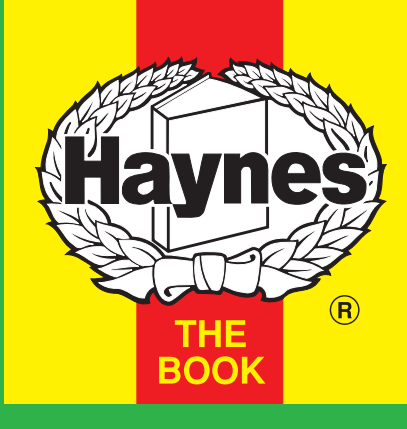


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical
DATA BOOK

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MENU	HELP
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Engine and cooling systemXJ-S V12, 6.01993 to 1996

Type		V12 SOHC 204kW
Capacity (cm³) / number of cylinders		5993 / 12
Compression ratio / pressure	bar	11.0 / ≥13.6
Oil pressure	bar	1.4
Oil temperature	°C	80
Valve clearance - inlet	mm	0.31 to 0.36
Valve clearance - exhaust	mm	0.31 to 0.36
Firing order		1-12-5-8-3-10-6-7-2-11-4-9
No 1 cylinder position		FR
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	1.20

Fuel systemXJ-S V12, 6.01993 to 1996

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Lucas
Type / ref		MPI 36CU
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	2.5
Octane rating	RON	95[U]

Ignition systemXJ-S V12, 6.01993 to 1996

Type		Computerized
Ignition coil		2xMarelli BAE504
Primary resistance	ohms	0.50
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Marelli
Points gap (air gap)	mm	[0.20 to 0.80]
Dwell angle	° (%)	N/A
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control N/A
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK
Type		BR7EF
Electrode gap	mm	0.64

Electrical systemXJ-S V12, 6.01993 to 1996

Battery	V / CC / RC	12 / 72Ah
Alternator voltage / full load current / engine rpm		13.8 to 15.0 / 120 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearXJ-S V12, 6.01993 to 1996

Brakes -		
Front (min. friction material thickness)	mm	—
Rear (min. friction material thickness)	mm	—

Tyres		
Saloon	Size	235/60x15:225/55x16:220/65x390
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.5 / 2.5
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0 to +3.2 L
Camber		-30'±15'
Castor		+3°30'±15'
King pin inclination		+1°30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±0.8 L
Camber		-45'±15'

Torque wrench settingsXJ-S V12, 6.01993 to 1996

Cylinder head - stage 1	Nm	59 to 61
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	52 to 55
Main bearings	Nm	136 to 142
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	[49 to 54]
Front hubs	Nm	WSM
Rear hubs	Nm	136 to 163
Wheel nuts / bolts	Nm	82. Alloy: 102
Spark plugs	Nm	27

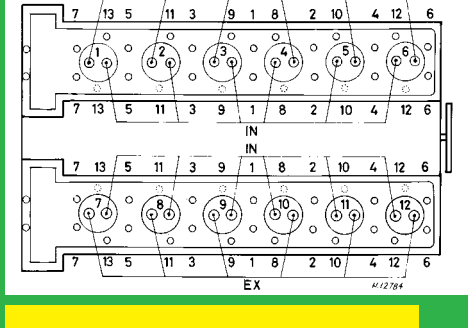
CapacitiesXJ-S V12, 6.01993 to 1996

Engine oil & filter	litres	10.0
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	9.1
Final drive	litres	1.6
Cooling system	litres	19.8
Fuel tank	litres	86.4

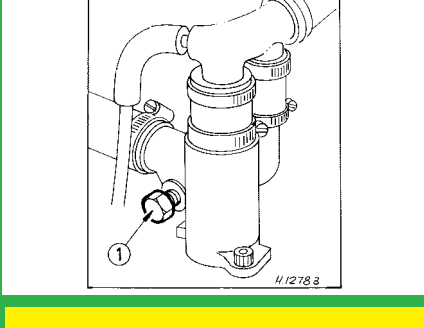
Notes and Illustrations



1: Idle speed 2: CO / Mixture



5993 cm³



Lucas MPI 36CU