

Engine & Cooling

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Automotive Technical
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Engine and cooling system900 2.3i1993 to 1997

Type	B234i DOHC 16V 116kW	
Capacity (cm ³) / number of cylinders	2290 / 4	
Compression ratio / pressure	bar	10.5 / _
Oil pressure	bar	[2.7]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order	1-3-4-2	
No 1 cylinder position	TCE	
Thermostat opening temperature	°C	87 to 91
Radiator cap pressure	bar	0.9 to 1.2

Fuel system900 2.3i1993 to 1997

Idle speed - manual [auto]	rpm	900±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
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	Bosch	
Type / ref	M2.10.2-Motronic	
Main jet / needle	_	
Injection pressure	bar	3.0
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system900 2.3i1993 to 1997

Type	Direct electronic	
Ignition coil	Saab	
Primary resistance	ohms	_
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 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	NGK/Champion	
Type	BCPR6ES / C9YCC	
Electrode gap	mm	0.80

Electrical system900 2.3i1993 to 1997

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm	13.9 to 14.8 / 70 / 2500	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear900 2.3i1993 to 1997

Brakes -		
Front (min. friction material thickness)	mm	4.0
Rear (min. friction material thickness)	mm	4.0

Tyres		
Saloon	Size	195/60x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	1.5±0.5
Camber	-0°30'±20'	
Castor	2°08'±20'	
King pin inclination	13°18'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	1.0±2.0
Camber	-2°12'	

Torque wrench settings900 2.3i1993 to 1997

Cylinder head - stage 1	Nm	60
- stage 2	Nm	80
- stage 3	Nm	Warm up, then cool, slacken
- stage 4	Nm	80 + 90°
Big-end bearings	Nm	20 + 90°
Main bearings	Nm	20 + 90°
Clutch cover	Nm	22±2
Flywheel [driveplate]	Nm	60
Front hubs	Nm	290
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	90 to 110
Spark plugs	Nm	25 to 29

Capacities900 2.3i1993 to 1997

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.5
Automatic transmission - refill	litres	2.5 to 3.0
Final drive	litres	WT
Cooling system	litres	8.5
Fuel tank	litres	68

Notes and Illustrations

