

Engine & Cooling

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Engine and cooling system

XJ12 & Double 6, 6.0

1994 to 1997

Type		V12 SOHC 233kW
Capacity (cm³) / number of cylinders		5993 / 12
Compression ratio / pressure	bar	11.0 / ≥13.6
Oil pressure	bar	0.5 [4.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.31
Valve clearance - exhaust	mm	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	88
Radiator cap pressure	bar	1.20

Fuel system

XJ12 & Double 6, 6.0

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	—
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition system

XJ12 & Double 6, 6.0

1994 to 1997

Type		DIS
Ignition coil		Nippon
Primary resistance	ohms	0.45 to 0.55
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	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

XJ12 & Double 6, 6.0

1994 to 1997

Battery	V / CC / RC	12 / 72Ah
Alternator voltage / full load current / engine rpm		14.4 / 180 / _
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

XJ12 & Double 6, 6.0

1994 to 1997

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

Tyres		
Saloon	Size	225/55x16: 225/60x16
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'±20']
Camber		-45'±15'

Torque wrench settings

XJ12 & Double 6, 6.0

1994 to 1997

Cylinder head - stage 1	Nm	64 to 78
- stage 2	Nm	—
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	50 to 60
Main bearings	Nm	—
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	85 to 105
Front hubs	Nm	WSM
Rear hubs	Nm	80 to 100
Wheel nuts / bolts	Nm	68 to 82 Alloy: 88 to 102
Spark plugs	Nm	13 to 17

Capacities

XJ12 & Double 6, 6.0

1994 to 1997

Engine oil & filter	litres	10.0
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	7.3
Final drive	litres	2.1
Cooling system	litres	19.2. Refill: 14.5
Fuel tank	litres	81

Notes and Illustrations

