

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system			Espace 2.9i (J638/J)	1991 to 1997
Type			Z7W-7-12/7-13/7-17 114kW	
Capacity (cm³) / number of cylinders			2849 / 6	
Compression ratio / pressure		bar	9.5 / _	
Oil pressure		bar	≥1.0 [4.0]	
Oil temperature		°C	80	
Valve clearance - inlet		mm	0.10	
Valve clearance - exhaust		mm	0.25	
Firing order			1-6-3-5-2-4	
No 1 cylinder position			RL	
Thermostat opening temperature		°C	85 to 93	
Radiator cap pressure		bar	1.2	
Fuel system			Espace 2.9i (J638/J)	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	
CO2 @ idle speed [3000 rpm] - see page VI		%	_	
O2 @ idle speed [3000 rpm] - see page VI		%	_	
Carburettor / fuel injection			Renix	
Type / ref			Bendix MPI	
Main jet / needle			_	
Injection pressure		bar	2.5±0.2	
Pump pressure		bar	3.0±0.2	
Octane rating		RON	95[U]	
Ignition system			Espace 2.9i (J638/J)	1991 to 1997
Type			Computerized	
Ignition coil			Renix	
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			_	
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			Eyquem	
Type			C72LJS	
Electrode gap		mm	0.75 to 0.85	
Electrical system			Espace 2.9i (J638/J)	1991 to 1997
Battery		V / CC / RC	12 / 55Ah	
Alternator voltage / full load current / engine rpm			13.5 / 90, 105 / 3000	
Starter motor current / voltage - cranking		A / V	_	
- locked		A / V	400 or 980 / _	
Running gear			Espace 2.9i (J638/J)	1991 to 1997
Brakes -				
Front (min. friction material thickness)		mm	6.0 with backing	
Rear (min. friction material thickness)		mm	2.5 with backing¹	
Tyres				
Saloon		Size	_	
Estate / Van		Size	195/65x15	
Pressure - front / rear - Saloon		bar	_	
- Estate / Van		bar	2.2 / 2.0	
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 2.9i (J638/J)	1991 to 1997
Cylinder head - stage 1		Nm	60, then slacken bolts	
- stage 2		Nm	20 + 106°	
Cylinder head - stage 3		Nm	Warm up engine, then cool	
- stage 4		Nm	+ 45°	
Big-end bearings		Nm	45	
Main bearings		Nm	30 + 75°	
Clutch cover		Nm	25	
Flywheel [driveplate]		Nm	45 [65 to 70]	
Front hubs		Nm	250	
Rear hubs		Nm	160	
Wheel nuts / bolts		Nm	100	
Spark plugs		Nm	_	
Capacities			Espace 2.9i (J638/J)	1991 to 1997
Engine oil & filter		litres	7.0	
Gearbox - 4-speed [5-speed]		litres	3.0	
Automatic transmission - refill		litres	4.0	
Final drive		litres	AT: 0.8	
Cooling system		litres	10.0	
Fuel tank		litres	77	

Notes and Illustrations

¹Self-levelling suspension: 6.0

