

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



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

Engine and cooling system9000i 16V CAT1986 to 1993

Type		B202i DOHC 16V ²
Capacity (cm ³) / number of cylinders		1985 / 4
Compression ratio / pressure	bar	10.1 / ≥10.0
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 16V CAT1986 to 1993

Idle speed - manual [auto]	rpm	850±50
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. 88 ►: 2.4
Main jet / needle		—
Injection pressure	bar	3.0±.015
Pump pressure	bar	3.0
Octane rating	RON	91[U]

Ignition system9000i 16V CAT1986 to 1993

Type		Computerized 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	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	14 BTDC @ 850
V = Vacuum NV = No Vacuum		NV
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/Champion
Type		BCP5ES / RC12YC
Electrode gap	mm	0.60 to 0.70

Electrical system9000i 16V CAT1986 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 gear9000i 16V CAT1986 to 1993

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

Tyres		
Saloon	Size	185/65x15:195/65x15:195/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	Refer to car
- 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		-0.25°±0.25°

Torque wrench settings9000i 16V CAT1986 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 ³
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

Capacities9000i 16V CAT1986 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

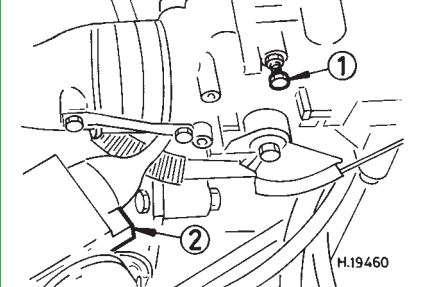
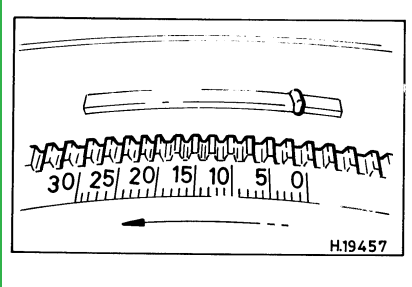
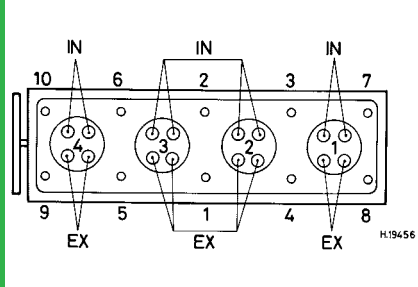
Notes and Illustrations

¹90 ►: Saab direct ignition

²86 ►88: 92kW. 89 ►93: 96kW

³19mm head bolt: 85

1: Idle speed2: CO / Mixture



1985 cm³, 16V1985 cm³, 16VLH2.2 / 2.4-Jetronic