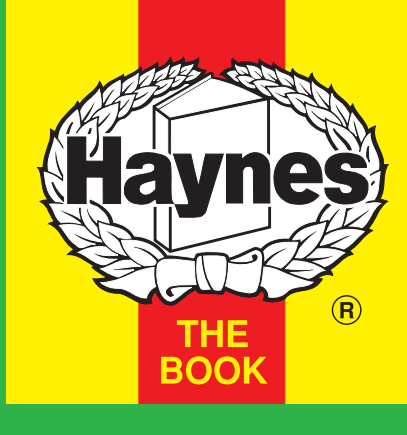


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU	HELP
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Engine and cooling system9000i 2.3 CAT1990 to 1993

Type	B234i DOHC 16V 110kW	
Capacity (cm³) / number of cylinders	2290 / 4	
Compression ratio / pressure	bar	10.1 / _
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	89±2
Radiator cap pressure	bar	0.9 to 1.2

Fuel system9000i 2.3 CAT1990 to 1993

Idle speed - manual [auto]	rpm	850
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Bosch	
Type / ref	LH2.4.1-Jetronic. 91 ►: 2.4.2	
Main jet / needle	_	
Injection pressure	bar	3.0
Pump pressure	bar	3.0
Octane rating	RON	91[U]

Ignition system9000i 2.3 CAT1990 to 1993

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
V = Vacuum NV = No Vacuum	_	
Total ignition advance	° Crankshaft @ rpm	_
	° 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	BCPR6ES	
Electrode gap	mm	1.0 to 1.1

Electrical system9000i 2.3 CAT1990 to 1993

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm	13.9 to 14.8 /70, 80 / 2500	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear9000i 2.3 CAT1990 to 1993

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

Tyres		
Saloon	Size	185/65x15: 195/65x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	WSM
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.5±0.5
Camber	-0.65°±0.5°	
Castor	+1.65°±0.5°	
King pin inclination	+11.3°±0.5°	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.5±1.5
Camber	-0.5°±0.25°	

Torque wrench settings9000i 2.3 CAT1990 to 1993

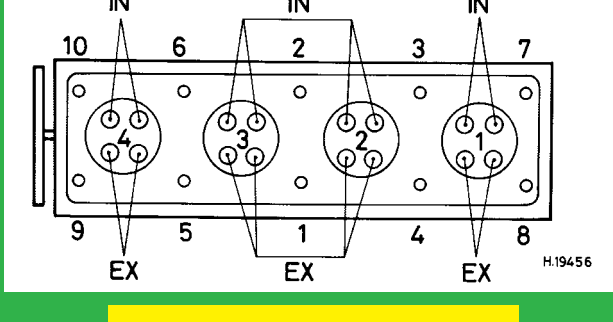
Cylinder head - stage 1	Nm	60
- stage 2	Nm	80
- stage 3	Nm	+90°
- stage 4	Nm	_
Big-end bearings	Nm	48
Main bearings	Nm	110
Clutch cover	Nm	22±2
Flywheel [driveplate]	Nm	60 ¹
Front hubs	Nm	280 to 300
Rear hubs	Nm	290±10
Wheel nuts / bolts	Nm	115±10
Spark plugs	Nm	28

Capacities9000i 2.3 CAT1990 to 1993

Engine oil & filter	litres	4.3
Gearbox - 4-speed [5-speed]	litres	2.5
Automatic transmission - refill	litres	3.0 to 3.5
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	68

Notes and Illustrations

¹19mm head bolt: 85



2290 cm³