

Earlier five spoke alloys for the pre-cat models require the more expensive diamond cut finish in order to bring them back to factory condition which can be around £100-Disu a wheel, later 5000 Estorial' wheels are easier to refurbish but are now becoming rarer by the year, especially the 15-inch front alloys that were fitted on Griffiths from 1994 to 2001.

You can smoke through a set of rear tyres very quickly indeed, so make sure there's some meat on the car you're checking out. Bear in mind that tyres specifications changed constantly throughout the life of the Griffith, so make sure the correct size has been fitted – if in doubt, check the TVB Car Club.

Interior

ALTHOUGH there's much that's bespoke in the Griffith's interior – and it's all the better for it – there are parts that your average Vaushall Cavalier owner will recognise. This means that any failures on the stalks and steering column will be easy to sort. Anything else, though, and you're looking at TVKs own parts, and that adds to potential costs if there are

any problems – so make sure the interior is in good order.

If you have low expectations about Interior build quality thanks to
all the tales of woch the truth is that the Griffhi is actually pretty tightly
screwed together and looks pretty special. Damaged dashboards will be
expensive to repair – as the earlier ones are now almost unobtainable
from TVR as a replacement part.

Although the TVR factory may struggle to get replacement dashboard parts these days as none of the new TVR have wooden dashboards three are many specialists that provide excellent replacements, and most are of a better quality than the originals and they are around £300-400 – London carriage company for example.

However, these kinds of problems are rare – and the main area of concern is water damage as a result of leaks. The damaged caused by leaking screens can be very difficult to sort out, and if the car you're looking at has lifting vener, susting screw heads, or simply smells musty, you're going to be doning at chasing out all the damage in the coming months. The main problem is that water collects under the seats – and in extreme cases can not the seat hose.

So don't be scared to have a good poke and prod around the interior.

Transmission

THE Griffith comes with a choice of two gestiones depending on age, if it is a per-1994 car, if have an ILT? Transmission, which has been widely used throughout the Rover range—and unusually for a maintenam variety of the control o

Later cars use the Borg Warner TS 'box - and again, it's more than up to the task of handling the Griffith's prodigious power and torque. Do check the differential bearings by listening for whining from the rear end at constant speed - not checking the oil levels there can lead to premature wear.

Bodywork

OBWOUSLY being glassfibre, the TVR isn't going to suffer from rust in the





should take even more care when looking at his or her next car.

The dangers lurk under the skin, and falling to check out the chassis

now could leave you in hot water in years to come. Although it was powder-coated in the factory, this finish deteriorates and can suffer for surface rust. All reputable service agents should rust treat the chassis when the car is in for attention, so pay close attention to the service history.

It is advisable that the chassis is regularly waxoyled (to helps the chassis fend off corrosion but also show any prospective owners that you are not trying to hide any problem areas use the clear type and be wary of black coated chassis.

The bodywork itself really only suffers from paint damage due to mileage. The nosecone will need regular reprays during the life of the car—not only will parking scrapes take their toil on this bumper less car, but stone chips will also play hance. Lucklijs the Griffith design helps the paint spraying prosess due to its shape. A good body shop can match the front horselshoe section without the need to paint the bonnet and lesen the car lookin in its to bo condition.

Firmer knocks can lead to crazing, and at the front, the eventual cure will be to replace the nosecone – and as TWR doesn't do the earlier specversion, that'll be a Griffith 500 lenn. If nothing else that means spotting a replaced front end will be easy – and not necessary the harbinger of previous disasters. Just make sure it has been fitted well.

The hood is a next two-piece item that is most effective in use - the foldsway hood needs to be kept waterproofed, and the lift out targa panel: can get scuffled and scraped if not stowed properly. The main point to watch is that it is leak free - so make sure the targa's rubbers are in qood order.

The mohair roof is generally fairly waterproof although it needs annual teatment of waterproofing and the rear screen stitching can disintegrate with age. The center noof section does have a tendency to mark against the fuel tank when it is inserted in the boot for storage A new complete hood and rear screen is available for around £600-700 lincluding fitting). Light units need waterhing for water ingress, and the door openers can

Light units need watching for water ingress, and the door openers car fail – neither of which should pose problems for those looking to repair or replace. Back lights damaged? Take a trip to your local scrapple and find a Cavalier Mk3 hatch – they're the same...

Replacement of the chassis is usually the result of an accident, and not necessarily a sign of doom and gloom, if the job has been done properly. The entire chassis assembly costs a reasonable £2000, and that means any damage-repaired Griffith should be straight and true. If you're looking at a critat isn't, then serious questions need to be asked.

Brakes

THERE is nothing too scary here as disc and calipers are common to a variety of cars in the Ford range, and therefore are very easy to come across in the service bay. As with all performance cars, you won't want to leave your Griffith standing too long, as rust can soon take a hold of the discs, accelerating the need for replacement. Now there's a good excuse for not leaving your TVR in the GARGE.

Contacts

Clubs

■ TVR Car Club, Unit 5, Nova House, Audley Avenue Enterprise Park Newport, Shropshire TF10 7DW. United Kingdom. Tel: 01952 822126 or www.tvr-car-club.co.uk

Specialists:

- James Agger Autosport, 01509 881 516, 07970 530 890, www.
- jamesagger.com ■ TVR Power, 339 Bedworth Road, Longford, Coventry, CV6 68N, 024
- 7636 6177, www.tvrpower.co.uk. Austec Racing, Unit 5, Forgewood Industrial Estate, Gatwick Road, Crawley, RH10 9PG, 01293 531080, www.austek.co.uk.

Suspension

BEING a high performance car, it is imperative that suspension geometry settings and tyre pressures are absolutely spot on. Because there's so much power to play with, any inaccuracies can lead to seriously wayward handling

Not as much as if there's a structural failure, though. Don't think that just because the Griffith is a relatively modern car that you can skimp on checking out underneath - because it is vital to check out suspension wishbones. These are known to rust right through, and eventually collapse, and although they are relatively inexpensive to replace, it might get un-noticed on a car that's gone a long time between services.

The Differential bushes at the rear are a guite common wear item and this can usually be picked up by a clunk behind the drivers/passenger seat on hard acceleration - these are

HISTORY

1986: TVR launches its 'S' model, which is effectively an updated version of its 'M' series of cars dating back to the early Seventies. The Tasmin 'Wedge' retained V8 power in 350, 390, 400, 420 and 450 forms, leaving the curvaceous 'new' roadster as the entry-level Ford V6 powered option.

1989: Brisk sales of the TVR S encourage management to pursue a new design direction. TVR boss Peter Wheeler and stylist John Ravenscroft pen a swoopy design concept, which is based around the Rover V8 engine and the chassis of the S model. The intention is for the concept to become the cornerstone of the TVR range, ultimately replacing the increasingly outrageous 'Wedge' cars.

1990: The wraps come off the Griffith for the first time at the British Motor Show, held at the NEC in Birmingham. Although it is a tradition for TVR to show concept cars at the bi-annual show, with vague promises of production, there's a real buzz about this one. The massively favourable reaction to the car from showgoers confirms that TVR has a potential hit on its hands, and commits the car to future

1992: The first Griffiths go on sale, and unlike the Motor Show cars, these now sit on the strengthened chassis of the TVR Tuscan racer Two variations of the tuned TVR Power engine based on the long-lived Rover V8 - in 4- and 4.3-litre form are available. The press loves the car. and TVR struggles to meet the demand from clamouring buyers. The Chimaera is launched at the same time, using the same engines and much hardware from the Griffith - and for many buyers, proves to a more practical alternative.

1994: The Griffith 500 is launched - a lot more power and performance for a little more money, and it proves a strong seller from the 1999: Power steering is added as standard although this has been a

2002: Production ends, although a few cars remained unsold into 2003

- David Batty, The Garage Guildford, Surrey 01483 811995 ■ Tower View Racing, Blackpool House, Waterloo Road, London, NW2
 - 7TS, 0208 452 6922, www.t-v-r-services.co.uk.
- Offord Motor Company, Offord Davey, Cambridgeshire, 01480 811484, www.offords.com
- David Geralds, The Inkberrow, Worcester, WR7 4JF, 01386 793237. www.davidoeraldtvr.com
- Sportmotive, 01782 333008 or 07976 0006
- Bell Hill Garage, 01373 834 25, www.bellhillgarage.co.uk ■ T.E.T: 01253 892342
- TVR Car Parts, Cullompton, Devon, EX15 288, 01884 266755, www.tvrcarparts.com

Market Trends

GIVEN the cult following the TVR Griffith enjoyed during its production run - and since - it's no surprise that values remain high for the best cars. Although there doesn't appear to be a major premium for low mileage, condition and history is exceptionally important when it comes to values

The bottom line is that the best cars remain north of £20,000 and probably will do so for the foreseeable future, whereas abused examples continue to fall to the right side of £10,000 - assuming you're ready to take a gamble. Many people have been saving that the Griffith won't get any cheaper than it is now, and an increase in values of the best examples over the past three or four years certainly bears out this hypothesis.

Although as time goes on it is inevitable that the older cars have more non-standard parts and options, original unmolested, factory specification examples seem always to make the top money - originality in the used Griffith market is paramount for good used values Also note that pre-cat cars command a healthy premium.

Verdict

IF you went by everything you read in the mainstream press, you'd be mad to consider a TVR when there are plenty of good Porsches out there. After all, they'll have you believe a TVR will fall apart rapidly, and will constantly break down.

Actually, the truth is some way away from this, and although a TVR Griffith does not enjoy German levels of build quality, you'll find a huge selection of tried and tested components

It's clothed in an achingly beautiful package, proving once and for all that the sum of the parts is easily exceeded by the whole The truth is, for every unhappy Griffith owner out there, you'll find

hundreds who have never regretted their purchase, and would gladly go back and buy another. As classics go, it's perfect, too - because although you'd struggle with the practicalities of day to day running (there's the roomier Chimera for that), you can enjoy it as a weekend toy Having said that as long as you're not bringing the family along and

aren't stuck in town too much, why not use it daily? They can take the mileage with careful attention paid to serving. As with any car that can crack five seconds for the 0-60 run, you need

to make sure the car you're considering hasn't been smacked up, and that it has a good, solid history with a reputable specialist or main agent, and you'll be fine. Just make sure you don't mind being the centre of attraction, and you're not looking for a relaxing drive - and if you don't mind all that, you'll be in great danger of falling in love...

Insurance auote

For a £14,000 1994 Griffith 4.3 with no modifications, based in Peterborough ■ Fully comp, £100 excess: £680 for a 29-year-old, two years' NCB, clean licence, 10,000 miles, only car, kept on driveway, club member, (with cat 2

immobiliser) £745 without. Fully comp. £100 excess: £426 for a 50-year-old, full NCB, clean licence, 3000

miles, second car, garaged, club member, (with cat 2 immobiliser) £444.15 without Quotes from Firebond (0870 111 0464 or www.firebond.co.uk)

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VW CAMPER/BUS



Engines

Air-cooled VMs have a reputation for reliability but none of them will last forever without regular maintenance. So, check the condition of the oil as it is the lifeblood of the flat-four, keeping it cool and running sweetly, oil leaks are common, but not good, the flat-four, keeping it cool and running sweetly, oil leaks are common, but not good, seed is up the swanny and that's an engine out job to fix it — not the end of the world, but a pain in the next all the same. Most campess are likely to have a 1600cc engine in the back now, but early splits can have something as meager as a 1200cc unit pushing them upfill and other oils. Leak they share 21thes suitcase silve engines, which were more powerful but thirster as a result. There's an entire industry devoted to making under the control of the control

Watch for blue smoke and check the oil pressure. It's also a good idea to give the lower pulley a yank. If you detect any noticeable movement or hear a thunk it means there's end-float (play in the rear main bearing) and that means a rebuild. Look after them and well over 100,000 trouble free miles is a reasonable assumption.



Outer front panel repail

Parts prices

y's end-float (play in the rear main bearing) and that means a rebuild. Look after a and well over 100,000 trouble free miles is a reasonable assumption.				(Bay) Complete front p (Bay) Battery tray (Bay) Rear corner repai
cifica	tion			(Bay) Cab door skin (Bay) Cab door kit (Replacement door and
cle	21/23-Window Samba	11-Window Microbus	Late bay window	(Bay) Front wheelarch

Vehicle Year 1967 Engine 1192cc 4-cvl HO 1493cc 4-cvl HO 1700cc 4-cvl HO 7495400 BHP/RPM 30@3400 53@4200 Top Speed 55mph 65mph 70mph Gearbox 4-speed manual 4-speed manual 4-speed manual Consumption All models: Between 26-36mpg

Suspension Front: Independent by trailing arms, torsion bars, anti-roll bar, hydraulic shock absorbers. Rear: Independent by semi-trailing arms, torsion bars, hydraulic shock absorbers. Split screen models also feature reduction boxes on rear £295.00 £17.95 £23.95 £29.50 £199.00 £79.50 £10.95 £24.95 ch £49.95 £32.50

£79.00

£47.50 £17.50 £36.50 £23.50 £37.50 £149.95 Volkswagen's box on wheels has been used for every task under the sun, but by far the most loved variant is the camper van. The archetypal hippy wagon is the four-wheeled embodiment of flower power so JAMES PEENE tunes in, drops out again, and sees what all the fus is about. Expert advice comes courtesy of Jeff Cullin from Just Kampers.

Brakes

All splits creem vans left the factory with drum baskes whilst the later generation of bay windows can with discs on the front. Drums are usually okey if they're properly adjusted but if you plan on fitting a laper engine, or just want to know that you can stop in a hunry without locking up if you have to, then they you can stop in a hunry without locking up if you have to, then about originally you can if is all the bybe me to an exifte two, but then you'll need adaptors to run your original wheels, as the stud patterns are different. Or, you can buy front and rest disc conversion like in a variety of patterns, be it late or early affected in the patterns of the study and the study and

Interior

There are many camper conversions out there, so it really is a matter of horses for courses. Danbury, Dormobile, Devon, Canterbury Pitt, Westfalia, all are



rift; westudie, an are different, so do your homework first so you know what kind different, so do your homework first so you know what kind different, so do your why was consense referent for those on a budget, but do your wally wast consense referent to the control of the source of the control of the source of the source

Keep your eyes peeled for signs of water damage as poptogs can leak (although all parts to fix them are available) and split screen vans with front Safari windscreens are the quickest way to rot your carpets and destroy the metal work underneath.

You can get pretty much anything you need these days although Westy parts can be a bit on the pricy side. Door cards, cushion fabrics, curtains and whatever else you need are available to return your camper to stock show room condition or you can go mad and create your own if that's what floats your boat.

Suspension

Standard ride height campers are great to drive. They soak up bumps and imperfections surprisingly well, but they do tend to wander on motorways and suffer from crosswinds. Many buses are lowered, more for looks than handling, but done well it will improve the ride no end. Taken to extremes however and it can be dangerous, wearing out components and creating a bumps, usiring exceptions.

The preferred method of lowering a Type 2 is to weld adjusters into the front beam, so they are easy to raise back up again, although it's best to check the quality of any work that's been done. All of the components are fairly robust and most are easy to find and cheap to replace. Rear ends are simply turned on their spring plates to get them nearer to the ground.

Bodywork

It doesn't valley matter whether purits looking at a gift scene no buy window camper they both on gist a hornwedowley with a davic will agript to either modelf the problem intri down in Vivi balf a quality - it spare - but the nature of these welches in the winter they're presently no be just first into most people signates, and a proposition of the problem in the problem of the problem in the man and in the summer being pasted on problem and the proposition of problem for a problem of the bushwards of the problem of the problem of the problem of the problem of the bushwards of the problem of the problem of the problem of the problem of the bushwards of the problem of the problem of the problem of the problem of the bushwards of the problem of th

immediately IW campers might be the height of fashion at the moment, but the want shangs the can About 10 years and you could glock them up for peanuts, which means people didn't really care a great deal about them. Sadly, this means a lot of them have been through the hands of bodgers. As could plant can had all manner of six and bate if from the voice of experience, here. It's flustratingly common to find new panels welded over old and whole sections specimilar careful.

If you can find yourself a one owner from new bus then buy it

If you see a camper without the seams in the side of the arches you can quarantee Mr Bondo has paid it a visit, so start asking questions.

Take a look at the front panel on any camper, especially in the lower portion behind the bumper. They always go here and bubbling is the first indication something is amiss. They also rust under the windscreen rubbers so give any suspect areas a firm prod and check for crustiness.

If the vehicle you're looking at has a spare wheel mounted on the nose, look at the metalwork around that. It's often the first point of impact in a front-ender and you don't want to remove it at a later date and find the panel is dented.

Move along the side and look at how ripply the long panel is. This will provide clues to how well any paintwork has been done. Getting the huge panel straight is a mammoth job and will show up any sloppy prep work in an instant.

Then, look along the other side, the one with the door(s). Bay windows

here, those abong one orner sock side one wint or colours, body without softs have a silling abor (or one on both side as an optional exita) withis soft screen buses have two opening doors (or very rarely a silling door). Either will rust along the bottoms and if you have to track down a replacement it will mean looking for a secondhand item. If the outer sills look a bit troops, then it means there's worse to come

undermeath, but before diving undermeath take a look at the rear end. Bubbling rear corners mean things like possibly grotty battery trays and if you have to replace the corner, it usually means the tray has to come out too and vice versa. "alligates, engine lids and front doors will rust along the bottoms and

Tallgates, engine lids and front doors will rust along the bottoms and unless you're looking at a bay window, replacements will have to come from swap meets again. If that's not enough to put you off take a peek at the underside. Some

campers will have belly pans. Fresh ones can be hiding something nasty, so findings in the can be a good or bad sign. Either way, inner slik, chassis ralls, out-riggers, jacking-points, crossmembers and the floors above them can and do not like you couldn't believe.

That said, eventifine is still available and if you're a dab hand with the

welder you can take your time with a rolling restoration and save yourself a packet.

Anything is saveable but you have to ask if it's worth the effort and cost

involved especially if you're looking at a late bay window... Obviously all but the very worst split screen campers are worth preservation, especially if it's very old, like a barndoor or has lots of windows, like a Samba. Take your time and flord yourself a nond one it will cost far loss in the

Take your time and find yourself a good one, it will cost far less in the long run. Or, if you don't want any of the hassle of a resto, then you can still buy a brand new bay from Danbury Motor Caravans, see the specialist section for contact details.

HISTOR

How greedy can some people be? After all, some motoring manufacturers turn out car after car and never quite capture the public's imagination, and yet Volkswagen has produced two of the most iconic machines in automotive history

the Beels and its big sister, the Type 2. In basic panel van and Kombi guise the Inpage 2 or Transporter to use its official momilier became a global prihenmenom momilier became a global prihenmenom in in its own right, but when given a camper conversion it opened a whole new can be considered and forbottle be more from home with a could be, and was, used by people from all walks of life to go anywhere and everywhere, from Tourque to Turbukin.

1934 A certain moustachioed dictator lays the foundations of Volkswagen and gets Ferdinand Porsche to build him the People's Car – the Beetle.

1945 With both him and World War Two out of the way a British army major by the name of Ivan Hirst fires up the production lines again and the Beetle (the car that VW will build its entire empire on) is reborn. It goes from strength to strength and business booms.

1947 A Dutch vehicle importer, Ben Pon, visits the Wolfsburg factory and sees some furnity looking home-brewed devery platforms unning around the place. Intrigued, he asks about the possibility of acquising a few of these Plattenwagens to self to the public UW effects, so Por their again and this time sletches a root box on wheels' design. This doodle is given the green light and Pon's dream takes a stee insured season.

1949 The prototype Transporter breaks cover. Using the same rugged mechanicals as the Beetle, but with a simple boxy body strengthened by longitudinal box-sections and cross-members the split screen van is born.

1950 The first generation VW bus begins trundling off the Wolfsburg production

line with a 25bhp air-cooled engine.

1955 The split screen's front end receives a peak over the windscreen with air vents to improve ventilation, whilst at the rear the engine cover shrinks and an

vents to improve ventration, whist at the rear the engine cover sinning and an opening taligate is added. This signals the end of the road for the so-called early 'barndoor' models.

1956 Production switches to the new purpose-built Type 2 factory in Hanover.

1967 German production of the first generation VW bus comes to an end as the Hanover plant begins turning out the new buy window model. The mountful front end is replaced with a squarer profile and a panoramic windoscene. Sliding doors replace the splitty's twin opening cargo doors and the troublescene reduction bowselving Asker make vay for independent rear suspension.

1971/2 Front indicators move up the front panel to a less damage-prone location, the split screen-style rear lights are replaced with larger and squarer items, bumpers become more box-like too and the rear air vents are tweaked so they are no longer as moon shaped - all a great shame.

are no longer as moon shaped – an a great shame...

1979 German production of the bay window comes to an end as the wedge-like
Type 25 comes into being. The bay is not dead though, as it soldiers on to this day
in Brazil, albeit fitted with a water-cooled 1.4-litre PoloiFox engine.

Verdict

Take it from us, there really is nothing like driving an old VW bus, be it a splitty or bay window model. Every journey feels like a mini adventure. even just popping to the shops for a pint of milk! 'Drive' probably isn't the right word as you don't so much pilot it as sit, hunched over the massive, thin-rimmed steering-wheel, and direct it through curves and gentle bends with your elbows. Unless you're really hardcore you wouldn't want to drive a split screen bus on a regular basis. As charming as they are, they have poor ventilation, terrible wipers in the wet, almost no creature comforts and the ride and level of refinement will quickly wear you down. That said, plenty of people do, but even they have to admit a bay is better. From 1972 they got disc brakes on the front, had bigger, more usable engines as standard and are generally more comfortable and easier to live with, But, whatever model entices you in to the world of old VW buses it will gain you instant access into a strangely cultish world of knowing nods and waves from strangers in other Campers - and once you're converted, there really is no going back - it's a bus thing.

A Volkswegen camper is the perfect virtuals MPM. It has soul, chairman and unability by the Permitful Tooy jam read to be a bit of an association or have deep poolete/enjoy variantaining them. A good box will be the perfect garantee for wherevirtual anyot, the solid on In 2017 you ament it. Gold affordable when you don't have be to buy too many of them in one go. Tolking one marky so out as someone who likes to be a bit officered and they are still the symbol of counter-cubure long after the hippies cut of their hart and por register Josepse folks. Froit a good one and you'll be fer hart and por register Josepse folks. Froit a good one and you'll be

Contacts

Clobs

You'll find local clubs all over the place for the camper...or rather for air-cooled Volkswagens, as, if it's Beetle-related, it's generally warmly welcomed by any Beetle club. Three of the main organisations though are:

- Volkswagen Owners Club, PO Box 7, Walsall, West Midlands, WS7 2SB or www.vwocqb.com
- Split-screen Van Club. Tel: 01926 814860 or www.ssvc.org.uk
 Volkswagen Type 2 Owners Club. Tel: 01527 872194 or www.vwt2oc.org

Specialists

- Just Kampers, Hampshire. Tel: 0845 120 4585 or
- www.justkampers.com
 Cool Air, Kent. Tel: 01322 335050 or www.coolairvw.co.uk
- Alan Schofield. Derbyshire, Tel: 01457 854267 or www.ahschofield.co.uk
- VW Heritage, West Sussex. Tel: 0845 873 8328 or
- www.vwheritage.com

 Karmann Konnection. Essex. Tel: 01702 601155 or
- www.karmannkonnection.com

 Danbury Motor Caravans Ltd, Bristol. Tel: 0870 1202356 or www.danburymotorcaravans.com

Check out

- www.thesamba.com (Invaluable US resource)
- VolksWorld Camper&Bus magazine, www.volksworld.com (Fabulous UK resource/vehicles for sale)
- www.volkszone.co.uk/VZi (UK website/vehicles for sale)

Insurance quote

- For a 1971 Volkswagen bay window camper, valued at £5000, based in Peterborough
- Fully comp, £165, for a 29-year-old, two years' NCB, 10,000
- miles, only car, kept on driveway, club member

 Fully comp, £81.90, for a 50-year-old, full NCB, 3000 miles, second car, garaged, club member

it – guaranteed – as long as you don't need to be anywhere in a hurry! The social scene is massive and if you just want to be left alone what better vehicle is there to go your own sweet way in? Home truly is where you park it.

But don't just take our word for it. Our expert, Jeff Culkin from Just Kampers, knows VW Type 2s like the back of his own hand. Here's what he has to say about them...

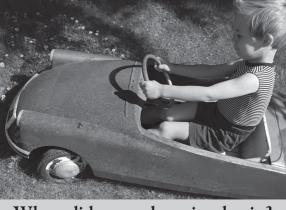
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2007 is the 40th anniversary of the Summer of Love and If ever a vehicle was associated with an exit is the WL camper van and 1967. Concidentally, WI baunched the Bay Window Type 2 in late-1967 and after much deliberation the consensus Aux Kinapnes is that the early bay (1967-1972) is the one to have because they are practical styles, and all difficulties all consensus to the state of the state of any to maritain and all difficulties. All confirmation and the later price ready, wallable hot the early bay is the one you can boy with your finer its well as your head? **Timewarp Classics**



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