

Engine & Cooling

Fuel

Ignition

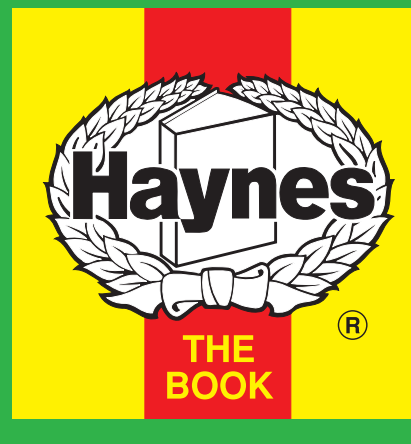
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical DATA BOOK

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Engine and cooling system

V40 1.8 1996 to 1997

Type		B4184S 16V 85kW
Capacity (cm ³) / number of cylinders		1731 / 4
Compression ratio / pressure	bar	10.5 / 11.0 to 13.0
Oil pressure	bar	1.0 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		—
Thermostat opening temperature	°C	90
Radiator cap pressure	bar	1.20 to 1.50

Fuel system

V40 1.8 1996 to 1997

Idle speed - manual [auto]	rpm	750 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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		_Siemens Bendix
Type / ref		Fenix 5.1 MPI
Main jet / needle		—
Injection pressure	bar	3.0
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

V40 1.8 1996 to 1997

Type		Direct electronic
Ignition coil		—
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	5° to 3° BTDC @ 750 WSM
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		—
Type		—
Electrode gap	mm	—

Electrical system

V40 1.8 1996 to 1997

Battery	V / CC / RC	12 / 62Ah
Alternator voltage / full load current / engine rpm		/ 100, 80 /
Starter motor current / voltage - cranking	A / V	≤300 / 8.1
- locked	A / V	≤600 / 6.5

Running gear

V40 1.8 1996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0
Tyres		
Saloon	Size	—
Estate / Van	Size	185/65x14:195/55x15:205/50x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	2.2 / 2.0

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[0°3'±6']
Camber		0°±1°
Castor		2°12'±1°
King pin inclination		12°41'±1°

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[0°6'+9'-3']
Camber		-0°40'±30'

Torque wrench settings

V40 1.8 1996 to 1997

Cylinder head - stage 1	Nm	20 ¹
- stage 2	Nm	60
- stage 3	Nm	+130°
- stage 4	Nm	—
Big-end bearings	Nm	20 +90°
Main bearings	Nm	WSM
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	45 +65° [45 +50°] oiled N
Front hubs	Nm	240
Rear hubs	Nm	175
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

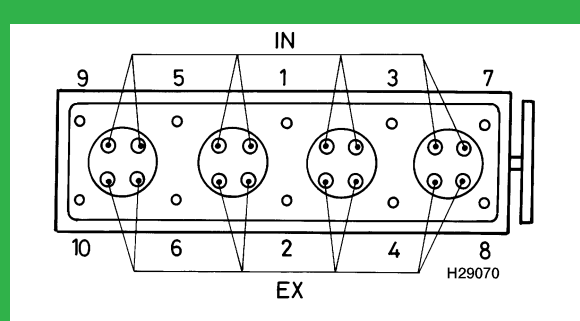
Capacities

V40 1.8 1996 to 1997

Engine oil & filter	litres	5.3
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	6.5
Final drive	litres	WT
Cooling system	litres	4.5 to 5.0
Fuel tank	litres	60

Notes and Illustrations

¹Bolt length: ≤158 mm



1731 cm³, 16V