

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 3.6 1988 to 1991

Type		AJ-6
Capacity (cm ³) / number of cylinders		3590 / 6
Compression ratio / pressure	bar	9.6 / 11.0
Oil pressure	bar	2.1
Oil temperature	°C	80
Valve clearance - inlet	mm	0.30 to 0.34
Valve clearance - exhaust	mm	0.30 to 0.34
Firing order		1-5-3-6-2-4
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.0

Fuel system XJ-S 3.6 1988 to 1991

Idle speed - manual [auto]	rpm	700±50 (550 to 600 base idle)
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 1.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Lucas
Type / ref		EFI
Main jet / needle		—
Injection pressure	bar	3.0 above manifold pres.
Pump pressure	bar	3.0
Octane rating	RON	98[L] ¹

Ignition system XJ-S 3.6 1988 to 1991

Type		Computerized
Ignition coil		Bosch TC1
Primary resistance	ohms	0.45 to 0.55
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Lucas
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	21 BTDC @ 2000. 89 ▶: N/A
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° 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 3.6 1988 to 1991

Battery	V / CC / RC	12 / 66Ah
Alternator voltage / full load current / engine rpm		13.8 to 14.0 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	940 / 6.5

Running gear XJ-S 3.6 1988 to 1991

Brakes -		
Front (min. friction material thickness)	mm	—
Rear (min. friction material thickness)	mm	—
Tyres		
Saloon	Size	235/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.8 / 1.9
- Estate / Van	bar	—
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to +3.2 ²
Camber		0±15'
Castor		+3°30'±15'
King pin inclination		+1°30'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±0.8 ²
Camber		+15'±15'

Torque wrench settings XJ-S 3.6 1988 to 1991

Cylinder head - stage 1	Nm	38 to 40
- 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
Front hubs	Nm	WSM
Rear hubs	Nm	136 to 163
Wheel nuts / bolts	Nm	61
Spark plugs	Nm	—

Capacities XJ-S 3.6 1988 to 1991

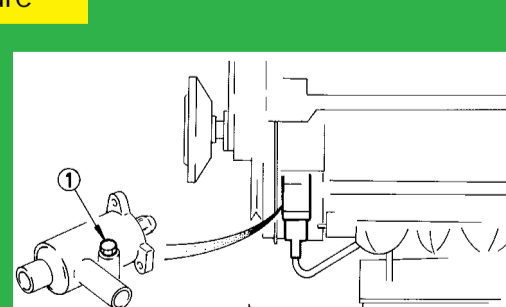
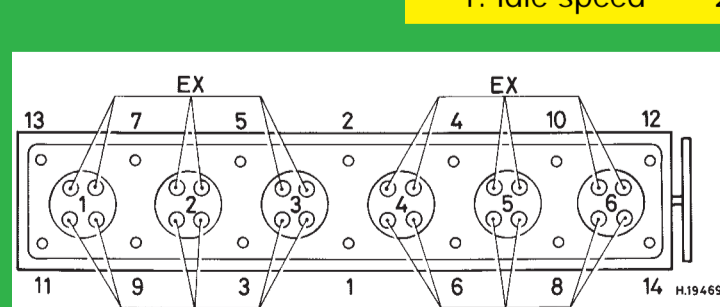
Engine oil & filter	litres	8.0
Gearbox - 4-speed [5-speed]	litres	1.4
Automatic transmission - refill	litres	8.0
Final drive	litres	1.6
Cooling system	litres	11.6
Fuel tank	litres	91

Notes and Illustrations

¹89 ▶: 95 [E 95 RON]

²Laden

1: Idle speed 2: CO / Mixture



3590 cm³

EFI, 3590 cm³