

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemEvasion/Synergie 1.8i1996 to 1997

Type		XU7JP/L3 (LFW) 72.5kW
Capacity (cm³) / number of cylinders		1761 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	[6.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20±0.05
Valve clearance - exhaust	mm	0.40±0.05
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	89
Radiator cap pressure	bar	1.4

Fuel systemEvasion/Synergie 1.8i1996 to 1997

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	_
HC @ idle speed [3000 rpm] - see page VI	ppm	_
CO2 @ idle speed [3000 rpm] - see page VI	%	≥11.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_Magneti-Marelli
Type / ref		MMDCM 8P-15 MPI
Main jet / needle		_
Injection pressure	bar	2.0 to 2.5
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemEvasion/Synergie 1.8i1996 to 1997

Type		Static
Ignition coil		BAE 04-V5. 4 output
Primary resistance	ohms	0.8
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 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		Bosch/Eyquem
Type		FR8LDC / RFC42LS2E
Electrode gap	mm	0.90

Electrical systemEvasion/Synergie 1.8i1996 to 1997

Battery	V / CC / RC	12 L1 250, 300, L2 400
Alternator voltage / full load current / engine rpm		80, 90, 120
Starter motor current / voltage - cranking	A / V	300
- locked	A / V	_

Running gearEvasion/Synergie 1.8i1996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	8.5 with backing
Rear (min. friction material thickness)	mm	_

Tyres		
Saloon	Size	195/65x15: 205/65x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5 to 1.5
Camber		0±30'
Castor		+3°30'±30'
King pin inclination		+11°30'±40'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5 to 1.5
Camber		1°±30'

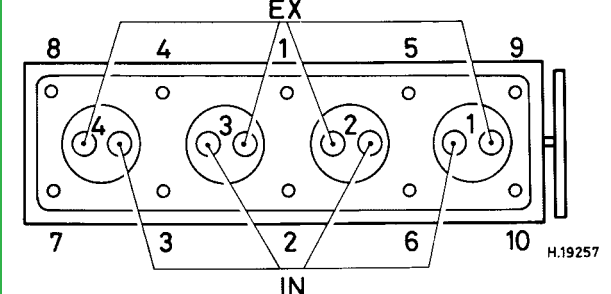
Torque wrench settingsEvasion/Synergie 1.8i1996 to 1997

Cylinder head - stage 1	Nm	Bolts ≤122mm
- stage 2	Nm	35
Cylinder head - stage 3	Nm	70
- stage 4	Nm	+160°
Big-end bearings	Nm	40, slacken, 20 + 70°
Main bearings	Nm	70
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	100 +60°
Rear hubs	Nm	100 +60°
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	25

CapacitiesEvasion/Synergie 1.8i1996 to 1997

Engine oil & filter	litres	4.75. A/C: 4.5
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	80

Notes and Illustrations



1761 cm³