

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system323i E361996 to 1997

Type	M52 B25 DOHC 24V 125kW	
Capacity (cm³) / number of cylinders	2494 / 6	
Compression ratio / pressure	bar	10.5 / ≥10.0
Oil pressure	bar	≥0.5 / 4.0
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-5-3-6-2-4	
No 1 cylinder position	—	
Thermostat opening temperature	°C	92
Radiator cap pressure	bar	—

Fuel system323i E361996 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	DME Motronic MS 41.0	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	3.5
Octane rating	RON	95[U]

Ignition system323i E361996 to 1997

Type	DME Motronic	
Ignition coil	—	
Primary resistance	ohms	0.37 to 0.5
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	Bosch	
Type	F7LDCR	
Electrode gap	mm	0.7

Electrical system323i E361996 to 1997

Battery	V / CC / RC	12 / 65Ah
Alternator voltage / full load current / engine rpm	14.3 / 80 / _	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear323i E361996 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 [°]	[0°18'±8']
Camber	-0°30'±30'	
Castor	3°52'±30'	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0°24'±6']
Camber	-1°40'±15'	

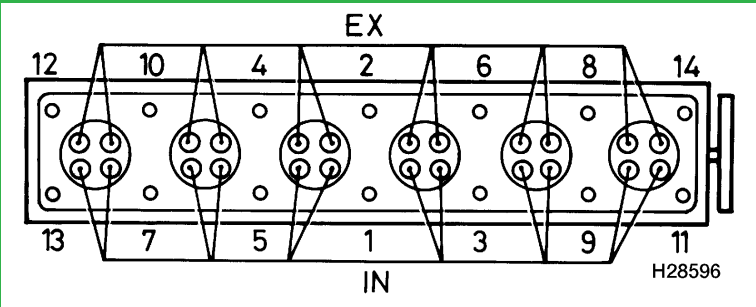
Torque wrench settings323i E361996 to 1997

Cylinder head - stage 1	Nm	40
- stage 2	Nm	+90°
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	—
Big-end bearings	Nm	5, 20+70°
Main bearings	Nm	20+70°
Clutch cover	Nm	24
Flywheel [driveplate]	Nm	105
Front hubs	Nm	4
Rear hubs	Nm	300
Wheel nuts / bolts	Nm	100±10
Spark plugs	Nm	—

Capacities323i E361996 to 1997

Engine oil & filter	litres	6.5
Gearbox - 4-speed [5-speed]	litres	1.7
Automatic transmission - refill	litres	—
Final drive	litres	1.1
Cooling system	litres	10.5
Fuel tank	litres	62

Notes and Illustrations



2494 cm³ 24V