

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Sportage 2.0i 16V

1995 to 1997

Type		FE DOHC 16V 94kW
Capacity (cm ³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	9.2 / ≥8.1
Oil pressure	bar	[3.5 to 4.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	83.5 to 86.5
Radiator cap pressure	bar	0.75 to 1.05

Fuel system

Sportage 2.0i 16V

1995 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
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		—
Type / ref		SMFI MPI
Main jet / needle		—
Injection pressure	bar	3.0
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

Sportage 2.0i 16V

1995 to 1997

Type		Computerized
Ignition coil		—
Primary resistance	ohms	0.55 to 0.66
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	4±6 BTDC @ 800±50 WSM
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		BKR6E-11
Electrode gap	mm	1.10

Electrical system

Sportage 2.0i 16V

1995 to 1997

Battery	V / CC / RC	12 / 48Ah
Alternator voltage / full load current / engine rpm		—
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Sportage 2.0i 16V

1995 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	—
Estate / Van	Size	205/70x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	1.8 / 1.8

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+2.5±2.5
Camber		+0.44°±0.50°
Castor		+3°58'±0.5°
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—

Torque wrench settings

Sportage 2.0i 16V

1995 to 1997

Cylinder head - stage 1	Nm	40 oiled
- stage 2	Nm	80 to 86
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	69 to 73
Main bearings	Nm	83 to 88
Clutch cover	Nm	22 to 32
Flywheel [driveplate]	Nm	96 to 103
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	88 to 108
Spark plugs	Nm	15 to 23

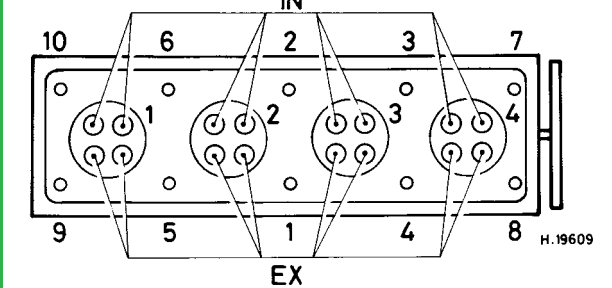
Capacities

Sportage 2.0i 16V

1995 to 1997

Engine oil & filter	litres	4.2
Gearbox - 4-speed [5-speed]	litres	1.25. Transfer: 1.3
Automatic transmission - refill	litres	6.8
Final drive	litres	Front: 1.2. Rear: 1.2
Cooling system	litres	7.5
Fuel tank	litres	60. 2D: 57

Notes and Illustrations



1998 cm³, 16V