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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Espace 2.2i CAT (J/S637/G) 1991 to 1997

Type	J7T-7-72/-7-73/-7-76	
Capacity (cm ³) / number of cylinders	2165 / 4	
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	≥0.8 [3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10 to 0.15
Valve clearance - exhaust	mm	0.20 to 0.25
Firing order	1-3-4-2	
No 1 cylinder position	FE	
Thermostat opening temperature	°C	81 to 93
Radiator cap pressure	bar	1.2

Fuel system Espace 2.2i CAT (J/S637/G) 1991 to 1997

Idle speed - manual [auto]	rpm	800±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Bendix	
Type / ref	Renix MPI	
Main jet / needle	_	
Injection pressure	bar	2.0±0.2
Pump pressure	bar	2.5±0.2
Octane rating	RON	95[U]

Ignition system Espace 2.2i CAT (J/S637/G) 1991 to 1997

Type	Renix - AEI	
Ignition coil	Bendix	
Primary resistance	ohms	0.4 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	Ducellier	
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	Anticlockwise	
Ignition timing - basic [static V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	Computer control N/A
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	AC/Champion	
Type	C41CLTS / S7YC	
Electrode gap	mm	0.85 to 0.95

Electrical system Espace 2.2i CAT (J/S637/G) 1991 to 1997

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm	13.5 / 70, 89, 105 / 3000	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	350 to 500 / _

Running gear Espace 2.2i CAT (J/S637/G) 1991 to 1997

Brakes -		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	2.5 with backing ¹

Tyres		
Saloon	Size	_
Estate / Van	Size	195/65x14
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	2.3 / 1.9 ²

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-4.5±0.7
Camber	+8'±30' N/A	
Castor	+4°24'±20'	
King pin inclination	+12°45'±30' N/A	

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+1.0 to 4.0 N/A
Camber	0±30' N/A	

Torque wrench settings Espace 2.2i CAT (J/S637/G) 1991 to 1997

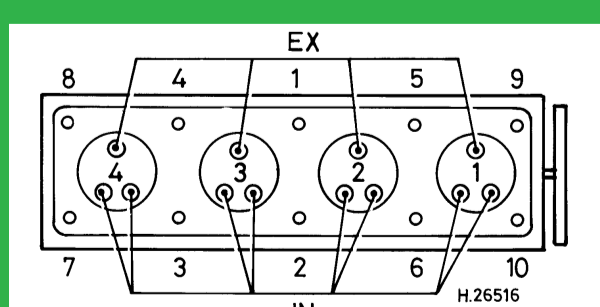
Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 80°
Cylinder head - stage 3	Nm	Wait 3 mins
- stage 4	Nm	+ 80°
Big-end bearings	Nm	60 to 65
Main bearings	Nm	88 to 98
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 [65 to 70]
Front hubs	Nm	250
Rear hubs	Nm	160. 4x4: 210
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	_

Capacities Espace 2.2i CAT (J/S637/G) 1991 to 1997

Engine oil & filter	litres	6.0
Gearbox - 4-speed [5-speed]	litres	2.2. 4x4: 2.4
Automatic transmission - refill	litres	4.0
Final drive	litres	AT: 0.80. 4x4: 1.2
Cooling system	litres	8.4
Fuel tank	litres	77

Notes and Illustrations

¹4x4: 6.0
²J36G & 4x4: 2.3 / 2.1



2165 cm³, 12V