

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

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Engine and cooling system XJ-S V12, 6.0 1993 to 1996

Type	V12 SOHC 204kW
Capacity (cm ³) / 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 system XJ-S V12, 6.0 1993 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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ 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 system XJ-S V12, 6.0 1993 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 system XJ-S V12, 6.0 1993 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 gear XJ-S V12, 6.0 1993 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'

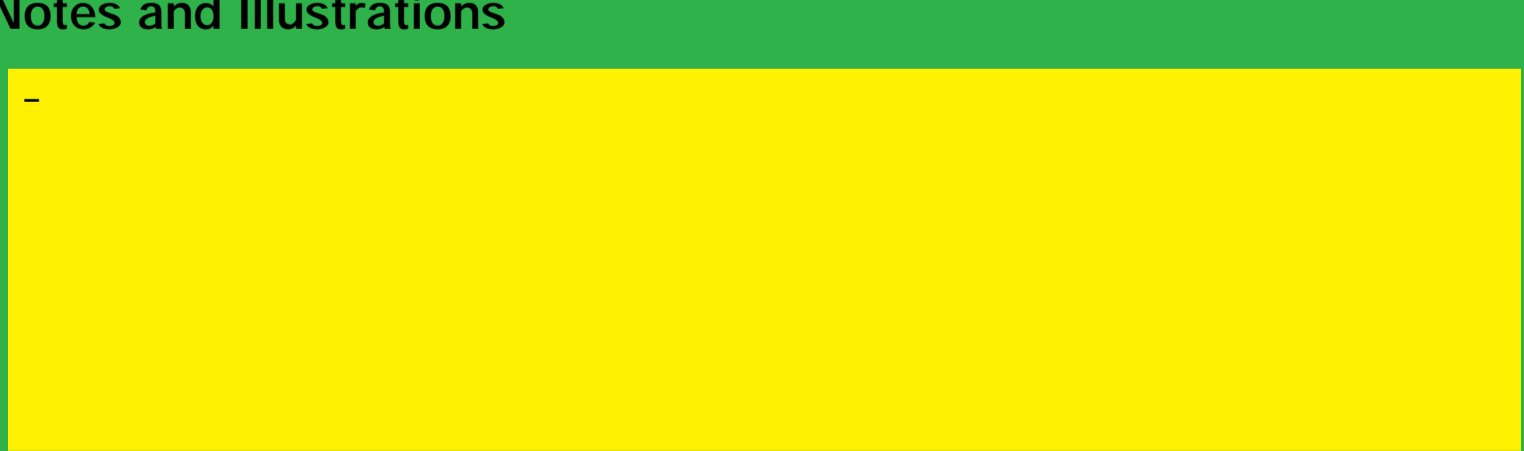
Torque wrench settings XJ-S V12, 6.0 1993 to 1996

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

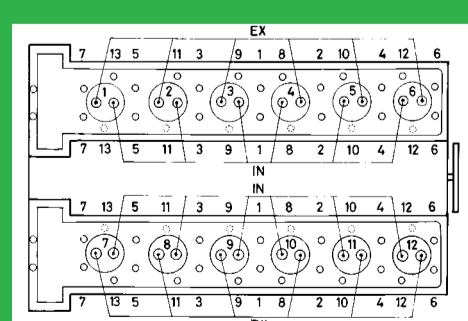
Capacities XJ-S V12, 6.0 1993 to 1996

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

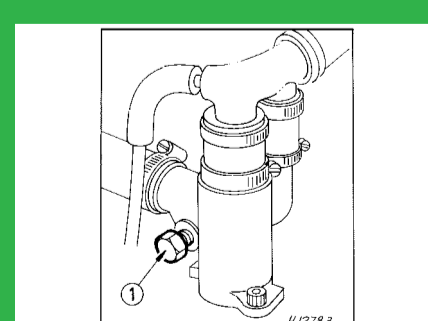
Notes and Illustrations



1: Idle speed 2: CO / Mixture



5993 cm³



Lucas MPI 36CU