

JAGUAR XJ12







The Jaguar V12 engine not only enhances the performance and quietness of the car but also, through the use of the very latest machine tools, achieves a volume of production which enables Jaguar to offer it in cars at a very competitive price.

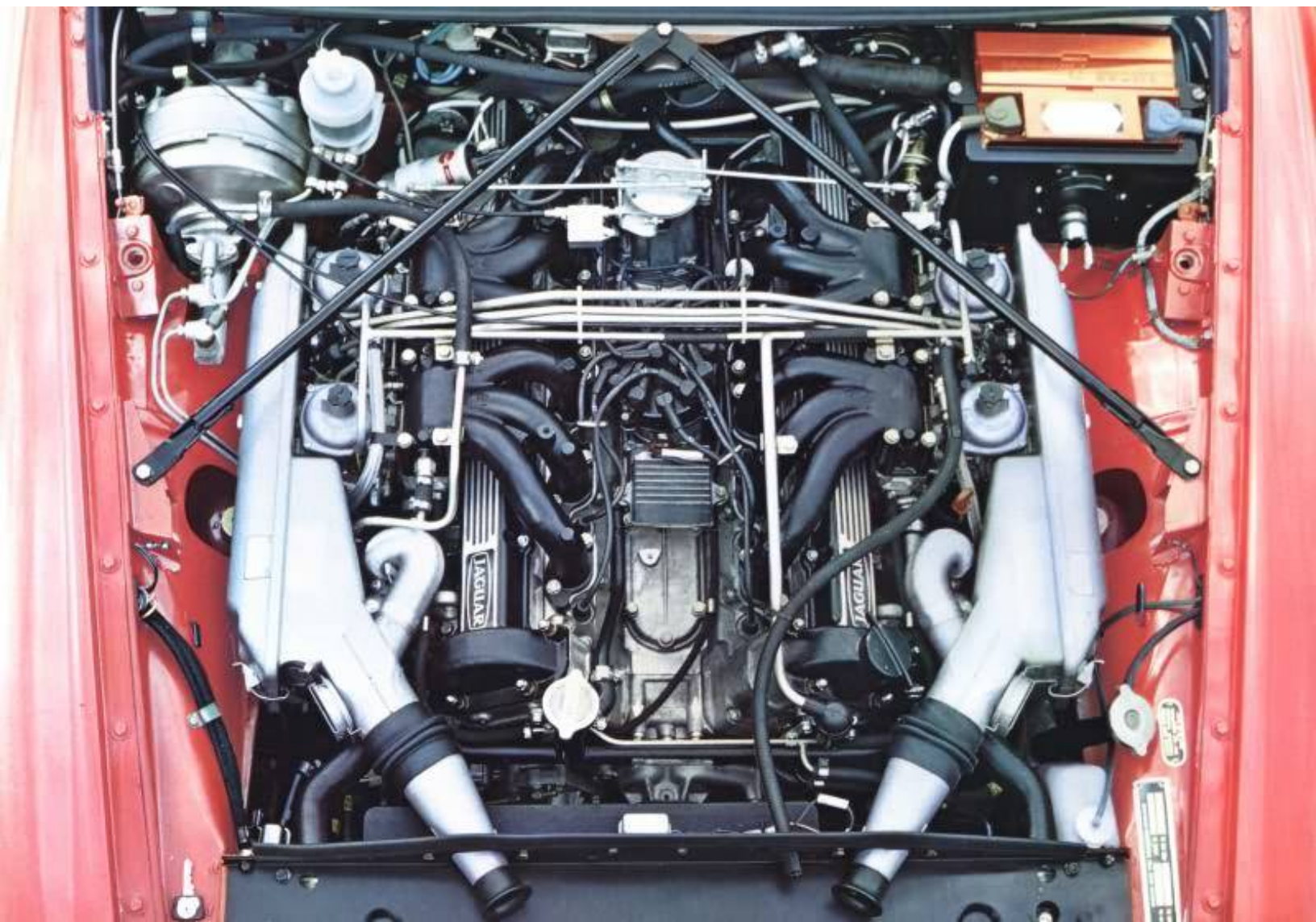
The V12 configuration provides exceptionally good balance, smooth running, and a high power and torque output throughout the engine speed range, coupled with extreme flexibility.

Features of this 60-degree 'V' engine include:
Extensive use of light-alloy; single cams per bank driven by single chain with self-adjusting tensioner; fully transistorised ignition; high capacity lubrication system incorporating oil cooler; 'flat-head' cylinder head design.

Allied to the installation of the V12 engine into the XJ saloon car are a new water cooling system, a fully recirculating fuel system, increased length and rate of front springs, and ventilated front disc brakes.

Supplementary equipment for compliance with exhaust emission control requirements is fitted as standard but varies according to individual market requirements.

Jaguar's V12 engine, its design, development and production story, is the subject of a special brochure. Enquiries about this technically detailed and illustrated publication should be directed to the Advertising Department at Jaguar from where copies can be purchased.



The capacious (17 cu. ft.) luggage compartment has a counterbalanced lid for ease of operation, is fully trimmed to protect luggage and has an automatic interior light which operates in circuit with the side-lamps. The spare wheel is housed beneath the floor of the boot, allowing maximum use of luggage space.

For items other than main luggage—for maps, books, personal effects, and the many odds and ends one has to find room for, particularly on long journeys and holidays—the car's interior has many useful spaces; door pockets, parcel shelves, a lockable glove box and a centre console compartment which serves as an armrest when closed.





Engineering and Safety Features

1. Anti-dive suspension geometry contributing towards outstanding roadholding and braking characteristics.
2. Servo-assisted disc brakes with separate hydraulic circuits to front and rear wheels.
3. Ventilated front discs for improved brake cooling.
4. Brake pressure differential warning system.
5. Special valve systems (a) maintain front to rear brake pressure ratios, (b) progressively reduce rear braking pressure to minimize wheel lock in emergencies.
6. Very wide section low-profile radial-ply tyres with steel bracing and anti-aquaplaning tread pattern for maximum road grip in all weather conditions.
7. Rack and pinion steering for utmost precision, power assisted to reduce effort.
8. Steering rack mounted on rear face of suspension beam for maximum safety.
9. Swing link in lower steering-column to eliminate axial loading up the column.
10. Energy absorption devices to inner and outer steering-columns to cushion impact on steering-wheel in the event of accident.
11. Universal joint between steering-columns, together with collapsible mounting allows their displacement in a severe collision.
12. Strong body centre section with front and rear ends designed for progressive deformation to cushion impact.
13. Burst-proof door locks with child-proof safety catches to rear doors.
14. Twin fuel tanks, enclosed in steel compartments in rear wings.
15. Fuel lines specially located to minimize possibility of rupture.
16. Petrol filler caps recessed in body to minimize being torn away.
17. Positive opening and closing of filler caps by flush-fitting levers.
18. Specially shaped and padded tops of front seat squabs assist rear seat passenger protection.
19. Reinforced seat belt anchorages front and rear.
20. Impact-absorbing surround to instrument panel.
21. Rocker-type panel switches avoiding sharp edges and projection.
22. Combined ignition switch and steering lock.
23. Soft and heavily-padded sun visors.
24. Large rear-view mirror with anti-dazzle secondary image position and spring-loaded breakaway holder.
25. Progressive opening and closing of quarter-lights by control wheel.
26. Slim-line window-winding handles with soft plastic knobs.
27. Smooth contoured door levers and locking tabs recessed into doors.
28. Matt finish to metal parts likely to cause dazzle by reflection.
29. Large area side lamps and direction flashers with wide visibility angle.
30. Comprehensive fuse circuitry.
31. Hazard warning system whereby all four direction indicators flash simultaneously.
32. Large window area with slim pillars for good all-round visibility.

Jaguar XJ12 Specification

ENGINE—5.3 litre (5343 c.c.) sixty-degree V12, developing 309 b.h.p. (gross) at 6,250 r.p.m. and 332 lb/ft torque (gross) at 4,000 r.p.m. Nominal compression ratio 9 : 1. Single overhead camshafts per bank. Four carburettors. Transistorised ignition. Manually operated enrichment control. Dual exhausts. Engine complies with pollution control regulations. Lubrication system includes oil cooler and provision for rapid oil warm up from cold start. 'Flathead' cylinder head design and extensive use of light alloys are other features of the engine.

COOLING—cross-flow radiator. Two cooling fans—one of the 'Torquatrol' viscous coupling type, the other electrically driven and operated by a temperature controlled switch. A small fan with a thermo-switch is fitted in the battery compartment to prevent overheating of battery in extreme conditions.

TRANSMISSION—fully automatic Borg-Warner transmission with torque converter, P.R.N.D.2.1. control system operated by 'T' lever mounted on a central console. Rear axle ratio 3.31 : 1. 22.9 m.p.h. per 1,000 r.p.m. (top gear).

SUSPENSION—fully independent suspension, front and rear, on sub-frames located in body by rubber mountings. 'Anti-dive' geometry on front units. The whole system is designed to provide high standards of roadholding and, at the same time, reduce transmission of road noise and vibration to an exceptionally low level.

WHEELS AND TYRES—ventilated pressed steel wheels fitted with low profile S.P. Sport radial-ply 205/70 VR 15 tyres, featuring steel 'breaker' and anti-aquaplane tread pattern.

BRAKES—all-disc, outboard front, inboard rear, servo-assisted and with separate hydraulic circuits to front and rear wheels. Front discs are ventilated. Special valve systems to maintain front to rear brake pressure ratios and progressively reduce rear braking pressures to minimise wheel lock-up in emergencies. Self adjusting hand brake operates on rear wheels. Combined hand brake 'on' and brake fluid 'low level' warning light on instrument panel.

STEERING—rack and pinion, with power assistance from a rotary vane pump. 16 in. diameter steering wheel. 3.5 turns lock to lock. Telescopically adjustable steering column. Energy absorbing column design. Steering column lock fitted.

FUEL SUPPLY—fully recirculating fuel system. Twin fuel tanks enclosed in steel compartments, one in each rear wing. Twin fillers, recessed into bodywork, have spring-tensioned flush-fitting levers with locks. Pumps controlled by changeover switch on instrument panel. Total capacity 20 gallons. Fuel specification RM 97 minimum (four star).

ELECTRICAL EQUIPMENT AND INSTRUMENTS—pre-engaged starter motor. Alternator, Pacemaker Battery Negative earth system. Four headlamp system with steering column lever for flashing. Foot operated dipswitch. Sidelamps. Stop and tail lights. Flashing direction indicators doubling as hazard warning lights. Twin reversing lights. Instruments illuminated by internal lighting with two-position dimmer switch. Map reading light. Interior lights operated by fascia switch and automatically by opening doors. Luggage boot illumination. Cigar lighter with illuminated socket. Twin horns. Electrically operated high pressure windscreen washer. Two-speed, self-parking windscreen wipers. Fully transistorised ignition. Electrically heated rear window. Speedometer with trip and total distance recorders. Revolution counter. Time clock. Battery condition indicator. Electrically operated oil pressure gauge, water temperature gauge, fuel gauge. Combined hand brake 'on' and brake fluid 'low level' warning light.

BODY—all-steel four-door, four/five seater body of integral construction. Extensive use of sound and rust inhibitors. Large semi-wraparound windscreen and rear window, both with slim pillars giving excellent visibility front and rear. Wide view rear-view mirror with dipping position mechanism. Contoured and luxuriously upholstered seating. Floors fully carpeted over thick felt underlay. Front seats have combined height and reach adjustment and reclining squabs with provision for head

restraints. Rear seat has central folding armrests. Front and rear doors have combined pocket/armrest/doorpulls. Polished walnut veneer instrument panel, with padded surround, incorporates lockable glove box with internal vanity mirror. Padded shelf beneath fascia. Central console contains heating and ventilating controls, gear lever, twin ashtrays, cigar lighter and provision for optional radio. Padded sun visors. Burst-proof door locks to all four doors and concealed child-proof safety catches on rear doors. Heavy duty wraparound bumpers with over-riders. Seat belt anchorages incorporated for front and rear seats.

HEATING AND VENTILATION—comprehensive system featuring multi-directional vents at each end of the fascia and in the rear compartment central console, separate supply to front footwells, separate volume controls for left- and right-hand front compartment and for rear compartment, screen demist vents, 'Posivent' air extraction for rapid and quiet change of air.

LUGGAGE ACCOMMODATION—17 cu. ft. capacity luggage compartment, fully trimmed to protect luggage. Counterbalanced lid. Interior lamp operated by automatic switch in circuit with sidelamps.

SPARE WHEEL AND TOOLS—spare wheel housed beneath luggage compartment floor. Tool-kit-rol in luggage compartment.

JACKING—four point jacking allows individual wheels to be raised. Special location studs adjacent to each wheel fit into forked lifting pad on screw-type, manually operated, easy lift jack.

PRINCIPAL DIMENSIONS—overall length 15 ft. 9.6 in.; overall width 5 ft. 9.6 in.; overall height 4 ft. 4.8 in.; wheelbase 9 ft. 0.8 in.; track front 4 ft. 10.0 in.; track rear 4 ft. 10.6 in.; ground clearance (nominal) 7.0 in.



The issue of this catalogue does not constitute an offer. The specification described in this brochure varies for different countries, and Jaguar Cars reserves the right to amend specifications at any time without notice. Due to tolerances all measurements and weights in this catalogue are approximate.

Jaguar Cars

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Lithographed by The Haffield Press Limited, Cowley, Oxford, England. 26/1 (83303) 8/72—50,000



A phrase long associated with Jaguar—'a special kind of motoring which no other car in the world can offer', becomes particularly significant for the XJ12 which, by its addition to the Jaguar range, extends the world's range of high performance luxury cars to include a 12-cylinder, four-door saloon.

It embraces the numerous advanced engineering design and safety features of other XJ models and incorporates many important additions consistent with the installation of Jaguar's 5.3-litre V12 engine.

Externally, the XJ12 is identifiable by its radiator grille, vertically slatted and surmounted by a 'V-twelve' symbol, and by its 'XJ12' motif at the rear. It retains the 'XJ' all-steel body of monocoque construction—wide, spacious, and with good all round visibility. With these characteristics, and its broad track and wide tyres, the XJ12 is exactly as spacious and as stable as it looks.





Outstanding road behaviour is a feature of all cars in the Jaguar range, not least the XJ12 wherein the small increase in engine weight is countered by a slight increase in front spring rate and length, and ventilated front brake discs (as introduced on the V12 E Type). The servo-assisted disc brake system has separate hydraulic circuits to front and rear and incorporates a pressure differential warning actuator. A pressure relief valve in the rear system helps minimise the possibility of rear wheel lock-up in emergencies. The tyres are those specially developed for Jaguar—very wide section, low profile, radial ply with steel bracing and anti-aquaplaning tread pattern. The suspension, independent on all four wheels, has anti-dive geometry at the front. The rack and pinion steering (for utmost precision) is power assisted (to reduce effort). These are the kind of features which stem from Jaguar's long experience of manufacturing high performance cars and which combine to provide the kind of roadholding and braking essential to primary safety.

Outside, the XJ12 gives a visual impression of its smoothness. Inside, it provides the feel, not just by the comfort and luxury of its furnishings and fittings, but also by its engineering design features which combine to keep the transference of road noise and vibration down to an extremely low level.

The ride and handling qualities of the XJ12 enable driver and passengers alike to experience motoring of an enjoyable kind whether on long distance journeys or crawling along in city traffic. Smoothness and quietness are common to both situations. At all times the response to controls is reassuringly positive. In the subtle balance of its virtues the XJ12 makes the driver feel immediately at one with the car.

