

Engine & Cooling

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Automotive Technical
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Engine and cooling systemSaxo 1.11996 to 1997

Type	TU1M/L3/L (HDZ) 44kW	
Capacity (cm ³) / number of cylinders	1124 / 4	
Compression ratio / pressure	bar	9.7 / _
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 1.11996 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 1.11996 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	FR7LDC / RFC52LZ2E	
Electrode gap	mm	0.90

Electrical systemSaxo 1.11996 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 1.11996 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 1.11996 to 1997

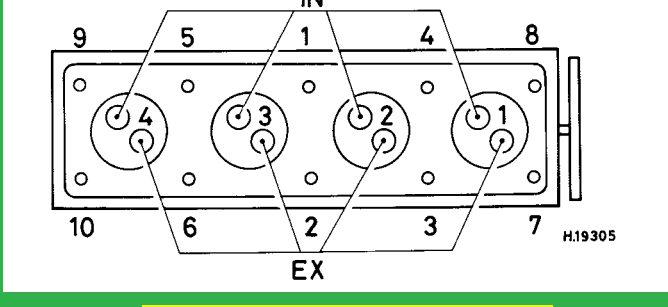
Cylinder head - stage 1	Nm	Bolts ≤176.5mm
- stage 2	Nm	20 oiled
Cylinder head - stage 3	Nm	+ 240±5°
- stage 4	Nm	_
Big-end bearings	Nm	38
Main bearings	Nm	M11: 20 + 45°. M6: 10
Clutch cover	Nm	13
Flywheel [driveplate]	Nm	65 LkC
Front hubs	Nm	250
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	85
Spark plugs	Nm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

CapacitiesSaxo 1.11996 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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1124 cm³