

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

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Engine and cooling system S320 (140.032/3) 1993 to 1997

Type		104.994 DOHC 24V 170kW
Capacity (cm ³) / number of cylinders		3199 / 6
Compression ratio / pressure	bar	10.0 / 13.5 to 15.5
Oil pressure	bar	0.3 [3.0 @ 3000rpm]
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		F
Thermostat opening temperature	°C	87±2
Radiator cap pressure	bar	1.40±0.10

Fuel system S320 (140.032/3) 1993 to 1997

Idle speed - manual [auto]	rpm	650 to 750
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		_ Bosch
Type / ref		HFM
Main jet / needle		—
Injection pressure	bar	3.7 to 4.2
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system S320 (140.032/3) 1993 to 1997

Type		Computerized
Ignition coil		—
Primary resistance	ohms	0.3 to 0.6
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		Bosch/Champion
Type		F8DCO / C10YCC
Electrode gap	mm	0.80

Electrical system S320 (140.032/3) 1993 to 1997

Battery	V / CC / RC	12 / 74Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.0 / 120 / _
Starter motor current / voltage - cranking	A / V	95/11.5
- locked	A / V	—

Running gear S320 (140.032/3) 1993 to 1997

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

Tyres		
Saloon	Size	235/60x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.4 / 2.5
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+35' ± 10']
Camber		- 0°20' ± 10
Castor		10°20' ± 30'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+35' ± 10']
Camber		—

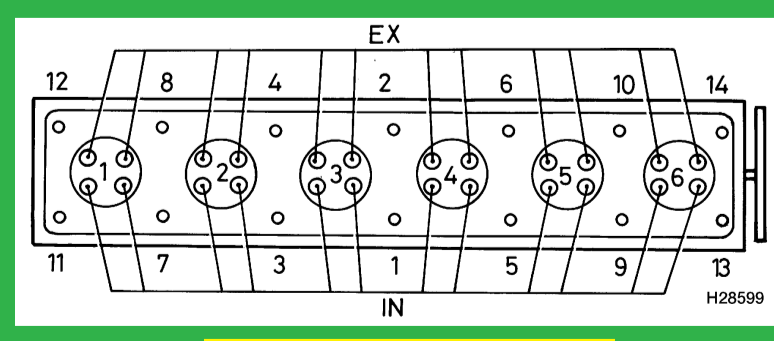
Torque wrench settings S320 (140.032/3) 1993 to 1997

Cylinder head - stage 1	Nm	55
- 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	25
Flywheel [driveplate]	Nm	30, + 90 to 100°
Front hubs	Nm	WSM
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	150
Spark plugs	Nm	25

Capacities S320 (140.032/3) 1993 to 1997

Engine oil & filter	litres	7.5
Gearbox - 4-speed [5-speed]	litres	[1.7]
Automatic transmission - refill	litres	6.2
Final drive	litres	1.3
Cooling system	litres	14.5
Fuel tank	litres	100

Notes and Illustrations



3199 cm³, 24V