



XKR

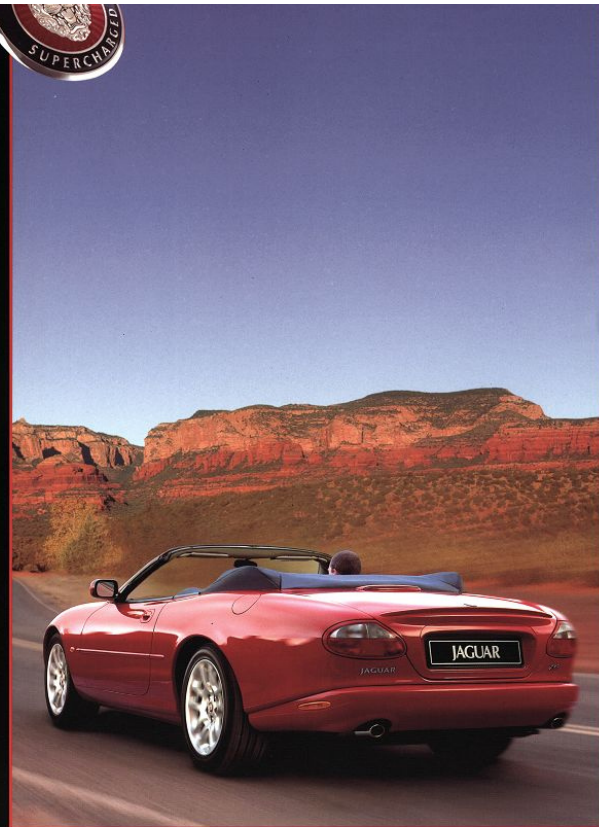


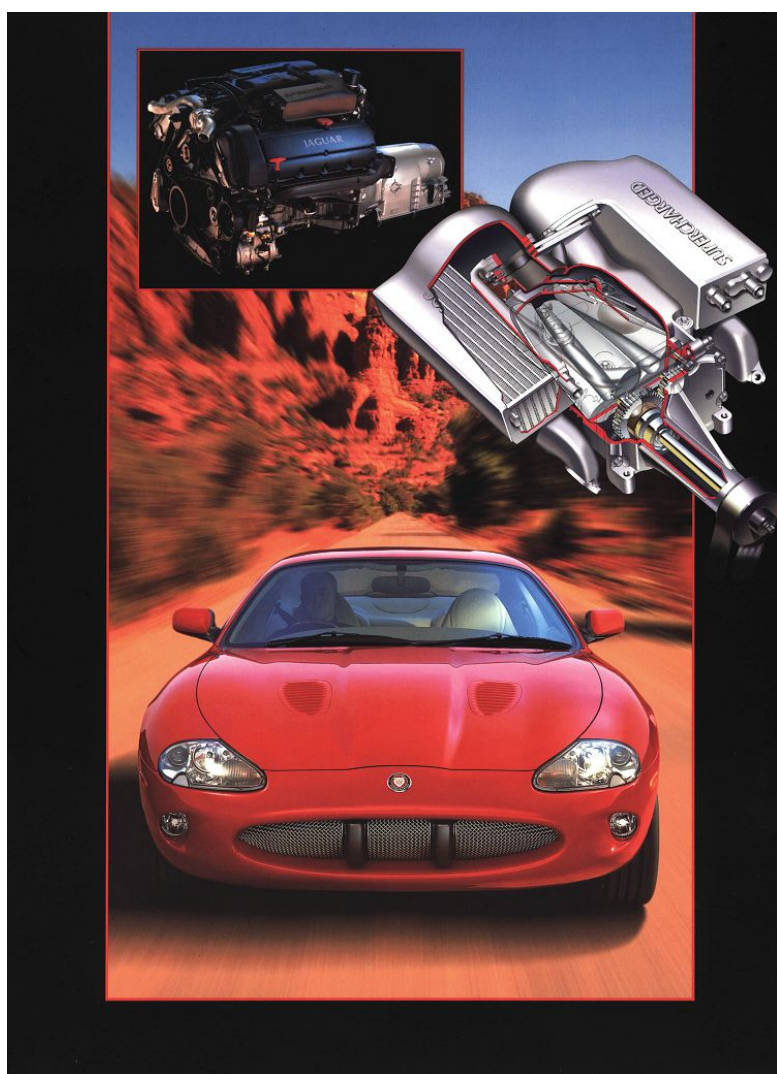


JAGUAR

Jaguar Cars Limited Browns Lane Allesley Coventry CV5 9DR England

Design and production: Warwick's UK Limited, Coventry. Printed in England







XKR





**FIFTY YEARS OF JAGUAR XK SPORTSCARS
XK120 AND XKR**



XKR CONVERTIBLE



XKR COUPE

JAGUAR'S SUPERCHARGED XKR SPORTS CAR NOW ON SALE

Jaguar's new ultra high performance, supercharged XKR coupé and convertible sports cars, unveiled at the Geneva auto show in March, go on sale immediately in the UK and Continental Europe. XKR will go on sale in other export markets progressively over the next few weeks.

Building on Success

The new XKR models build on the success of the XK8 which made its debut at the Geneva show in 1996 and is now the fastest selling sports car in Jaguar's history. In 1997, Jaguar sold 14,619 XK8s across the globe - 88 per cent higher than 1996. Jaguar projects worldwide sales of the new XKR of around 1500 cars in 1998.

The principal market for the new XKR is Europe, accounting for 95 per cent of forecast sales in 1998. In the UK, which is forecast to take over 35 per cent of XKR worldwide volume, 70 per cent of sales will be coupés. The next largest market is Germany, representing 30 per cent of total sales, with an even split between coupés and convertibles. The remaining European markets - principally France, Italy, Netherlands, Spain and Belgium - account for a further 30 per cent of forecast XKR sales this year. XKR will be launched in other markets during the course of 1998 and 1999.

Supercharged V8 powertrain for refined power

The new XKR is powered by the same 4.0 litre supercharged AJ-V8 engine as the Jaguar XJR sports saloon, which, when launched last autumn, redefined the standards of refined power. Developed at Jaguar's Engineering Centre at Whitley in Coventry, the supercharged AJ-V8 engine features an immensely stiff yet lightweight cylinder block design, providing an excellent platform for pressure charging with refinement. The supercharged AJ-V8 in XKR produces an exhilarating 276 kW DIN (370 bhp), 28 per cent more power than the normally aspirated XK8 models. The XKR's maximum torque of 525 Nm DIN (387 lb. ft) - 33 per cent greater than XK8 - is achieved at only 3600 rev/min for optimum driveability. The Eaton M112 supercharger from the XJR saloon is retained together with a compact air-to-liquid intercooling system with twin intercoolers - one to each bank.

The five - speed electronically controlled, intelligent, wide ratio automatic transmission provides seamless power delivery while benefiting fuel economy. Minor recalibration of the engine management system and transmission control module is required to suit the XKR application.

Performance with economy and low emissions

The resultant performance makes the XKR the fastest mainstream production Jaguar ever, even faster than the supercharged XJR sports saloon.

The new XKR coupé accelerates from rest to 60 mph in a mere 5.2 seconds (convertible 5.3 seconds) and from zero to 100 km/h in 5.4 seconds (convertible 5.6 seconds). However, the performance advantage of XKR over its saloon stable mate is most marked above 100 mph, making it a formidable performer on unrestricted German autobahns.

Despite this prodigious performance, the efficiency of the new XKR powertrain also ensures that fuel economy and emissions are among the leaders in its class. The XKR coupé achieves 29.3 mpg (9.6 L/100 Km) on the EU extra-urban cycle and a combined economy figure of 23.1 mpg (12.2 L/100Km).

The advanced, innovative design of the all-aluminium AJ-V8 engine ensures that XKR comfortably meets not only the current stage 2 emissions requirements of the European Union but those presently proposed for the year 2000.

The twin catalysts, mounted to the exhaust manifold, begin to operate within 30 seconds of start-up, significantly reducing emissions on even the shortest journeys. The thin-walled exhaust manifold reduces thermal inertia to speed up catalyst operation. The patented, high velocity cooling system with its low - volume cylinder head and block cooling passages achieves engine warm up in less than 4 minutes in a simulated urban test cycle. This reduces both cold-start emissions and fuel consumption.

Enhanced refinement

The new two-piece propshaft is similar in design to that of the supercharged XJR saloon with an equal length between the fore and aft tubes, enhancing refinement. The modified air intake system features two 1/4 wave resonators for improved cabin refinement and reduced external noise levels. The exhaust system also incorporates detailed internal design changes for enhanced refinement.

Optimised dynamic performance

Jaguar engineers have also modified the suspension, steering, braking and tyre systems to optimise the dynamic performance of XKR.

Jaguar's Computer Active Technology Suspension (CATS) is standard fitment on XKR. CATS uses adaptive dampers under electronic control to optimise ride and handling in all conditions.



The CATS system for XKR is basically the same as that fitted to the XJR saloon but with a slightly more sporting tune. Together with Bilstein digressive dampers, this combines excellent body control particularly at high speed with a consistent, slightly firmer low speed ride.

New-style cast alloy road wheels of 18 inch diameter are unique to XKR models, but are the same size as the standard XK8 wheels when specified with CATS. These are fitted with Pirelli "P Zero System" 245/45 ZR 18 tyres on 8 inch rims at the front and 255/45 ZR 18 tyres on 9 inch rims at the rear. The front tyres are the same as those fitted to the XK8 while the rear tyres have a revised construction, improving handling and grip and providing a more linear response to steering inputs.

The sum of these changes is to refine the already excellent XK8 chassis, enhancing both the handling and stability of the high performance XKR.

In common with XK8 and the XJR supercharged saloon, the braking system of the XKR features ventilated discs, front and rear. Up-rated, higher friction front disc pads ensure that system performance is maintained at higher operating temperatures. The new brake pads are of a lead-free construction to minimise the impact on the environment, pre-empting future legislative requirements.

The XKR features the Servotronic II steering rack, the first application worldwide for this latest generation ZF system. The electronically controlled speed proportional steering system, with a variable ratio rack bar, is recalibrated to provide a greater degree of weighting at medium to high vehicle speeds, in keeping with the XKR's sporting character. Increased stiffening of the rack bushes - by approximately 17 per cent - together with the Servotronic II system improves steering precision and increased steering "feel" during cornering.

Style enhancements signal sporting character

The award-winning style of the XK8 embodies the unique Jaguar signature, making it instantly recognisable to discerning car enthusiasts worldwide.

The elegant and powerful flowing lines evoke the great Jaguar sports car legends - the XK120, the race-bred C and D-Types and the sensuous E-Type .

For XKR, subtle enhancements of the beautiful exterior clearly signal a more powerful and sporting character, emphasising Jaguar's characteristic feline stance.



Twin louvred inserts in the bonnet and a bootlid-mounted spoiler provide visual clues to the supercharged performance beneath the surface as well as maintaining the optimum balance between front and rear end lift. The bonnet louvres also optimise air flow through the high performance cooling system.

The traditional Jaguar oval air intake mouth on XKR features a bright mesh grille in stainless steel, emphasising the family links with its supercharged XJR saloon stable mate.

The colour range for XKR is restricted to 8 body colours - including the dramatic new Phoenix Red - specially selected to suit the sporting character of these exciting new models.

Comprehensive feature specification

The XKR coupé and convertible, in traditional Jaguar fashion, represent exceptional value for money with a comprehensive standard specification. The following features, optional at extra cost on XK8, are standard on XKR models:

- Computer Active Technology Suspension
- New 18 inch alloy wheels
- Sport Leather Pack
- Wood/Leather steering wheel and wooden gear knob
- C.D. Autochanger (6 disc, boot mounted)
- Cruise Control
- Exterior electrochromic, power fold-back mirrors
- Headlamp power wash

In the UK, the XKR coupé retails at £59,300 and the convertible at £66,300 significantly below the major facing competition. This represents a premium of £9350 versus the standard XK8, including over £4,000 worth of additional equipment.

Commenting on the launch of the new XKR, Nick Scheele, Jaguar's Chairman and chief executive said: "XKR provides an unrivalled blend of styling panache, supercar performance, handling precision and outstanding value for money.

This year Jaguar celebrates the fiftieth anniversary of the launch of the brilliant XK120, which set new standards for sports car performance. XKR is a worthy descendant which I am sure will further enhance the reputation and appeal of the XK8 range among motoring enthusiasts worldwide."



FIFTY YEARS OF JAGUAR XK SPORTS CARS

1948

- XK120 launched at London Motor Show, Earls Court, in October with Jaguar's first-ever in-house designed engine, the 3.4 litre twin overhead camshaft XK, developing 160 bhp (190 bhp S.E. model available later).
- XK120 hailed as the most beautiful production sports car in the world and the fastest at 126 mph.
- Designed by Chief Engineer William Heynes, Walter Hassan and Claude Baily, the XK engine went on to power several generations of post war Jaguars.
- XK120 typified Jaguar value-for-money, priced at just £998 (£1298 with tax)

1950s

- XK120 and its purpose-built racing cousins, the C-Type and D-Type, scored famous victories in races and rallies across the globe.
- Jaguar C-Types won the Le Mans 24 Hour Endurance Race in 1951 and 1953; the D-Type won in 1955, 1956 and 1957.
- In 1954, the visually similar XK140 was launched with up to 210 bhp (C-Type head) and larger cockpit, improved refinement, stability and practicality. The XK engine was set 3 inches further forward in the chassis; rack-and-pinion steering carried over from the racing C-Type; overdrive and automatic options for first time.
- A road-going version of the D-Type racer, the XK-SS was launched in 1956 but production was halted by the factory fire in 1957 after just 16 were made.
- The XK-SS achieved 0-60 mph in 5.2 seconds and 0-100 mph in 13.6 seconds with a top speed of 145-150 mph, impressive performance even by today's standards.
- The restyled XK150 emerged in 1957 with the 3.8 'S' version developing 250 bhp giving 133 mph and 0-60 mph in 8.5 seconds. The first series production car to feature four-wheel disc brakes. More modern style with one-piece wrap-round, toughened glass windscreen.

1960s/1970s

- One of the greatest sports cars of all time, the E-Type (known as XK-E in the U.S.A.) was launched at Geneva Show in 1961. Under the long sensuous bonnet, the 3.8 litre XK engine powered this sensational car to 150 mph.
- In 1964, the XK was enlarged to 4.2 litres, giving 265 bhp.
- By 1971, the XK engine in E-Type was replaced by the 5.3 litre V12.

1990s

- Jaguar's new XK8 coupé and convertible sports cars unveiled at the Geneva Show in March 1996, going on sale in October that year.
- The new, advanced AJ-V8 290 bhp, 4.0 litre V8 engine and 5-speed auto achieved major advances in performance and economy over XJS, best-in-class performance feel and powertrain refinement combined with excellent ride/handling balance.
- In March 1998, the supercharged 4.0 litre XKR was unveiled at Geneva for launch in May, celebrating 50 years of XK Jaguars. The 370 bhp engine powers the XKR to 60 mph in 5.2 seconds onto an electronically limited 155 mph top speed to become the fastest ever series production Jaguar.



XKR - SPECIFICATIONS

ENGINE

Cylinders/valves per cylinder	8/4
Bore/stroke - mm	86/86
Capacity - cc	3996
Maximum power - DIN BHP (kW) @ rev/min	370 (276) @ 6150
- EEC kw	267 @ 6150
Maximum torque - DIN lb.ft. (Nm) @ rev/min	387 (525) @ 3600
- EEC kw	505 @ 3600
Compression ratio :1	9.0:1
Transmission	5 speed automatic

PERFORMANCE (manufacturer's estimates)

Acceleration 0-60 mph [0-100 km/h] - sec	5.2 [5.4] coupé / 5.3 [5.6] convertible
Top speed - mph (km/h)	155 (250) Limited

FUEL CONSUMPTION*	coupé	convertible
Urban - mpg (l/100km)	16.9 (16.7)	16.1 (17.6)
Extra urban - mpg (l/100km)	29.3 (9.6)	28.8 (9.8)
Combined - mpg (l/100km)	23.1 (12.2)	22.4 (12.6)
Tank capacity - Ltr (gals) approx.	75 (16.5)	

WEIGHT**

Kerb weight - kg (less options)	1640 coupé / 1750 convertible
Gross vehicle weight - kg	2010 coupé / 2100 convertible

WHEELS/TYRES

Wheel type	Alloy 8" x 18" front / 9" x 18" rear	
Tyre size	Front	245/45 18 Directional
	Rear	255/45 18 Assymetric
Turning circle ft. inch. (m)	36ft 2in (11.0)	
Usable boot volume - VDA cu. ft. (m ³)	11.5 (0.324) coupé / 10.8 (0.307) convertible	

* The fuel economy figures were obtained from tests carried out in line with the Passenger Car Fuel Consumption Amendment Order 1996. These figures were correct at the time of going to press.

** Please consult your dealer for details of changes associated with option fitment. Kerb weights reflect vehicles to standard specifications. Optional extras increase weight.

XKR FEATURE AND OPTION AVAILABILITY

MECHANICAL	
Airbags (Supplementary Restraint System) – driver and front passenger	■
Alloy wheels	■
– Front: cast 8" x 18" with 245/45 ZR18 tyres	
– Rear: cast 9" x 18" with 255/45 ZR18 tyres	
Anti-lock braking system	■
Computer Active Technology Suspension (including 18 inch wheels/adaptive damping)	■
Cruise control	■
Gearshift interlock	■
Power assisted steering – speed related, variable ratio	■
Spare wheel – space saver	■
5 speed electronic, automatic transmission	■
Stainless steel catalyst exhaust system	■
Stability control	■
Steering column – manually adjustable for tilt and rake	■
Traction control	■
Vacuum assisted 4 wheel disc brakes	■
EXTERIOR	
Automatic headlights	■
Door mirrors	■
– Electrically heated, adjustable and fold back	
– Electrochromic self dimming	
Four circular projector beam halogen headlamps with levelling	■
Front fog lamps	■
Headlamp power wash	■
Heated rear window with timer	■
High mounted stoplight	■
Metallic/micatallic paint	△
Two speed windscreen wipers with variable intermittent mode and programmed wash/wipe	■
INTERIOR	
Sport Interior	Leather seat facings/embossed centre panels with horizontal flutes and Charcoal stitching
	Black carpet
	Charcoal facia/door panels & trim colour door inserts
	Grey stained birds eye maple veneer
	■
Classic Interior	Leather seat facings with 5 vertical flutes and plain leather centre panels
	Colour coordinated carpets
	Colour coordinated facia/door top rolls
	Burr walnut veneer
	△
Air filtration	○
Audio equipment – custom designed audio system with telephone key pad PTY, TA, AVC, RDS and 4 speakers	■
Automatic climate control	■
CD autochanger (6 disc capacity)	■
Cup holder	○
Cold Climate Pack – Heated front seats, Heated front screen	○
Electric front windows with 'one touch open'	■
Electric rear windows, convertible	■
Front seats	■
– electric	
– driver: fore/aft, recline, lumbar adjustment, height adjustment	
– passenger: fore/aft, recline, lumbar adjustment, height adjustment	
Front seats – heated	○
Harman/Kardon premium audio system with power amplifier, 9 speakers (coupé) or 10 speakers (convertible)	○
Heated front windscreen	○
Integrated GSM telephone system	○
Interior electrochromic mirror	■
Ivory leather	○
Memory Pack – Driver's 2 position memory including steering column and door mirrors.	
Electric steering column. Heated front seats	○
Radio frequency remote control central locking and security system with glass breakage intrusion sensing, engine immobiliser and inclination sensing	■
Steering wheel audio, telephone and cruise controls	■
Twin Trip computer with cyclic display on left hand stalk	■
Warning Triangle	■
Wood/leather steering wheel	■
Wood gear knob	■
■ Standard ○ Option △ No cost option	

Note: Individual market feature specifications might vary from this document

XKR - TECHNICAL SPECIFICATIONS AND DIMENSIONS

Engine – AJ-V8 4.0 litre supercharged. 90 degree V8, 32 valve, quad camshaft, all aluminium lightweight unit. Smooth Nikasil-plated cylinder bores, innovative air inlet manifold, close-coupled catalytic convertors, bespoke engine management system.

Transmission – Electronically controlled, intelligent, five-speed automatic transmission featuring wide gear ratio spread, overdrive top gear and advanced low-inertia torque convertor. Maintenance-free design. Gearshift-interlock protection feature. 'J' gate gear selector facilitating automatic and manual selection. Sport and normal selection.

Braking System – Vacuum assisted 4 wheel disc brakes ventilated at front and rear. 4 wheel sensing anti-lock braking system with yaw control. Safety split front and rear circuits with fluid level and anti-lock failure warning. Hand operated mechanical parking brake on rear wheels.

Steering – Rack and pinion variable ratio speed related power assisted steering with 2.8 turns lock to lock. Energy absorbing steering column with tilt and axial adjustment and airbag steering wheel. Turning circle 36 ft 2 in (11.0 m).

Front Suspension – Fully independent with unequal length upper and lower wishbones mounted to fully isolated front crossbeam. Arranged to provide anti-dive effect under braking. Steel coil springs, telescopic two-stage adaptive dampers (CATS) and anti-roll bar.

Rear Suspension – Fully independent double wishbone type system incorporating driveshafts acting as upper links. Wishbones designed for anti-squat and anti-lift under acceleration and braking. Concentric steel coil springs, two-stage adaptive dampers (CATS) and rear anti-roll bar.

Body Construction – All steel monocoque construction with front and rear crumple zones including front crush tubes. Wrap around protective bumpers. Drag co-efficient 0.37.

Paint and Protection – Box sections and closed members hot wax injected. Cathodic electro-coat. Clear over base paint process with automated electrostatic application of primer/sealer and clear coats. Colour matched primer coat. PVC underseal. 65% zinc coated body panels by area.

