

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemXJR-S 6.0 CAT1992 to 1993

Type	V12 SOHC 24V 248kW	
Capacity (cm³) / number of cylinders	5993 / 12	
Compression ratio / pressure	bar	11.0 / 13.8
Oil pressure	bar	1.4
Oil temperature	°C	80
Valve clearance - inlet	mm	0.25 to 0.30
Valve clearance - exhaust	mm	0.25 to 0.30
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	1.0

Fuel systemXJR-S 6.0 CAT1992 to 1993

Idle speed - manual [auto]	rpm	750±25
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.1 to 0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	50
CO2 @ idle speed [3000 rpm] - see page VI	%	≥12.0
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	—	
Type / ref	Zytek SEFI	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition systemXJR-S 6.0 CAT1992 to 1993

Type	Computerized	
Ignition coil	—	
Primary resistance	ohms	—
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	—
V = Vacuum NV = No Vacuum	—	
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	NGK/Champion	
Type	BR7EFS / RS5C	
Electrode gap	mm	0.64

Electrical systemXJR-S 6.0 CAT1992 to 1993

Battery	V / CC / RC	12 / 68Ah
Alternator voltage / full load current / engine rpm	13.8 to 15.0 / _ / 3000	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearXJR-S 6.0 CAT1992 to 1993

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

Tyres		
Saloon	Size	225/50x16: 245/55x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0 to +1.6²
Camber	-30'±15'	
Castor	+3°30'±15'	
King pin inclination	+1°30'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±0.8²
Camber	-45'±15'	

Torque wrench settingsXJR-S 6.0 CAT1992 to 1993

Cylinder head - stage 1	Nm	0.438 in. nut: 68
- stage 2	Nm	0.375 in. nut: 38
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	55
Main bearings	Nm	0.5 in. nut: 83¹
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	88
Front hubs	Nm	WSM
Rear hubs	Nm	136 to 163
Wheel nuts / bolts	Nm	61
Spark plugs	Nm	—

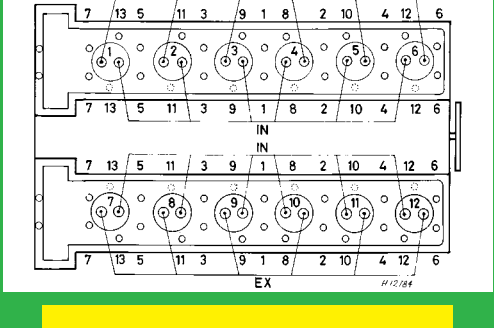
CapacitiesXJR-S 6.0 CAT1992 to 1993

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	89

Notes and Illustrations

¹0.375 in. nut: 38

²L



5993 cm³