

Engine & Cooling

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Automotive Technical
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Engine and cooling system

E320

1995 to 1997

Type	DOHC 24V 162kW	
Capacity (cm ³) / number of cylinders	3199 / 6	
Compression ratio / pressure	bar	10.0 / ≥12.0
Oil pressure	bar	0.3 [3.0]
Oil temperature	°C	90
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-5-3-6-2-4	
No 1 cylinder position	F	
Thermostat opening temperature	°C	
Radiator cap pressure	bar	

Fuel system

E320

1995 to 1997

Idle speed - manual [auto]	rpm	—
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	—	
Type / ref		
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

E320

1995 to 1997

Type	Computerized	
Ignition coil	—	
Primary resistance	ohms	—
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	Battery
Distributor	—	
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	—	
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control N/A
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

E320

1995 to 1997

Battery	V / CC / RC	12 / 190 / 74Ah
Alternator voltage / full load current / engine rpm	14.0 / 90 / 2490	
Starter motor current / voltage - cranking	A / V	95 / 11.5 (no load)
- locked	A / V	650 to 840 / 3.8

Running gear

E320

1995 to 1997

Brakes -		
Front (min. friction material thickness)	mm	3.5
Rear (min. friction material thickness)	mm	2.5

Tyres		
Saloon	Size	215/55x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	—
- 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 settings

E320

1995 to 1997

Cylinder head - stage 1	Nm	55. Bolt length ≤167.2mm
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	30 + 90 to 100°
Main bearings	Nm	55 + 90 to 100°
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	30 + 90 to 100°
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities

E320

1995 to 1997

Engine oil & filter	litres	—
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	—
Final drive	litres	—
Cooling system	litres	—
Fuel tank	litres	80

Notes and Illustrations

