JAGUAR

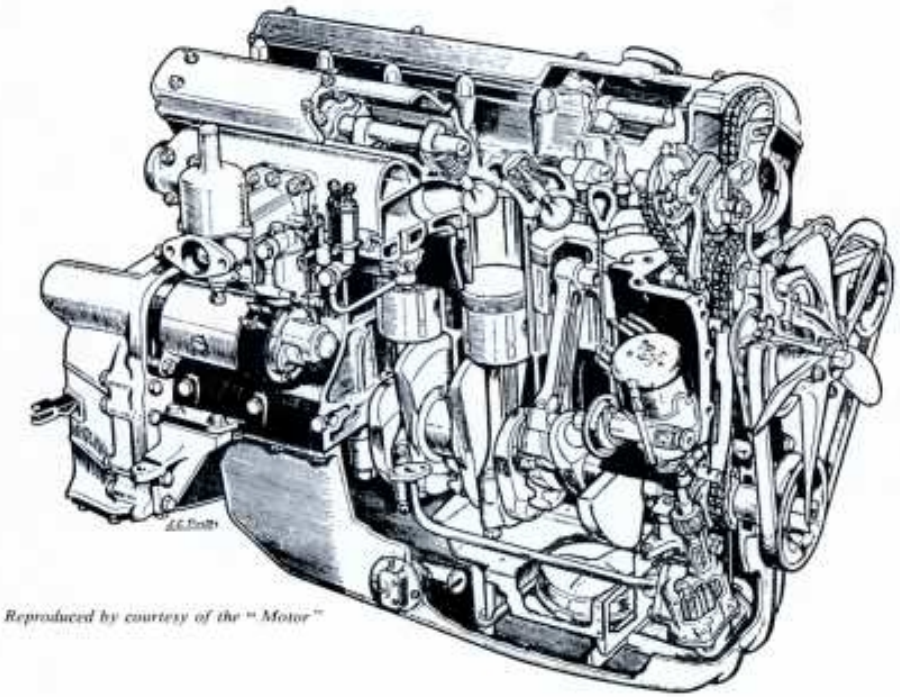
MK VII SALOON · OVERDRIVE MODEL

FITTED only to the "OVERDRIVE" model, the Laycock De Normanville unit has been specially produced to take the high torque and engine speed of the Jaguar XK engine. In addition the box is fitted with an automatic cut-out which operates below certain road speeds and virtually gives an automatic fifth speed with over-riding manual control. A lower axle ratio is employed on this model so that extra acceleration in normal top gear is obtained.

Gear ratios : 1st and Reverse, 15.35 ; 2nd, 9.015 ; 3rd, 6.222 ; Top, 4.55 ; Overdrive, 3.538.

Table giving relationship between engine revolutions per min. to road speed in m.p.h.

Road Speed		Engine Revs. Top	
K.P.H.	M.P.H.	Without Overdrive	With Overdrive
80	50	2760	2146
96	60	3312	2575
112	70	3864	3004
128	80	4416	3433
144	90	4968	3863
160	100	5520	4292
176	110		4621



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THE FAMOUS JAGUAR XK120 ENGINE

The six-cylinder 160 b.h.p. double overhead camshaft Jaguar XK120 engine is an outstanding example of British high precision engineering. From the gleaming highly-polished camshaft covers to the heavily stove-enamelled exhaust manifolds, the fine finish of this engine is obvious the moment the hood is lifted. This is the engine which has carried Jaguar cars to victory in 46 major international races and rallies in less than three years.

SPECIFICATION

ENGINE DIMENSIONS. Six cylinder 3½ litre Jaguar engine ; 70° twin overhead camshafts driven by a two-stage duplex roller chain ; 83 mm. bore × 106 mm. stroke ; 3,442 c.c. developing 160 b.h.p. at 5,200 r.p.m. ; large non-adjustable directly operated valves and austenetic cast iron seats ; compression ratio 8 or 7 : 1 ; high grade chrome iron cylinder block, cooling by pump circulation with by-pass thermostat control ; cylinder head of high tensile aluminium alloy with spherical combustion chambers ; aluminium alloy pistons ; steel connecting rods ; forced lubrication throughout by submerged pump with full flow filter and floating gauze intake ; twin S.U. horizontal carburetters with electrically controlled automatic choke ; 2¾ in. diameter counterweighted crankshaft carried in seven large steel backed precision bearings.

FRAME. Straight plane steel box section frame of immense strength, torsional rigidity ensured by large box section cross members.

TRANSMISSION. Four-speed single helical synchromesh gearbox with ground teeth gears running on needle bearings. Hydraulically controlled overdrive unit with manual over-riding control by a switch mounted on facia panel. Overdrive unit mounted on output shaft of gearbox. Gear ratios : 1st and reverse 15.35 ; 2nd 9.015 ; 3rd 6.222 ; Top 4.55 ; Overdrive top 3.538.

SUSPENSION. Independent front suspension incorporating transverse wish-bones and long torsion bars with shock absorbers. Rear suspension by long silico-manganese steel half elliptic springs controlled by shock absorbers. Rear springs totally enclosed in gaiters fitted with grease nipples.

BRAKES. Girling Dewandre, vacuum servo-assisted, self-adjusting hydraulic ; brake drum diameter, 12 ins. ; friction lining area, 208 square ins. ; handbrake lever flush between front seats.

STEERING. Burman re-circulating ball type steering with 18 in. diameter adjustable steering wheel. Left or right hand steering optional.

WHEELS AND TYRES. Pressed steel bolt-on disc wheels with wide base rim and Dunlop 6.70 × 16 in. super-comfort low pressure tyres.

FUEL SUPPLY. S.U. electric fuel pump ; fuel capacity, 17 imperial gallons in two separate tanks of nine and eight gallons capacity respectively with turn-over control switch on instrument panel.

ELECTRICAL EQUIPMENT AND INSTRUMENTS. Lucas 12 volt 64 amp. capacity battery with constant voltage controlled ventilated dynamo, 10 hour discharge, flush fitting head lamps and wing lamps, stop light, reverse light, twin rear lights, panel light, automatic and manually controlled interior lights, twin blended note horns, twin blade 2-speed screen wiper, cigar lighter, starter motor, vacuum and centrifugal automatic ignition advance.

INSTRUMENTS. 5 in. diameter 120 m.p.h. speedometer, 5 in. diameter revolution counter, ammeter, oil pressure gauge, water thermometer gauge, fuel gauge, electric clock, self-cancelling trafficators with warning light.

HEATER AND AIR CONDITIONING. Built-in heater with controlled warm air flow and incorporating windscreen de-froster. Large scuttle vents for additional cooling in hot weather. Windscreen washers.

BODY. All steel full five-seater with sliding roof ; four doors ; special security locks to rear doors for child safety ; upholstered in finest quality Vaumol leather over foam rubber ; polished walnut instrument panel and interior garnishings ; two glove compartments with locks ; five ashtrays ; padded armrests ; deep pile carpets over thick felt underlay.

LUGGAGE ACCOMMODATION. The extraordinarily capacious luggage locker enables four large suitcases, four sets of golf clubs, also rugs, holdalls and other travelling sundries to be carried in its totally enclosed interior. The area provided for the carrying of luggage is 17 cubic feet.

SPARE WHEEL. Fitted with tyre and tube and carried in luggage compartment with necessary tools for wheel changing.

TOOLS. A complete set of hand tools and small replacement items are carried in special flush fitting compartments concealed in the front doors.

EASY JACKING. Exterior jack slots, conveniently placed, enable the car to be lifted with minimum effort by means of jack provided.

PRINCIPAL DIMENSIONS. Wheelbase, 10 ft. 0 ins. ; track front, 4 ft. 8½ ins. ; track rear, 4 ft. 10 ins. ; overall length, 16 ft. 4½ ins. ; overall width, 6 ft. 1 in. ; overall height, 5 ft. 3 ins. ; ground clearance, 7½ ins. ; turning circle, 36 ft. 0 in. ; dry weight, 33 cwts.

JAGUAR CARS LIMITED · COVENTRY · ENGLAND

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