Haynes THE BOOK

Automotive Technical DATA BOOK

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Engine and cooling system

		9000, Turbo 16 CAT 1986 to 1993
Type		B202 DOHC 16V turbo
Capacity (cm³) / number of cylinders		1985 / 4
Compression ratio / pressure	bar	9.0 / ≥10.0
Oil pressure	bar	[2.7]
Oil temperature	ºC	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	ºC	89±2
Radiator cap pressure	bar	0.9 to 1.2

Fuel system

		9000, Turbo 16 CAT 1986 to 1993
Idle speed - manual [auto]	rpm	850±75
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	≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	≥14.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LH2.2-Jetronic. 89 ▶: 2.4
Main jet / needle		_
Injection pressure	bar	2.5±0.15 87 ▶: 2.8
Pump pressure	bar	_
Octane rating	RON	91[U]

Ignition system

		9000, Turbo 16 CAT 1986 to 1993
Type		Electronic - Hall effect[1]
Ignition coil		Bosch
Primary resistance	ohms	0.52 to 0.76
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	º (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	º Crankshaft @ rpm	16 BTDC @ 850
V = Vacuum NV = No Vacuum		NV
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		NGK/Champion
Type		BCP7EV / C7GY
Electrode gap	mm	0.60 to 0.70

Electrical system

		9000, Turbo 16 CAT 1986 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	315 / 9.0
- locked	A / V	650 to 750 / 4.0

Running gear

		9000, Turbo 16 CAT 1986 to 1993
Brakes -		
Front (min. friction material thickness)	mm	4.0
Rear (min. friction material thickness)	mm	4.0
Tyres		
Saloon	Size	205/55x15:195/65x15:195/60x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	WSM
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	+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 [º]	+2.5±1.5
Camber		-0.25°±0.25°

Torque wrench settings

		9000, Turbo 16 CAT 1986 to 1993
Cylinder head - stage 1	Nm	60
- stage 2	Nm	80
- stage 3	Nm	+90°
- stage 4	Nm	_
Big-end bearings	Nm	55
Main bearings	Nm	110
Clutch cover	Nm	22±2
Flywheel [driveplate]	Nm	60[2]
Front hubs	Nm	270 to 290
Rear hubs	Nm	270 to 290
Wheel nuts / bolts	Nm	90 to 110
Spark plugs	Nm	25 to 29

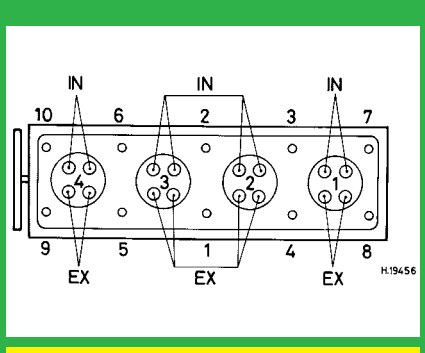
Capacities

		9000, Turbo 16 CAT 1986 to 1993
Engine oil & filter	litres	4.2
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

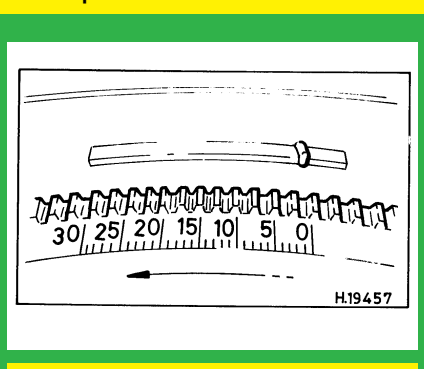
Notes and Illustrations

[1] **90 ▶: Saab direct ignition**
[2] **19mm head bolt: 85**

1: Idle speed 2: CO / Mixture



1985 cm³, 16V



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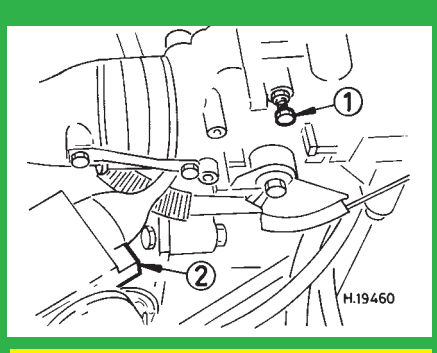

LH2.2 / 2.4-Jetronic