

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemSaxo 1.01996 to 1997

Type		TU9M/L3/L (CDZ) 37kW
Capacity (cm ³) / number of cylinders		954 / 4
Compression ratio / pressure	bar	9.4 / _
Oil pressure	bar	[≥4.0]
Oil temperature	°C	90
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	88
Radiator cap pressure	bar	1.4

Fuel systemSaxo 1.01996 to 1997

Idle speed - manual [auto]	rpm	850±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	%	≥11.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_ Bosch
Type / ref		MA3.1 Mono-Motronic
Main jet / needle		_
Injection pressure	bar	1.00
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemSaxo 1.01996 to 1997

Type		Static
Ignition coil		Bosch BAE 04
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	° Crankshaft @ rpm	Computer control
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		Bosch/Eyquem
Type		FR8LDC / RFC42LZ2E
Electrode gap	mm	0.90

Electrical systemSaxo 1.01996 to 1997

Battery	V / CC / RC	_
Alternator voltage / full load current / engine rpm		_
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearSaxo 1.01996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	_
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	155/70x13: 165/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	155: 2.3 / 2.0. 165: 2.2 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to -3.0. PAS: +1.0 to 3.0
Camber		-40'±30'
Castor		+2°13'±30'. PAS: +3°14'±30'
King pin inclination		+12°41'±40'. PAS: +12°42'±40'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.49 to 6.39
Camber		-59'±20'

Torque wrench settingsSaxo 1.01996 to 1997

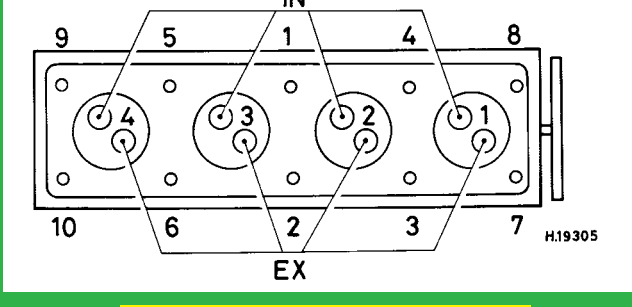
Cylinder head - stage 1	Nm	Bolts ≤176.5mm
- stage 2	Nm	20 oiled
Cylinder head - stage 3	Nm	+ 240±5°
- stage 4	Nm	_
Big-end bearings	Nm	38
Main bearings	Nm	M11: 20 + 45°. M6: 10
Clutch cover	Nm	13
Flywheel [driveplate]	Nm	65 LkC
Front hubs	Nm	250
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	25

CapacitiesSaxo 1.01996 to 1997

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.1
Fuel tank	litres	45

Notes and Illustrations

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954 cm³