

JAGUAR XJ12





The XJ12, powered by Jaguar's 5.3 litre V12 engine, not only extends the XJ range of models but also provides the world with a four-door, twelve cylinder saloon of exceptional value. While embracing the advanced engineering design and safety features of other XJ models, it includes many significant additions consistent with the installation of the V12 engine which, by its very configuration, provides exceptionally good balance, smooth running, and a high power and torque output throughout its speed range, coupled with extreme flexibility.

The small increase in engine weight over that of Jaguar's six-cylinder power unit is countered by a slight increase in front spring rate and length, and ventilated brake discs (as introduced on the V12 'E' Type) are fitted at the front. The complete disc brake system is servo-assisted, with separate hydraulic circuits to front and rear wheels, and with increased efficiency to match the increased performance.

Improved ventilation (introduced on other models also) is achieved by the installation of fresh air ducts leading from the outer-headlamp surrounds to the front footwells and can be switched on, or off, or to an intermediate position. This supplements the multi-directional fascia-mounted fresh air ducts. Rapid changes of air are effected by neat extraction vents at the rear.

Outside, the XJ12 gives a visual impression of 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 to the very minimum. With its roomy interior, wide track and broad tyres, the XJ12 looks exactly as spacious and as stable as it really is.



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 located in structure 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.

BRIEF SPECIFICATION

ENGINE: 60-degree V12, single overhead camshafts per bank, four carburettors, 5343 c.c., 9:1 nominal compression ratio, 309 b.h.p. (gross) at 6,250 rev/min, 332 lbf ft torque (gross) at 4,000 rev/min, B.M.E.P. 154 lbf/in² (gross) at 4,000 rev/min, transistorized ignition, manually operated enrichment control.

TRANSMISSION: Automatic P, R, N, D, 2, 1 fitted as standard. Central console-mounted control lever.

BRAKES: All-disc, servo-assisted and dual circuited. Ventilated front discs. Pressure differential warning system. Line-pressure proportioning system for rear brakes.

SUSPENSION: Independent on all four wheels. Anti-dive geometry on front.

STEERING: Rack and pinion, power assisted. 3.5 turns lock to lock.

WHEELS AND TYRES: Ventilated pressed steel wheels. Dunlop 205/70 VR15 SP Sport tyres.

BODY: Monocoque all-steel, four-door saloon. Luxuriously trimmed interior. Fully trimmed 27 ft³ luggage compartment. Spare wheel and tool kit contained beneath luggage compartment floor.

HEATING/VENTILATING/DEMISTING: Comprehensive system of fresh air (throughflow) ventilation and heating with range of settings and individual volume control to front and rear.

ELECTRICS AND INSTRUMENTS: Extensively equipped in keeping with other models in the range.

PRINCIPAL DIMENSIONS: Overall length 189.6 in (481.4 cm); Overall width 69.7 in (176.8 cm); Overall height 52.8 in (134.3 cm); Wheelbase 108.8 in (276.5 cm); Track—front 58.0 in (147.3 cm); Track—rear 58.3 in (148.2 cm); Fuel capacity 20 gallons (91 litres).



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