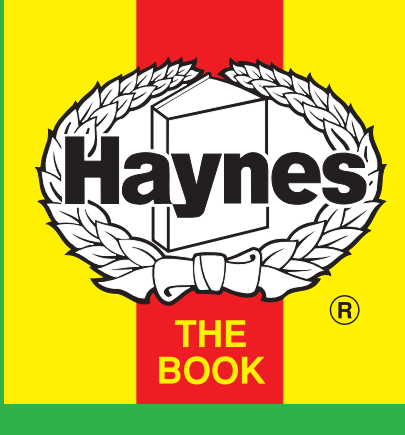


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive
Technical
DATA
BOOK

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.

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Engine and cooling systemZ3 1.81996 to 1997

Type		85kW
Capacity (cm³) / number of cylinders		1796 / 4
Compression ratio / pressure	bar	9.7 / ≥10.0
Oil pressure	bar	≥0.5 [4.3]
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		TCE
Thermostat opening temperature	°C	95
Radiator cap pressure	bar	1.4

Fuel systemZ3 1.81996 to 1997

Idle speed - manual [auto]	rpm	900±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
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		BMS 43
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition systemZ3 1.81996 to 1997

Type		Direct electronic
Ignition coil		—
Primary resistance	ohms	0.8
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	—
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs		—
Type		—
Electrode gap	mm	—

Electrical systemZ3 1.81996 to 1997

Battery	V / CC / RC	12 / 70Ah
Alternator voltage / full load current / engine rpm		_ / 80 / _
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearZ3 1.81996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	3.0

Tyres		
Saloon	Size	205/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	Refer to vehicle
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—
Castor		—
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	—
Camber		—

Torque wrench settingsZ3 1.81996 to 1997

Cylinder head - stage 1	Nm	30 N
- stage 2	Nm	+90°
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	—
Big-end bearings	Nm	5, 20+70°
Main bearings	Nm	20+50°
Clutch cover	Nm	34
Flywheel [driveplate]	Nm	120
Front hubs	Nm	290
Rear hubs	Nm	250
Wheel nuts / bolts	Nm	100±10
Spark plugs	Nm	30 to 33

CapacitiesZ3 1.81996 to 1997

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	1.1
Automatic transmission - refill	litres	—
Final drive	litres	1.1
Cooling system	litres	6.4
Fuel tank	litres	51

Notes and Illustrations

