

# NEW JAGUAR X-TYPE 2 LITRE V6: CONTENTS

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## NEW JAGUAR X-TYPE 2 LITRE V6: DYNAMIC AND EVEN MORE AFFORDABLE

A new 2 litre V6 engine, Jaguar style, agility and performance, and a price tag of under £20,000 on-the-road – just some of the attributes of the 2 litre X-TYPE which goes on sale in March 2002. Aimed at business and private buyers alike, the Jaguar X-TYPE 2 litre V6 blends craftsmanship and technological innovation with highly affordable cost of ownership.

The X-TYPE 2 litre V6 range comprises three models: the entry-level 2 litre V6 priced at £19,995; the 2 litre Sport at £22,245; and the luxurious 2 litre SE at £22,995 (all prices on-the-road). The new 2 litre models, which share the sporting character, high feature specifications and practical strengths of their 2.5 and 3 litre X-TYPE stablemates, feature a sophisticated 24-valve, four-cam 2 litre Jaguar AJ-V6 engine. The new 2 litre V6, with a capacity of 2.1 litres, develops 157 bhp and delivers spirited performance, competitive fuel economy and low emissions.

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*"Since the X-TYPE went on sale in Summer 2001, it has become established as a credible, stylish alternative to the existing players in the compact premium saloon segment, broadening the appeal of the Jaguar brand. The new 2 litre X-TYPE, with its distinctive style, crafted interior, powerful V6 engine and value-for-money makes the Jaguar brand more accessible than ever. Now, the Jaguar ownership experience can be enjoyed from below £20,000 on-the-road."*

MIKE BEASLEY, MANAGING DIRECTOR

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### **Agile, neutral front drive chassis with class-leading steering precision**

The X-TYPE 2 litre is Jaguar's first front-wheel drive car. At the start of the development programme, Jaguar engineers assessed different driveline configurations. They determined that front wheel drive, with its inherent stability and excellent packaging, provided the optimum solution for the power-to weight ratio of the X-TYPE 2 litre.

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*"With the X-TYPE 2 litre, we set out to create a very neutral, agile and stable chassis which, in common with the refined power of the 2 litre powertrain, remains faithful to Jaguar's marque values. The neutral front-wheel drive chassis was achieved through 'fine tuning' of the chassis, both scientific and subjective, with painstaking attention to detail."*

MIKE CROSS, CHIEF ENGINEER, VEHICLE INTEGRITY

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The 2 litre X-TYPE sets new standards of steering feel and precision in this segment, with ZF variable-ratio power steering and a front suspension design shared with the all-wheel drive 2.5 and 3 litre X-TYPE models. The unique-to-Jaguar suspension, optimised for the 2 litre front-wheel drive configuration, features a double bearing strut that eliminates unwanted torque which otherwise can be transmitted to the steering. Class-leading body stiffness, common to all X-TYPEs, further contributes to the agile handling and superior ride of the new X-TYPE 2 litre V6.

The result is a chassis that is remarkably neutral and agile for experienced drivers while maintaining the ultimate security for the inexperienced.

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*"The 2 litre benefits from the steering system originally engineered for the 2.5 and 3 litre all-wheel drive models. Our engineers optimised the steering for the front-wheel drive chassis to ensure no corruption from either the engine or suspension. The steering feels precisely connected, linear, positive yet relaxed, inspiring driver confidence under all conditions and speeds."*

MIKE CROSS, CHIEF ENGINEER, VEHICLE INTEGRITY

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### **Sporting luxury and advanced safety technology**

The cabin of the X-TYPE 2 litre V6 reflects a contemporary expression of Jaguar design values, while providing generous space for occupants and luggage. Bird's eye maple veneers and soft, luxurious trim materials convey the same feeling of sports luxury and craftsmanship as the 2.5 and 3 litre models. Leather trim is standard on the range topping 2 litre V6 SE.

In common with all X-TYPEs, the 2 litre V6 models incorporate advanced safety technology including frontal, side and side curtain airbags, front passenger occupancy sensing as well as excellent structural integrity. As a result, the X-TYPE range as a whole is expected to achieve a 4-star rating in both the European and North American NCAP tests.

Comprehensive security equipment, including automatic drive-away locking, is complemented by cutting-edge multimedia options such as a touch-screen display employing state-of-the-art fibre-optics technology and voice activation (JaguarVoice).

### **The 'New Jag Generation'**

In common with X-TYPE 2.5 and 3 litre customers, the majority of X-TYPE 2 litre V6 buyers are expected to be new to the Jaguar marque, with an estimated 40 per cent 'trading up' for the first time. The 'New Jag Generation', typically younger than traditional Jaguar owners, want their cars to combine style, individuality and comfort with practicality and versatility.

The extension of the X-TYPE model line continues Jaguar's product-led transformation, which began with the launch of the S-TYPE in 1999. With its combination of affordability and desirability, X-TYPE 2 litre V6 is expected to increase significantly Jaguar's share of the compact premium sports saloon segment. The principle markets for the X-TYPE 2 litre V6 are the UK and Continental Europe, together accounting for some 50 per cent of expected worldwide sales.

### **X-TYPE now in the heart of corporate sales sector**

With the addition of the 2 litre V6 models, X-TYPE can now offer a range of models – 2 litre V6, 2.5 litre V6 and 3 litre V6 – and derivatives to satisfy the needs of the business user, moving Jaguar into the heart of the corporate sales sector.

While the Jaguar marque is already a well-established choice at boardroom level, the X-TYPE – and the 2 litre V6 model in particular – will make a Jaguar available for the first time to many more mainstream company car drivers, especially 'user-choosers' who are able to select from a list of company car options.

Whole-life cost suppliers forecast class-leading residual values for the X-TYPE 2 litre V6, in line with its 2.5 and 3 litre stablemates. Good residuals also mean that Jaguar can offer highly competitive finance rates.

For both corporate and private purchasers, Jaguar Financial Services can offer attractive tailor-made deals, with insurance and vehicle servicing built into the monthly payments so that customers know exactly what they will pay, with no hidden extras.

While running costs and residual values dictate fleet choice lists, company car drivers tend to select vehicles on image, desirability, exclusivity, ride, handling and performance. X-TYPE 2 litre V6 satisfies all these requirements. In addition, with a smaller engine and lower CO<sub>2</sub> emissions (see Technical Specification), X-TYPE 2 litre V6 presents significant tax advantages for UK company car drivers. The car will also be an attractive proposition for the increasing number of British employees who are choosing to opt out of their company car schemes due to changes to benefit-in-kind taxation.

#### **Rich feature specification and value for money**

Jaguar ownership now begins with the X-TYPE 2 litre V6 model at £19,995 on-the-road, fitted with a five-speed manual transmission and a comprehensive feature specification as standard, including:

- Driver's seat electric height adjustment
- 120 watt Alpine audio system
- Air conditioning with pollen filter
- Power, heated door mirrors
- Comprehensive safety equipment including front passenger occupancy sensing, dual-stage frontal airbags, side airbags, and side curtain airbags for front and rear occupants
- Comprehensive, Thatcham-approved security systems
- Front fog lamps
- Bird's eye maple veneers
- Leather, reach- and rake-adjustable steering wheel
- Anti-lock braking with electronic brake distribution
- ZF variable-ratio power-assisted steering
- Electronic Traction Control
- 6.5 x 16 inch 'X-7' alloy wheels with 205/55 R16 tyres

The 2 litre V6 Sport, priced at £22,245 on-the-road, is equipped with uprated suspension, 7 x 17 inch 'X-Sport' alloy wheels with 205/50 R17 tyres, colour-coded exterior, rear spoiler, and distinctive sport interior with cloth/leather sports seats, perforated leather sports steering wheel, sports leather gear knob and grey-stained bird's eye maple veneers.

The 2 litre V6 SE, at £22,995 on-the-road, is specified as standard with an array of luxury features including leather seat trim, eight-way electrically adjustable front seats, cruise control with steering wheel audio controls, automatic climate control and trip computer with message centre.

The extensive options list includes a state-of-the-art touch-screen multimedia system, voice activation (JaguarVoice), DVD-based satellite navigation, xenon headlamps, automatic headlamp activation, rain-sensing wipers,

electrochromatic rear-view mirror, ultrasonic reversing aid, fully automatic climate control (standard on SE models), a dual-band, 8 watt fixed GSM phone and Dynamic Stability Control.

In addition to its roomy, ergonomically designed cabin, the X-TYPE boasts a spacious boot, with a capacity of 452 litres. Luggage capacity can be increased by folding down the rear seat's optional 70/30 split backrest.

### **New 2 litre V6 powertrain**

The new 2 litre 24-valve, four-cam Jaguar V6 engine, with a capacity of 2099cc, is from the same AJ-V6 family which powers the 2.5 and 3 litre X-TYPE and 3 litre S-TYPE. The new engine delivers its maximum power output of 157 bhp DIN (117kW) at 6800 rev/min and has a broad spread of torque, reaching peak torque of 200 Nm (148 lb ft) at 4100 rpm. Advanced features - such as continuously variable cam phasing and four-mode variable geometry intake manifold - deliver spirited performance, excellent mid-range torque, competitive fuel economy and low emissions.

The top speed of the X-TYPE 2 litre V6 is 130 mph (210km/h) with the standard five-speed manual transmission and 127mph (207km/h) with the optional five-speed automatic transmission. The zero-to-sixty sprints are achieved in 8.9 seconds (manual) and 10.4 seconds (automatic).

### **Competitive cost of ownership**

Achieving competitive ownership costs throughout the life of the X-TYPE was a key consideration during the vehicle's development. This philosophy starts with the X-TYPE 2 litre V6's keen prices and high specifications, and continues to be reflected throughout the life of the vehicle in terms of

maintenance costs, insurance ratings, fuel economy and residual values.

Comprehensive, state-of-the-art security systems, fully integrated into the vehicle electronics, exceed the stringent British Insurance Industry's Criteria for Vehicle Security and include engine immobiliser, perimeter alarm, intrusion sensing, deadlocking, two-stage unlocking and automatic drive-away locking. The Category 1, Thatcham-approved security system, together with highly competitive repair costs, result in an insurance grouping of 14E for all 2 litre V6 models.

In common with the rest of the Jaguar range, routine service intervals are at 10,000 mile (16,000 km) or 12 monthly intervals, and Jaguar's commitment to after-sales customer care ensures that the X-TYPE, like every new Jaguar, is backed by one of the most comprehensive warranties and service support packages in the industry, including:

- 3 year/60,000 mile mechanical and electrical warranty (extendable up to 5 years/100,000 miles at extra cost)
- Total Incident Management, backed by the RAC, with 24 hour rescue
- Full Mondial European Emergency Assistance.

The X-TYPE's comprehensive safety systems can also help to reduce ownership costs. An added benefit of the advanced occupancy sensing system is the avoidance of repair costs associated with unnecessary airbag deployments, particularly when the passenger seat is unoccupied and in low-impact collisions when the occupants are belted.

All these factors combine to make the X-TYPE not only a highly desirable and exciting car, but a rational choice for private and corporate customers alike.

Except for the 2 litre engine, front wheel drive system and unique entry-model alloy wheel designs, all equipment listed below is carried over from the 2.5 and 3 litre models.

### Extended model line-up

■ 2 litre V6	■ 2.5 litre V6	
■ 2 litre V6 Sport	■ 2.5 litre V6 Sport	■ 3 litre V6 Sport
■ 2 litre V6 SE	■ 2.5 litre V6 SE	■ 3 litre V6 SE

### Exterior design

- Alloy wheels standard on all models – ‘X-7’ seven-spoke 16 inch on the 2 litre V6 and 2 litre V6 SE; ‘X-Sport’ double five-spoke 17-inch on the 2 litre V6 Sport.
- Sport exterior is distinguished by black window surrounds and colour-coded grille (with grey grille vanes) boot plinth and bumper blades.

### Exterior functionality

- Clear lens head and tail lamps with technology multi-faceted reflector forms, give a distinctive high-tech appearance.
- Optional xenon headlamps, producing more than twice the light of a halogen system.

### Interior design

- One-piece facia and centre console, enhancing the cabin's overall feel of solidity and integrity.
- Bird's eye maple wood veneers.
- Sport is distinguished by grey-stained bird's-eye maple veneers, contoured part-leather sports seats and sports steering wheel with perforated leather trim.

- Leather trimmed seats standard on SE, optional on all other models.

### Multimedia systems

- Optional state-of-the-art, 7-inch touch-screen display system using thin film transistor technology LCD – controls, climate, audio and satellite navigation and (where fitted) TV tuner and phone.
- Touch-screen supplemented by a separate LCD display, showing the time, ambient exterior temperature and climate control temperature settings.
- Multimedia systems use an optical data network for fast, high quality data transfer.
- Optional multi-function satellite navigation system features fast response DVD technology.
- Satellite navigation features 'voice guidance', selectable in nine languages, and, where JaguarVoice is fitted, voice-activated 'name tags' in three languages. Mapping coverage includes 17 major markets.
- Optional JaguarVoice provides voice control of primary audio, telephone and climate control functions and TV tuner (where fitted).
- Voice activation now available for UK and US English, German, Italian, Spanish, French and Australian English.
- Optional 8 Watt Motorola dual-band, fixed GSM phone offers choice of networks and optimum phone performance.

- TV tuner - includes stereo TV audio, widescreen picture options and teletext services.
- 120 Watt Alpine Standard audio system incorporates AM/FM RDS radio, cassette tape player and four door-mounted speakers - radio antenna in rear window.
- Optional single-slot CD player or single-slot Mini Disc (MD) player can be specified on the Standard audio system.
- Optional 180 Watt Premium audio system incorporates a single-slot CD player or single-slot Mini Disc (MD) player, and ten speakers.
- 6-disc CD autochanger is available as an option.
- Trip computer with message centre, (standard feature on SE models)

#### Climate control

- Manual air conditioning with pollen filter is standard on the 2 litre V6 and Sport.
- Fully automatic climate control with LCD temperature display and combined pollen/odour filter (standard on SE, optional on other models.)

#### Seating

- Driver's seat is electrically height-adjustable on all models.
- Eight-way power adjustment of both front seats is standard on SE models.
- Both front seats and all three rear seating positions have manually height-adjustable head restraints.
- A sliding front centre armrest is standard fitment on SE models.

- Heated front seats can be specified as an option.
- The rear bench seat is available with an optional 70/30 split folding backrest.

#### Space and stowage

- Boot capacity of 452 litres.

#### Other interior features

- Electric windows include one-touch up and down operation, with anti-trap.
- Optional electric tilt/slide glass sunroof with integral, sliding sunshade and anti-trap.
- Optional electrochromatic interior rear view mirror automatically darkens to reduce glare.
- Steering column is reach- and rake-adjustable.

#### Powertrain

- Lightweight, 24-valve 2.1 litre AJ-V6 engine is based on the X-TYPE 2.5 litre unit.
- Advanced, 32-bit engine and automatic transmission management systems.
- Continuously variable cam phasing, giving excellent full-load performance, reduced emissions, enhanced idle stability and improved fuel economy.
- Four-mode variable geometry intake manifold optimises volumetric efficiency, resulting in excellent mid-range torque.
- 2099cc litre engine delivers maximum power of 157 bhp DIN (117kW) at 6800 rev/min and peak torque of 200 Nm (148 lb ft) at 4100 rev / min.
- Top speed is 130 mph (210 km/h) with 5-speed manual and 127 mph (205 km/h) with 5-speed automatic.

### Vehicle dynamics

- Best-in-class body stiffness, approx 30% higher than previous class leader, excellent base for X-TYPE's responsive driving dynamics.
- Unique double-bearing front suspension top strut mount reduces damper rod friction, enhancing the performance of the variable-ratio ZF power steering system.
- Front suspension is a twin-tube MacPherson strut design, with a fabricated steel front cross-member and 'L' style lower control arm incorporating a 'hydrabush' for added dynamic performance and isolation.
- Multi-link torsion control link system at the rear – allows each wheel to react independently to improve handling and reduce impact harshness.
- Four-channel anti-lock brakes with electronic brake-force distribution (EBD) improves control and stability in adverse conditions.
- Traction control is standard on all models.
- Chassis components tuned for optimum performance with the 2 litre engine and driveline.
- Optional Dynamic Stability Control (DSC) enhances stability by linking with anti-lock and steering to control vehicle yaw and help prevent oversteer and understeer.
- Cruise control with steering wheel audio controls is standard on SE models and offered as an option on others.

### Security

- The following security systems are provided as standard on all X-TYPE models:
  - o Engine immobilisation system
  - o Integrated key transmitter
  - o Perimeter sensing of doors, bonnet and boot
  - o Intrusion sensing via ultrasonic movement sensors
  - o Integrated LED
  - o Global closing of all electric windows and, if fitted, sunroof
  - o Central locking
  - o Double locking (deadlocking)
  - o Panic alarm
  - o Two-stage unlocking
  - o Security-coded audio system
  - o Tamper-resistant odometer
  - o Drive-away locking, whereby the doors lock automatically on driving away
  - o 'Smart' locking, which helps to prevent locking the key inside the car
  - o Gearshift interlock system (automatic models)
- Optional security systems:
  - o Inclination (tilt) sensing
  - o 'Tracker' vehicle tracing system – offered as an accessory

### Safety

- The X-TYPE range as a whole is engineered to achieve a 4-star rating in both the European and North American NCAP tests.
- Active safety features include:
  - o Anti-lock braking system with electronic brake-force distribution (EBD)
  - o Traction control
  - o Dynamic Stability Control (DSC) optional
  - o Automatic headlamp activation optional
  - o Rain-sensing windscreen wipers optional
  - o Reverse parking aid optional
  - o Voice activated controls optional
  - o DVD-based satellite navigation system optional



- The following passive safety features are fitted as standard:
  - Dual-stage driver and front passenger frontal airbags
  - Driver's seat track position sensor
  - Front passenger seat weight sensor
  - Side airbags for driver and front passenger
  - Side curtain airbags for front and rear occupants
  - Load-limiting and pre-tensioning front seat belts
  - Driver and front passenger seat belt height adjustment
  - Three three-point rear seat belts and adjustable head restraints
  - De-coupling brake pedal mechanism
  - Anti-burst door latches
  - Excellent structural integrity
  - Intrusion beams fitted to front and rear doors
  - Energy-absorbing head impact zones
  - Deformable plastic fuel tank

### Cost of Ownership

- 3 year / 60,000 mile mechanical and electrical warranty (extendable up to 5 years / 100,000 miles at extra cost) including RAC-backed Total Incident Management service
- 3 year, unlimited mileage paint surface warranty
- 6 year, unlimited mileage corrosion (perforation) warranty
- 10,000 mile (16,000km) or 12 monthly service intervals
- 14E insurance group

## VEHICLE DYNAMICS

### Agile, neutral front-wheel drive chassis with class-leading steering precision

Inherent stability and excellent packaging make front wheel drive the natural choice for cars with the power-to weight ratio of the X-TYPE 2 litre. Following a comprehensive programme of analysis and development, Jaguar engineers created a chassis that is remarkably neutral and agile for experienced drivers and yet maintains the ultimate security for the inexperienced.

The 2 litre engineering programme focused on steering precision and feel, a traditional weakness of front wheel drive cars, to ensure clarity and response is maintained, even under hard driving. Basing the design of the steering system on that of the all-wheel drive 2.5 litre X-TYPE, the engineers undertook Taguchi based design experiments, using complex simulations, to understand fully the mechanisms of steering under power. This led to a several key design features:

- Equal length and equal stiffness halfshafts.
- Geometry calculated to ensure halfshafts are perfectly aligned under torque.
- Special CV joints at the outboard ends of the halfshafts, to reduce friction.
- Unique strut top mount to eliminate strut friction under torque (in common with the 2.5/3 litre models)

Additionally, Jaguar engineers chose the ZF steering system, utilising a variable-ratio rack with an on-centre ratio of 16.8 to 1 for relaxed, stable high speed cruising, rising progressively to a maximum of 9 to 1 on lock for agile and responsive handling, setting new standards of steering feel and precision for its segment.

An inner bearing, designed to reduce damper rod friction within the struts for the all-wheel drive X-TYPE, and still unique to Jaguar, eliminates unwanted torque in the front-wheel drive model. The bearing allows the strut piston to rotate freely, even under the effects of engine torque. Steering feel and feedback are further enhanced by the same 'S-profile' springs which were specially designed to reduce strut rod friction in the all-wheel drive X-TYPE.

Chassis components such as springs, dampers, bushes and anti-roll bars are re-tuned for optimum performance. In addition, specifically for the X-TYPE 2 litre, the development team designed a completely new piston shim stack – the piston and shim configuration within the shock absorber – to achieve the best possible body control and handling characteristics.

### Traction control as standard, Dynamic Stability Control an option

Electronic traction control is fitted as standard on X-TYPE 2 litre V6. Under acceleration on slippery road surfaces, the traction control system, which is linked to the anti-lock brakes, senses loss of adhesion at the front wheels and prevents the wheels from spinning. It can apply each front brake independently and, if necessary, reduce engine torque to help the driver retain vehicle control. The advanced, four-channel anti-lock braking system includes electronic brake-force distribution (EBD) for improved control and stability in adverse conditions.

Traction control can be switched off where use is not recommended; for example, where snow chains are fitted, or when trying to get out of deep, soft snow and sand. The system is activated automatically when the ignition is switched on.

Optional Dynamic Stability Control (DSC) enhances vehicle stability and control by linking with the anti-lock brakes, engine torque control and steering systems to help control vehicle yaw (oversteer and understeer).

Even when DSC is switched off (via a switch on the console), by pressing the switch on the console, the system still senses vehicle yaw and when necessary will automatically re-engage in an emergency situation as soon as the brakes are applied.

### **Class-leading body stiffness**

Agile handling and superior ride are further enhanced by the X-TYPE's ultra-stiff body. The body structure's class-leading torsional stiffness – which is approximately 30 per cent higher than the previous class leader – delivers major benefits in terms of strength, durability, robustness and refinement.

The body provides an exceptionally rigid base for the precisely tuned suspension, including the fully independent torsion control link system at the rear, which confers a high degree of inherent stability. Body stiffness also contributes to a smooth, stable ride by providing a rigid mounting for suspension components such as springs, dampers and bushes. Thanks to this, the components work to optimum efficiency, minimising noise and vibration by isolating the effects of road irregularities with little or no transfer to the body.

### **Alloy wheels as standard**

Unique wheel designs provide a distinctive finishing touch to the X-TYPE 2 litre V6. The 2 litre V6 and 2 litre SE are fitted with 'X-7' seven-spoke 6.5 x 16 inch alloy wheels, and the Sport model has distinctive 'X-Sport' double five-spoke 7 x 17 inch alloys.

Tyre fitment is the same as the 2.5 and 3 litre models (205/55 R16), except for the 2 litre V6 Sport which is shod with 205/50 R17 tyres for optimum rolling resistance, benefiting vehicle performance, tyre wear and fuel economy.

## POWERTRAIN

### Refined, proven AJ-V6 power

Developed at Jaguar's Engineering Centre at Whitley, Coventry, the new 2 litre, all-aluminium AJ-V6 engine belongs to the same family as the 2.5 and 3 litre X-TYPE engines, which themselves were based on the proven S-TYPE 3 litre unit. The 2 litre V6 engine employs advanced technology and design innovation to deliver spirited performance with competitive fuel economy and low emissions. The 2 litre V6 unit delivers maximum power output of 157 bhp DIN (117kW) at 6800 rev/min and has a broad spread of torque, reaching peak torque of 200 Nm (148 lb ft) at 4100 rpm.

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*" At the start of the programme, we considered engines of different configurations in determining the best solution for a Jaguar 2 litre. We quickly concluded that the 2.1 litre V6 would deliver the best mix of spirited, accessible performance, driveability and refinement expected of a Jaguar engine in this segment of the market."*

RON LEE, CHIEF ENGINEER, POWERTRAIN ENGINEERING

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### Derived from the 2.5 AJ-V6 but with shorter stroke

The X-TYPE 2 litre V6's engine is virtually identical to the 2.5 litre unit, having the same bore (81.6 mm) but a shorter stroke (66.8 as opposed to 79.5 mm). The water-cooled, 60-degree V6 engine has a forged steel crankshaft with four main bearings, two overhead chain-driven cast iron camshafts per bank, and four valves per cylinder, activated via direct-acting, mechanical bucket tappets.

The engine features a four-mode, variable geometry intake manifold to optimise volumetric efficiency.

### Continuously variable cam phasing

The engine also incorporates a continuously variable intake cam phasing system which adjusts the timing of inlet valve opening and closing, depending on engine speed, load and oil temperature. Variable cam phasing allows engine performance to be optimised, resulting in excellent mid-range torque, improved full-load performance, reduced emissions, enhanced idle stability and improved fuel economy.

### Lightweight, space-efficient

To aid fuel economy, engine weight is minimised due to the use of aluminium and magnesium components. These include lightweight powder-sintered and fracture-split connecting rods and aluminium pistons.

At the same time, the engine is packaged extremely space-efficiently. The engine is mounted transversely, which plays an important part in overall package optimisation.

The 13.5 gallon (61.5 litre) fuel tank is moulded from 8-layer high-density polyethylene (HDPE), a lightweight material that can be formed into complex shapes, thus aiding both fuel economy and space-efficiency. The shape and location of the fuel tank – below the rear seat pan and beside the exhaust assembly – also plays a part in enabling the X-TYPE to boast the biggest boot capacity of any Jaguar.

### Key design features of the 2 litre AJ-V6 engine - summary

- The variable cam phasing system, in conjunction with the Denso engine management system, improves fuel economy and reduces emissions under all operating temperatures and conditions.
- Cold-start hydrocarbon emissions are minimised due to rapid engine warm-up.
- The air cleaner and inlet ducts are carefully optimised to eliminate intake boom, while enhancing the engine's 'growl' under certain accelerating conditions.
- Rigid, extensively ribbed, heat-treated aluminium cylinder block, reinforced die-cast main bearing bedplate and a structural aluminium oil pan, braced to the transmission bell housing, for a lightweight, highly rigid structure.
- The cylinder block is cast by the Cosworth-patented, precision sand casting process - the same process used to cast the AJ-V8 cylinder heads
- Patented precision low-volume/high velocity cooled cylinder block and heads for high fuel efficiency and low emissions
- Cast-in, thin-wall iron cylinder liners
- Low pressure cast, heat-treated 319 grade aluminium cylinder heads
- Nodular cast iron, high silicon / molybdenum exhaust manifolds on the rear bank and fabricated steel on the front
- 4-valve combustion system
- Direct acting mechanical bucket valvegear with lightweight aluminium tappets and lightweight valves
- Continuously variable intake cam phasing with optimised cam profiles for excellent performance, light load stability, fuel economy and emissions
- Isolated magnesium cam covers for low radiated valvetrain noise
- High compression ratio for excellent power and fuel efficiency
- Lightweight aluminium pistons with graphite/molybdenum low friction coating and 4mm top ring land
- Lightweight, powder-sintered and fracture-split connecting rods
- Coil-on-plug ignition system, with individual-cylinder knock control
- Fine wire, platinum tipped spark plugs for extended durability
- Rigid 60-degree twist-forged, steel crankshaft with fully machined balance weights, undercut rolled fillets and heat treated pins and journals
- Low profile, fine finished "Morse" silent dual chain drive with one hydraulic tensioner for each chain
- Direct mounted engine ancillaries for excellent NVH performance
- Durable, high and low temperature tolerant, 6-rib, Kevlar reinforced, serpentine front end auxiliary drive belt with automatic tensioner
- Pressure die-cast front engine cover, optimised for NVH
- Four-mode, variable geometry intake manifold system with dual-intake tuning valves, optimises volumetric efficiency with excellent torque across a wide speed range
- Nodular, cast iron camshafts, acting on aluminium tappets and steel shims

### Transmissions

X-TYPE 2 litre V6 comes with the same 5-speed manual transmission as the 2.5 and 3 litre models as standard, or the same electronic 5-speed automatic transmission as an option.

**Getrag 5-speed manual**

The Getrag manual transmission features a cable-shift mechanism which provides efficient, precise gear engagement, enhancing the car's sporty feel, and eliminates harsh engine load changes via the shift lever, reducing powertrain vibration.

Gear ratios (third, fourth and fifth) have been modified compared to the 2.5 and 3 litre, giving optimum acceleration and performance with the 2 litre V6 engine. With a final drive ratio of 3.8:1, the manual transmission achieves the optimum combination of performance, fuel economy and refinement.

The self-adjusting, 240 mm diameter clutch, equipped with a two-mass flywheel for vibration insulation, helps extend the service life of the transmission to 150,000 miles (240,000 km). All major components and casings are of lightweight, die-cast aluminium, so that the clutch system weighs just 17.9 kg and the overall transmission weight is only 47.7 kg, with a fill-for-life oil capacity of 2 litres.

The gear shift knob features the distinctive Jaguar 'growler' emblem at the centre, and has a ring-pull mechanism for reverse gear.

**Jatco 5-speed electronic automatic**

Fully electronic 5-speed automatic transmission, available as an option on all models, is provided by the Jatco FPD transverse automatic gearbox. The gearbox features a wide gear ratio spread, with a low first gear for optimum off-the-line acceleration, while the overdrive fifth gear helps to deliver excellent fuel economy and refined motorway cruising.

The final drive ratio of 4.15:1 combines performance and fuel economy, while pre-programmed software strategies are designed into the transmission system, for optimum performance under various conditions. For example, on uphill gradients, the transmission adapts the shift pattern to make better use of engine power and aid engine cooling; and when either optional cruise control or optional Dynamic Stability Control (DSC) are activated, the transmission selects a shift pattern to suit.

The electronic transmission control module co-ordinates engine control information, modifying the shift schedule to provide smoother shifting during acceleration and deceleration.

A low-inertia, slip-controlled lock-up torque converter features a single-friction face clutch with torsional damper to achieve a near-locked condition at low speed in high gears, enhancing fuel economy and refinement. The clutch disengages automatically before a downshift, for smooth power delivery.

The two-piece, die-cast aluminium transmission casing is extremely rigid, contributing to vehicle refinement. The transmission is a 'fill-for-life' unit, benefiting cost of ownership.

### J-gate gear selector

The unique Jaguar J-gate automatic transmission gear selector, designed to accommodate different driving styles, was refined with the launch of the X-TYPE for even smoother operation and lighter loads.

On the right-hand side of the selector gate, the driver is presented with the traditional 'PRND' layout, in which the 'D' position provides fully automatic availability of all five gears. When driving in gear position 'D' with fifth gear engaged, the gear selector can be shifted sideways across the gate to position '4', when the transmission will shift down to fourth and the driver may shift between fourth, third and second gear positions. The transmission continues to operate automatically but will not engage gears higher than the one selected.

A 'sport' mode switch adjacent to the J-gate enables the driver to select either normal, N, or sport, S, modes. When sport mode is selected, the gear shift points are extended to make full use of the engine's power.

## TELEMATICS

### Class-leading telematics systems

The class-leading telematics and communications technologies, introduced on X-TYPE 2.5 and 3 litre at launch, are also available as options on the new 2 litre V6 model. These include a notable 'industry first' for cars in this class: a 7-inch (178 mm) widescreen LCD touch-screen display, employing thin film transistor technology (TFT), providing finger-tip control of climate, audio and navigation systems, and (where fitted) television tuner and dual-band, fixed GSM telephone. This exceptionally high level of integration is facilitated by fibre optics to provide fast, high-quality data transfer.

### JaguarVoice - more languages

The JaguarVoice voice activation system, a world-first for Jaguar when launched on S-TYPE in 1999, can also be specified, to provide voice control of primary functions of the audio, telephone and climate control systems, as well as - for the first time - the satellite navigation system and TV tuner, where fitted. Maintaining Jaguar's lead in the field of voice activation, this system is now available in French and Spanish on all X-TYPE models, as well as the languages that were available at launch: German, Italian and English, including North American and Australian accents.

### DVD Satellite Navigation

A multi-function satellite navigation system features DVD technology, enabling approximately eight times the amount of information to be stored on one disc compared to conventional CD-ROM based systems and delivering highly accurate information, virtually instantaneously. The navigation system features

'voice guidance', selectable in nine languages and, where optional voice activation is fitted, voice-activated 'name tags' in three languages. Navigation mapping coverage includes 17 major markets.

A trip computer with message centre – standard fitment on SE models – displays detailed journey data as well as information on the functioning of a wide range of vehicle systems, including security and engine diagnostics.

For enhanced in-car entertainment, a single-slot CD player or single-slot Mini Disc (MD) player is now standard on the 180 Watt Premium audio system, and can be specified as an option on the 120 Watt Standard system. A 6-disc CD autochanger is available as an option.



## MANUFACTURING

### State-of-the-art manufacturing

Along with the 2.5 and 3 litre models, the X-TYPE 2 litre V6 is built at Jaguar's totally refurbished Halewood plant on Merseyside (England). Leading up to the launch of the X-TYPE, £300 million was invested in new manufacturing facilities, including totally new body construction and trim lines, in one of the most ambitious plant transformations ever undertaken within the motor industry.

At the same time, new working practices were implemented to create a highly efficient, quality-focused 'lean manufacturing' environment, suitable for producing Jaguar cars.

Around 3,000 jobs have been safeguarded and an additional 500 created locally, with the establishment of a 65-acre supplier park alongside the plant, to feed components and sub-assemblies to the production line on a just-in-time basis.

Halewood provides Jaguar, for the first time, with all major production facilities on a single site. The addition of the new supplier park - another first for Jaguar - improves production efficiency still further.

For improved outbound logistics, a new rail terminal has been built, allowing 90 per cent of cars destined for export markets to leave the plant by rail.

## NEW JAGUAR X-TYPE 2 LITRE V6: STANDARD AND OPTIONAL EQUIPMENT

### Standard Equipment

#### X-TYPE 2 litre V6

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The X-TYPE 2 litre V6, priced at £19,995 on-the-road, is equipped with a generous range of standard-fitment features, including:

- 2099cc AJ-V6 engine
- Electronic Traction Control
- Anti-lock braking with electronic brake distribution
- ZF variable-ratio power assisted steering
- 6.5 x 16 inch 'X-7' seven-spoke alloy wheels with 205/55 R16 tyres
- Driver's seat electric height adjustment
- 120 Watt Alpine audio system
- Air conditioning with pollen filter
- Front centre armrest with stowage
- Power heated door mirrors
- Front passenger occupancy sensing system
- Dual-stage driver and front passenger frontal airbags
- Side airbags for driver and front passenger
- Side curtain airbags for front and rear occupants
- Comprehensive, Thatcham-approved security system
- Front fog lamps
- Chrome window surrounds and exterior trim
- Bird's eye maple veneers
- Leather, reach- and rake-adjustable steering wheel
- Moulded gear knob (wood gear knob on automatic)

### X-TYPE 2 litre V6 Sport

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In addition to the equipment listed above, the X-TYPE 2 litre V6 Sport, priced at £22,245 on-the-road, is equipped as standard with:

- Specially uprated suspension system
- 7 x 17 inch 'X-Sport' double five-spoke alloy wheels with 205/50 R17 tyres
- De-chromed exterior with black window surrounds, colour-coded grille with grey grille vanes and colour-coded boot plinth and bumper blades
- Rear spoiler
- Distinctive sport interior with cloth/leather sports seats (full leather optional), perforated leather sports steering wheel and grey-stained maple veneers
- Sports leather gear knob (grey wood gear knob on automatic)
- Rear centre armrest with two cupholders

**Standard Equipment****X-TYPE 2 litre V6 SE**

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In addition to the standard equipment of the X-TYPE 2 litre V6, the X-TYPE 2 litre V6 SE, at £22,995 on-the-road, is specified as standard with an array of luxury features including:

- Leather seat trim
- Eight-way electrically adjustable front seats
- Cruise control with steering wheel audio controls
- Automatic climate control with pollen and odour filter
- Trip computer with message centre
- Front centre sliding armrest with stowage
- Rear centre armrest with two cupholders
- Leather gear knob (wood gear knob on automatic)
- Wood door trim, front and rear
- Chrome speaker surrounds
- Front puddle lamps

**Optional Equipment**

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- Touch-screen multimedia system
- JaguarVoice voice activation system
- DVD-based satellite navigation system
- Dual-band, fixed GSM phone
- 180 Watt Premium audio system
- Single-slot CD player
- Single-slot MD player
- 6-disc CD autochanger
- Fully automatic climate control – standard on SE models
- Dynamic Stability Control (DSC)
- Cruise control with steering wheel audio controls
- Automatic transmission
- Xenon headlamps
- Automatic headlamp activation
- Rain-sensing wipers
- Electrochromatic rear-view mirror
- Ultrasonic reversing aid
- Wood/leather steering wheel
- Lumbar support
- Ski hatch

STANDARD AND OPTIONAL EQUIPMENT		V6 2 LITRE	V6 SE 2 LITRE	SPORT 2 LITRE
<b>TRANSMISSION/SUSPENSION</b>				
Cruise control	- with steering wheel audio and telephone controls	○	■	○
Drivetrain:	- Traction Control (Front Wheel Drive)	■	■	■
Suspension:	- touring	■	■	□
	- sport	□	□	■
Transmission:	- 5-speed manual with moulded gearknob	■	□	□
	- 5-speed manual with leather gearknob	□	■	■
	- 5-speed electronic automatic with wooden gearknob to match veneer	○	○	○
<b>EXTERIOR</b>				
Chrome finish grille surround, boot plinth, bumper blades and window surrounds		■	■	□
Body coloured grille surround, boot plinth, bumper blades and de-chromed window surrounds		□	□	■
Door handles	- body coloured	■	■	■
Exterior mirrors:	- power-adjustable, heated	■	■	■
	- power fold-back	○	○	○
Garage door opener		○	○	○
Headlights:	- manual headlight levelling	■	■	■
	- headlight powerwash	○	○	○
	- xenon headlights with automatic headlight levelling and headlight powerwash	○	○	○
Heated front windscreen		○	○	○
Heated rear window with timer		■	■	■
Metallic paint		○	○	○
Rear spoiler		□	□	■
Screenwasher nozzles	- heated	■	■	■
Sunroof	- glass, electric with tilt, slide and anti-trap	○	○	○
Wheels:	- cast alloy 6.5" x 16" X-7	■	■	□
	- cast alloy 6.5" x 16" X-10	○	○	□
	- cast alloy 6.5" x 16" X-5	○	○	□
	- cast alloy 7" x 17" X-Sport	○	○	■
	- spare full size steel 6.5" x 16"	○	○	□
	- spare full size alloy Sport 7" x 17"	(○)	(○)	○
	- spare space saver	■	■	■
<b>INTERIOR</b>				
Air conditioning:	- manual with pollen filter	■	□	■
	- automatic climate control with pollen and odour filter and outside temperature display	○	■	○
Boot fully trimmed		■	■	■
Centre armrest:	- front, with stowage	■	□	■
	- front, sliding with stowage	○	■	○
	- rear with 2 cupholders	○	■	■
Digital clock		■	■	■
Duotone horn		■	■	■
Electric windows with one touch open and close and anti-trap:				
	- front	■	■	■
	- rear	○	■	○
First aid kit		○	○	○
Footwell mats	- carpet, front and rear	○	○	○
Front puddle lights		□	■	□
Glove compartment	- illuminated, lockable, with stowage net	■	■	■
Headrests	- adjustable for height and angle	■	■	■
Lights-on warning		■	■	■
Seats, front:	- manually-adjustable with drivers seat electric height rise (2-way)	■	□	□
	- sport - manually-adjustable with electric drivers height rise and driver/passenger electric recline (4-way driver/2-way passenger)	□	□	■
	- 8-way electrically-adjustable driver and passenger seat	○	■	○
	- 10-way electrically-adjustable front seats (including lumbar support)	○	○	○
	- heated (2 stage variable)	○	○	○
Seats, rear:	- fold-down rear seat (split 70/30) with rear centre armrest and 2 cupholders	○	■	○
	- rear head restraints x 3	■	■	■
Seats, trim:	- cloth	■	□	□
	- leather	○	■	□
	- cloth/leather sport	□	□	■
	- leather sport (perforated)	□	□	○
	- Ivory leather (only available with leather seats or leather sport seats)	(○)	○	(○)
Ski hatch	- bag and rear armrest	○	○	○
Speedometer/rev counter display	- with fuel gauge, coolant gauge and mileage and trip counter	■	■	■

■ Standard ○ Optional at extra cost △ Optional at no extra cost □ Not available (○) Linked option

NB. No engine capacity badge available on 2 litre models.

STANDARD AND OPTIONAL EQUIPMENT CONTINUED		V6 2 LITRE	V6 SE 2 LITRE	SPORT 2 LITRE
<b>INTERIOR CONTINUED</b>				
Steering column	- manually-adjustable for tilt and reach	■	■	■
Steering wheel:	- leather	■	■	□
	- sport leather (perforated)	□	□	■
	- birds eye maple wood and leather steering wheel (Not available in grey stained, birds eye maple)	○	○	(○)
Storage space	- doors, front and rear	■	■	■
Stowage pockets	- back of front seats	■	■	■
Sunblind	- rear, manual (not available with premium sound system)	○	○	○
Sunvisors	- illuminated with vanity mirror, driver and front passenger	■	■	■
Wood veneer:	- birds eye maple	■	■	△
	- grey stained, birds eye maple	□	□	■
	- birds eye maple door trims	□	■	□
<b>COMMUNICATIONS</b>				
Audio equipment:	- custom stereo cassette sound system with 4 twin-cone speakers, EON RDS, PTY, TA and automatic volume control, CD compatible	■	■	■
	- single slot CD	○	○	○
	- single slot Mini Disc	○	○	○
	- CD autochanger (6-disc capacity)	○	○	○
	- chrome speaker surrounds	□	■	□
	- premium sound system with 10 speakers and active sub-woofer (Requires at least one digital audio source from list above)	(○)	(○)	(○)
JaguarVoice	- audio, telephone and automatic climate control (only available with steering wheel audio and telephone controls and trip computer with message centre)	(○)	○	(○)
Navigation system (2)	- touch screen incorporating controls for audio, automatic climate control and telephone (if fitted) (only available with automatic climate control)	(○)	○	(○)
Steering wheel audio and telephone controls		○	■	○
Telephone	- fixed dual band (only available with front, sliding centre armrest)	(○)	○	(○)
Trip computer	- with message centre	○	■	○
TV tuner (only available with navigation system)		(○)	(○)	(○)
<b>SAFETY</b>				
Airbags:	- front and side, driver and front passenger	■	■	■
	- curtain, front and rear	■	■	■
	- occupancy sensing	■	■	■
Anti-lock braking system		■	■	■
Brakes:	- disc brakes, front, inner vented	■	■	■
	- disc brakes, rear	■	■	■
Dynamic Stability Control		○	○	○
Electrochromic rear-view mirror		○	○	○
Front fog lights		■	■	■
High-level stop light		■	■	■
Impact protection		- provided by wrap around bumpers and side strips	■	■
Power-assisted steering:		- variable-ratio	■	■
Reverse park control		○	○	○
Safety bodyshell		- front and rear deformation zones, door reinforcement, bumpers that regenerate to original shape following impacts up to 2.5mph	■	■
Seat belts:	- front inertia-reel seat belts with pyrotechnic belt latch tensioner and belt force limiter	■	■	■
	- front manual seat belt height adjustment	■	■	■
	- rear three-point seat belts for all passengers, including third headrest	■	■	■
Warning triangle		○	○	○
<b>SECURITY</b>				
		- central/double locking and perimeter security system with 2-stage unlock and remote control	■	■
		- inclination-sensing	○	○
		- intrusion-sensing	■	■
<b>OPTIONAL PACKS</b>				
Auto Clear View pack	- rain-sensing wipers, electrochromic rear-view mirror and automatic headlights	○	○	○
Cold Climate pack	- headlight powerwash, heated front windscreen and heated front seats	○	○	○
Cold Climate Xenon pack	- headlight powerwash, heated front windscreen, heated front seats and xenon headlights with automatic headlight levelling	○	○	○
Rear Seat Convenience pack	- ski hatch and fold down rear seat (split 70/30) with rear centre armrest and 2 cup holders	○	□	□
JaguarVoice and Cruise Control pack	- JaguarVoice, cruise control, trip computer with message centre and steering wheel audio and telephone controls	○	□	○

■ Standard ○ Optional at extra cost △ Optional at no extra cost □ Not available (○) Linked option

NB. No engine capacity badge available on 2 litre models.

(1) Limited coverage in Northern Ireland, Channel Isles and Isle of Man.

(2) Country mapping DVDs are available for: Europe; Austria, Belgium, Denmark, France, Germany, Italy, Luxembourg, Netherlands, Portugal\*, Spain\*, Sweden, Switzerland, and the United Kingdom (except Northern Ireland). Australia, Japan and North America (Canada\*).

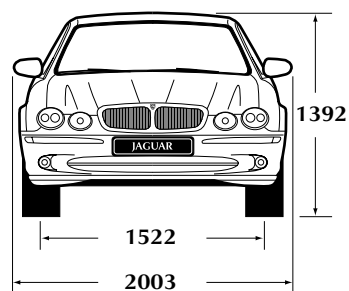
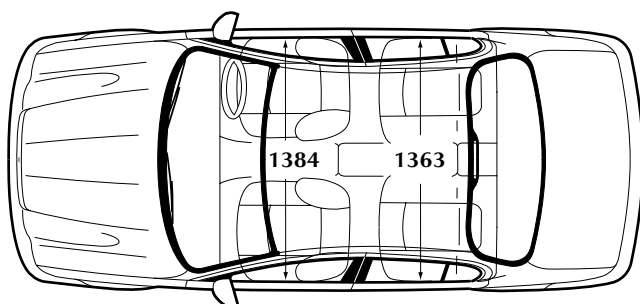
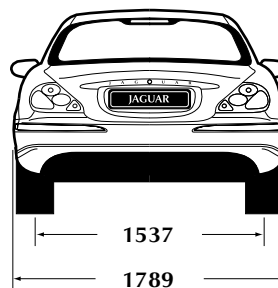
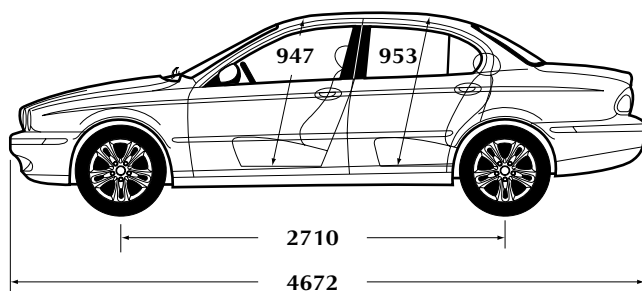
\* limited coverage

# NEW JAGUAR X-TYPE 2 LITRE V6: TECHNICAL SPECIFICATIONS

## V6 2 LITRE

ENGINE		
Engine layout	Transverse V6	
Construction	Aluminium block/head	
Cylinders/valves per cylinder	6/4	
Bore/stroke - mm	81.6/66.8	
Capacity - cc	2099	
Maximum power - bhp DIN (kW)	157 (117)	
EEC PS (kW)	156 (114.6)	
@ rev/min	@ 6800	
Maximum torque - lb.ft. DIN (Nm)	148 (200)	
EEC lb.ft. (Nm)	145 (196)	
@ rev/min	@ 4100	
Compression ratio :1	10.75	
Transmission	5-speed manual	5-speed automatic
PERFORMANCE (MANUFACTURER'S ESTIMATES)		
Acceleration 0-60 mph (0-100 km/h) - sec	8.9 (9.4)	10.4 (10.8)
Top speed - mph (km/h)	130 (210)	127 (205)
FUEL CONSUMPTION (1)		
Urban - mpg (l/100km)	22.2 (12.7)	19.8 (14.3)
Extra urban - mpg (l/100km)	39.6 (7.1)	37.9 (7.4)
Combined - mpg (l/100km)	30.7 (9.2)	28.4 (10.0)
Carbon dioxide emissions g/km	219	239
Tank capacity - gals (l) approx. (incl. 5 ltr reserve)	13.5 (61.5)	13.5 (61.5)
WEIGHT (2)		
Kerb weight - lb (kg)	3197 (1450)	3274 (1485)
Gross vehicle weight - lb (kg)	4277 (1940)	4354 (1975)
Gross vehicle weight - towing - lb (kg)	4465 (2025)	4542 (2060)
Permitted roof load - lb (kg)	165 (75)	
Permitted trailer load, unbraked - lb (kg)	1654 (750)	
Permitted trailer load, braked - lb (kg)	3307 (1500)	
Permitted towbar download - lb (kg)	132 (60)	
WHEELS/TYRES (3)		
Wheel type	X-7 Alloy - 5 stud 6.5" x 16"	
Tyre size	16" 205/55 R16	
Turning circle - ft. (m)	35 ft 7" (10.84)	
Boot volume - cu.ft. (VDA l)	16 (452)	

- (1) The fuel economy figures were obtained in tests carried out in line with the Passenger Car Fuel Consumption Amendment Order 1996 (Reflecting EU Directive 1999/100 EEC fuel consumption test cycle). These figures were correct at the time of going to press.
- (2) Please consult your dealer for details of changes associated with option fitment. Kerb weights reflect vehicles to standard specifications. Optional extras increase weight.
- (3) X-Sport 7.0" x 17" alloy wheel available as an option on V6 and SE models and standard on Sport models.



Dimensions shown in mm.

NOTE: The dimension details refer to a nominal car but may vary marginally from car to car due to design and production tolerances. The nominal condition has been used wherever possible. Please consult your dealer for details of changes associated with option fitment.

MODEL	LIST	VAT	RETAIL	ON THE ROAD
X-TYPE 2L V6	£16,417.00	£2,872.98	£19,290.00	£19,995.00
X-TYPE 2L V6 SPORT	£18,332.00	£3,208.09	£21,540.00	£22,245.00
X-TYPE 2L V6 SE	£18,970.00	£3,319.79	£22,290.00	£22,995.00

### PRICE AND SPECIFICATION

All prices are based on manufacturer's recommended prices.

List Prices apply throughout Great Britain, Northern Ireland, the Channel Islands and the Isle of Man. "On the road prices" are included for the benefit of purchasers in Great Britain and Northern Ireland only and are calculated using Retail Prices from this price list and adding 12 months Vehicle Excise Duty, delivery to the Jaguar Dealer premises, first registration fee and an estimated price for number plates and a full tank of fuel.

All Jaguar vehicles first registered after 01 March 2001 will attract Vehicle Excise Duty at £155 per annum (Band D Petrol).

Prices and specifications are subject to change without notice.

Factory fitted options indicated on the original order will be supplied at extra cost.

The prices are applicable to vehicles sold for permanent use in the UK.

### WARRANTY

Three year (60,000 miles)\*

Vehicles included in this price list are covered by Jaguar Total Care which consists of the above warranty together with the following:

Emergency Assistance via RAC Motoring Services in the UK for three years

Mondial Assistance in Europe for three years

Paint Surface Warranty for three years

Corrosion (Perforation) Warranty for six years

Optional extended warranties available:

1. 4th year (100,000 miles)\*
2. 4th and 5th year (100,000 miles)\*
3. 5th year (100,000 miles)\* extension to 4th year

\*Whichever occurs first after new vehicle purchase date. Please consult your Jaguar dealer for full details.