

Engine & Cooling

Fuel

Ignition

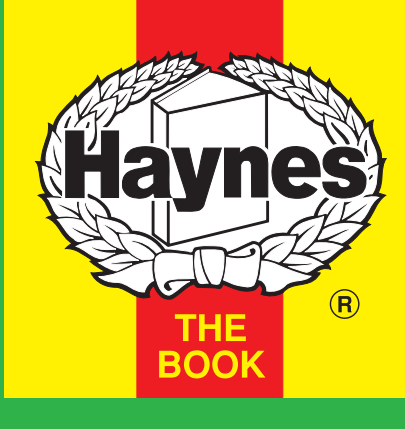
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

XJR 4.0 Supercharged

1994 to 1997

Type		AJ16 DOHC 24V 240kW
Capacity (cm ³) / number of cylinders		3980 / 6
Compression ratio / pressure	bar	8.5 / _
Oil pressure	bar	0.5 [4.83]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.30
Valve clearance - exhaust	mm	0.36
Firing order		1-5-3-6-2-4
No 1 cylinder position		TCE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.20

Fuel system

XJR 4.0 Supercharged

1994 to 1997

Idle speed - manual [auto]	rpm	700
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
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	30
Octane rating	RON	95[U]

Ignition system

XJR 4.0 Supercharged

1994 to 1997

Type		Direct electronic
Ignition coil		Diamond
Primary resistance	ohms	0.75
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	N/A
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	_
Maximum vacuum advance	° Crankshaft	_
Spark plugs		_/Champion
Type		RC9YC
Electrode gap	mm	0.90

Electrical system

XJR 4.0 Supercharged

1994 to 1997

Battery	V / CC / RC	12 / 72Ah
Alternator voltage / full load current / engine rpm		14.4 / 120 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

XJR 4.0 Supercharged

1994 to 1997

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

Tyres		
Saloon	Size	225/45x17
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+5'±10']
Camber		+24' to -1°
Castor		+2°
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+15'±10']
Camber		-1°36'±24'

Torque wrench settings

XJR 4.0 Supercharged

1994 to 1997

Cylinder head - stage 1	Nm	59 to 61 N
- stage 2	Nm	+90°
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	52 to 55 N
Main bearings	Nm	136 to 142 N
Clutch cover	Nm	23 to 27
Flywheel [driveplate]	Nm	123 to 149
Front hubs	Nm	WSM
Rear hubs	Nm	80 to 100
Wheel nuts / bolts	Nm	68 to 82 (Alloy: 88 to 102)
Spark plugs	Nm	22 to 28

Capacities

XJR 4.0 Supercharged

1994 to 1997

Engine oil & filter	litres	8.0
Gearbox - 4-speed [5-speed]	litres	1.4
Automatic transmission - refill	litres	9.5
Final drive	litres	2.1
Cooling system	litres	13.5. Refill: 9.25
Fuel tank	litres	81

Notes and Illustrations

