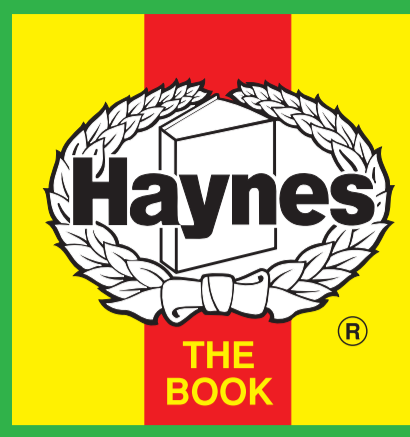


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
------------------	------	----------	------------	--------------	-----------------	------------	-----------------------



Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system XJ-S & Convertible 4.0 CAT 1991 to 1997

Type		AJ-6 DOHC 24V 166kW
Capacity (cm ³) / number of cylinders		3980 / 6
Compression ratio / pressure	bar	9.5 / ≥10.9
Oil pressure	bar	2.1
Oil temperature	°C	80
Valve clearance - inlet	mm	0.30 to 0.36
Valve clearance - exhaust	mm	0.30 to 0.36
Firing order		1-5-3-6-2-4
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.00

Fuel system XJ-S & Convertible 4.0 CAT 1991 to 1997

Idle speed - manual [auto]	rpm	800±50 [700±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		15CU Digital MPI
Main jet / needle		—
Injection pressure	bar	3.0
Pump pressure	bar	2.5. 90 ▶: 3.0
Octane rating	RON	95[U]

Ignition system XJ-S & Convertible 4.0 CAT 1991 to 1997

Type		Computerized
Ignition coil		Bosch yellow label
Primary resistance	ohms	0.45 to 0.55
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Lucas
Points gap (air gap)	mm	[0.80±0.40]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
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		Champion
Type		RC9YCC
Electrode gap	mm	0.90

Electrical system XJ-S & Convertible 4.0 CAT 1991 to 1997

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	940 / 6.5

Running gear XJ-S & Convertible 4.0 CAT 1991 to 1997

Brakes -		
Front (min. friction material thickness)	mm	—
Rear (min. friction material thickness)	mm	—
Tyres		
Saloon	Size	225/65x15:225/55x16:225/60x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.3
- Estate / Van	bar	—
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +3.2 ¹
Camber		-30'±15'
Castor		+3°30'±15'
King pin inclination		+1°30'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±0.8 ¹
Camber		-45'±15'

Torque wrench settings XJ-S & Convertible 4.0 CAT 1991 to 1997

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	23 to 27
Flywheel [driveplate]	Nm	98 [49 to 54]
Front hubs	Nm	WSM
Rear hubs	Nm	136 to 163
Wheel nuts / bolts	Nm	82. Alloy: 102
Spark plugs	Nm	35 to 45

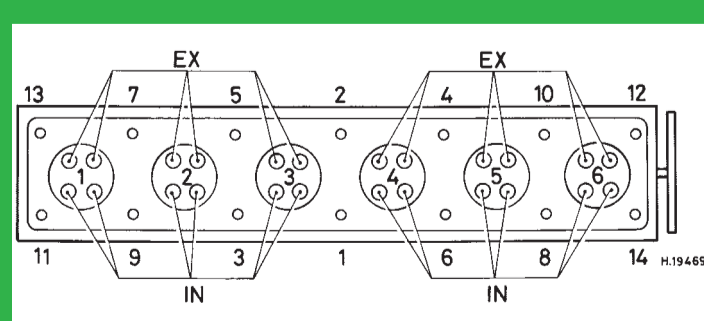
Capacities XJ-S & Convertible 4.0 CAT 1991 to 1997

Engine oil & filter	litres	8.0
Gearbox - 4-speed [5-speed]	litres	1.4
Automatic transmission - refill	litres	3.0
Final drive	litres	2.1
Cooling system	litres	12.3
Fuel tank	litres	89. Convert: 82

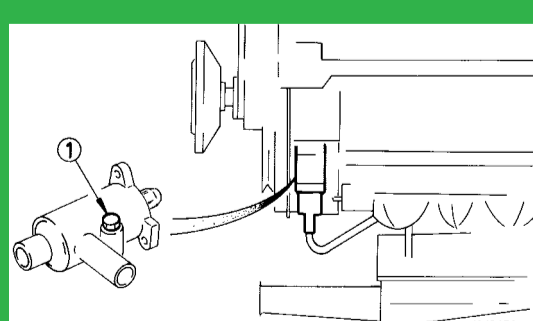
Notes and Illustrations

¹Laden

1: Idle speed 2: CO / Mixture



3980 cm³



15CU Digital, 3980 cm³