

Engine & Cooling

Fuel

Ignition

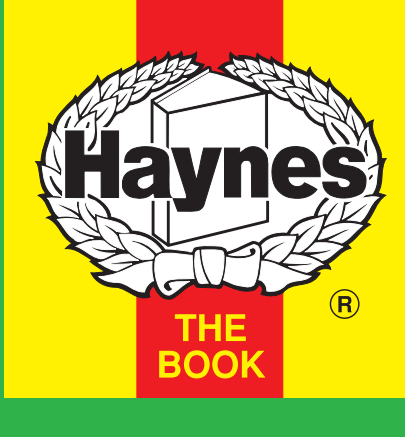
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



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.

MENU

HELP

Engine and cooling system

E220 (124.022/42/62/82)

1992 to 1997

Type		111.960 DOHC 16V 110kW
Capacity (cm³) / number of cylinders		2199 / 4
Compression ratio / pressure	bar	10.0 / _
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		1-3-4-2
No 1 cylinder position		F
Thermostat opening temperature	°C	87±2
Radiator cap pressure	bar	1.40±0.10

Fuel system

E220 (124.022/42/62/82)

1992 to 1997

Idle speed - manual [auto]	rpm	700 to 800
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 MPI
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

E220 (124.022/42/62/82)

1992 to 1997

Type		Electronic
Ignition coil		Bosch
Primary resistance	ohms	0.3 to 0.6
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	Battery
Distributor		Bosch
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

E220 (124.022/42/62/82)

1992 to 1997

Battery	V / CC / RC	12 / 190 / 62, 100Ah
Alternator voltage / full load current / engine rpm		14.0 / 70, 80 / 2490
Starter motor current / voltage - cranking	A / V	95 / 11.5 (no load)
- locked	A / V	650 to 840 / 3.8

Running gear

E220 (124.022/42/62/82)

1992 to 1997

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

Tyres		
Saloon	Size	195/65x15
Estate / Van	Size	195/65x15
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	2.0 / 2.5

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+20'±10']
Camber		-25'+10'-20'
Castor		+10°25'±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	[+20' to 35']
Camber		-1°30'±30'

Torque wrench settings

E220 (124.022/42/62/82)

1992 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	20

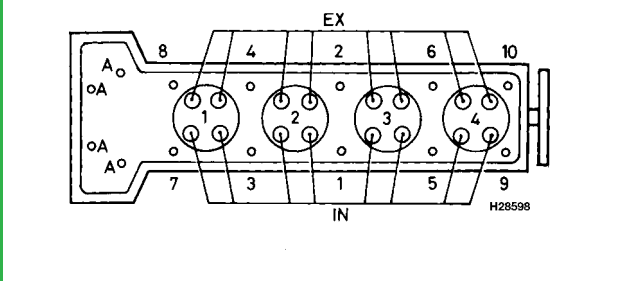
Capacities

E220 (124.022/42/62/82)

1992 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	8.5
Fuel tank	litres	70

Notes and Illustrations



2199 cm³, DOHC 16V