

Engine & Cooling

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Automotive Technical
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Engine and cooling system

C220 (202.022)

1993 to 1997

Type		111.961 DOHC 16V 110kW
Capacity (cm³) / number of cylinders		2199 / 4
Compression ratio / pressure	bar	10.0 / ≥10.5
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		1-3-4-2
No 1 cylinder position		F
Thermostat opening temperature	°C	87 ± 2°
Radiator cap pressure	bar	1.40 ± 0.10

Fuel system

C220 (202.022)

1993 to 1997

Idle speed - manual [auto]	rpm	700 to 800 N/A
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		HFM
Main jet / needle		—
Injection pressure	bar	3.2 to 36
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

C220 (202.022)

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

C220 (202.022)

1993 to 1997

Battery	V / CC / RC	12V 62AH
Alternator voltage / full load current / engine rpm		14.0 / 90 / _
Starter motor current / voltage - cranking	A / V	75 / 11.5
- locked	A / V	—

Running gear

C220 (202.022)

1993 to 1997

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

Tyres		
Saloon	Size	195/65x15: 205/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.3
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+20' ± 10']
Camber		- 35' ± 20'. Sport: -55'±20'
Castor		4°40'±30. Sport: 5°10'±30'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+0°33' ± 7'
Camber		—

Torque wrench settings

C220 (202.022)

1993 to 1997

Cylinder head - stage 1	Nm	55. Bolt length ≤105mm
- 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	200 to 240
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25 to 30

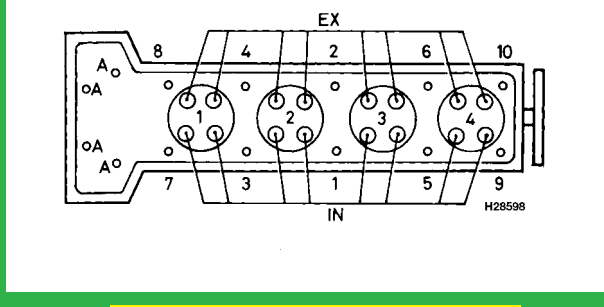
Capacities

C220 (202.022)

1993 to 1997

Engine oil & filter	litres	5.8
Gearbox - 4-speed [5-speed]	litres	1.5
Automatic transmission - refill	litres	5.5
Final drive	litres	1.1
Cooling system	litres	8.3
Fuel tank	litres	62

Notes and Illustrations



2199 cm³, DOHC 16V