

Engine & Cooling

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system323 1.8i1995 to 1997

Type		BP DOHC 16V 90kW
Capacity (cm ³) / number of cylinders		1840 / 4
Compression ratio / pressure	bar	9.0 / ≥9.8
Oil pressure	bar	1.0 to 2.0 [3.4 to 4.4]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	84 to 89
Radiator cap pressure	bar	0.75 to 1.05

Fuel system323 1.8i1995 to 1997

Idle speed - manual [auto]	rpm	750±50
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		L-Jetronic
Main jet / needle		—
Injection pressure	bar	2.7 to 3.2
Pump pressure	bar	4.5 to 6.0
Octane rating	RON	95[U]

Ignition system323 1.8i1995 to 1997

Type		Electronic
Ignition coil		—
Primary resistance	ohms	0.49 to 0.73
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	[0.40]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	10±1 BTDC @ 750±50
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/Nippon Denso
Type		BKR5E-11 / K16PRU-11
Electrode gap	mm	1.0 to 1.1

Electrical system323 1.8i1995 to 1997

Battery	V / CC / RC	12 / 50, 80Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 80 / —
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear323 1.8i1995 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	185/65x14: 195/55x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1. 195/55: 2.2 / 2.1
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	2.0±4.0
Camber		-44'±1°
Castor		1°55'±1° (3dr: 1°53'±1°)
King pin inclination		13°22'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	2.0±4.0
Camber		49'±1°

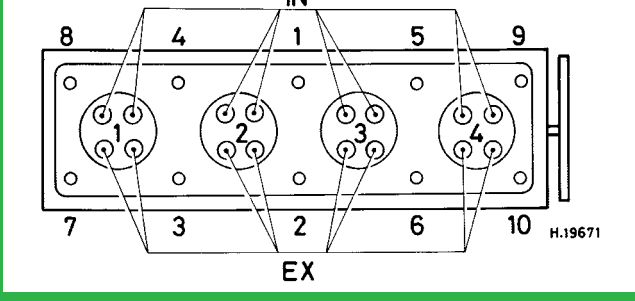
Torque wrench settings323 1.8i1995 to 1997

Cylinder head - stage 1	Nm	40
- stage 2	Nm	76 to 81
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	30 to 34
Main bearings	Nm	54 to 59
Clutch cover	Nm	18 to 26
Flywheel [driveplate]	Nm	97 to 102
Front hubs	Nm	235 to 319
Rear hubs	Nm	177 to 235
Wheel nuts / bolts	Nm	118
Spark plugs	Nm	15 to 23

Capacities323 1.8i1995 to 1997

Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	2.7
Automatic transmission - refill	litres	4.9
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	55

Notes and Illustrations



1840 cm³