

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 E280 CAT (124.028/088) 1992 to 1996

Type		104.942 DOHC 24V 147kW
Capacity (cm <sup>3</sup> ) / number of cylinders		2799 / 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	87±2
Radiator cap pressure	bar	1.40±0.10

### Fuel system E280 CAT (124.028/088) 1992 to 1996

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 <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch
Type / ref		HFM MPFI
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	6.2 to 6.4
Octane rating	RON	95[U]

### Ignition system E280 CAT (124.028/088) 1992 to 1996

Type		Computerized
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	° (%)	1 to 30 @ starter speed
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
Type		F8DCO
Electrode gap	mm	0.80

### Electrical system E280 CAT (124.028/088) 1992 to 1996

Battery	V / CC / RC	12 / 190 / 62Ah
Alternator voltage / full load current / engine rpm		14.0 / 80, 90 / 2490
Starter motor current / voltage - cranking	A / V	95 / 11.5 (no load)
- locked	A / V	650 to 840 / 3.8

### Running gear E280 CAT (124.028/088) 1992 to 1996

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	3.5
Rear (min. friction material thickness)	mm	2.5

<b>Tyres</b>		
Saloon	Size	195/65x15
Estate / Van	Size	195/65x15
Pressure - front / rear - Saloon	bar	2.3 / 2.3
- 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'

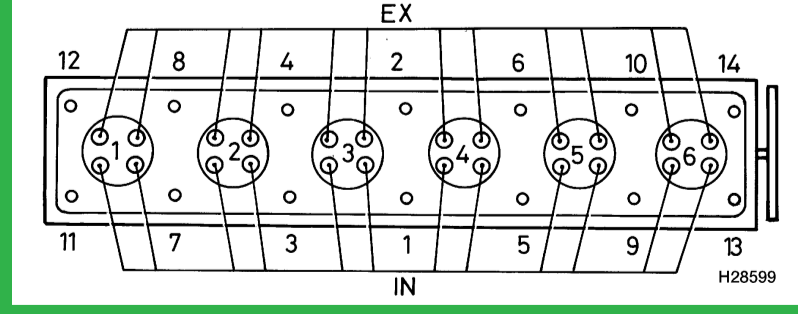
### Torque wrench settings E280 CAT (124.028/088) 1992 to 1996

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	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	30

### Capacities E280 CAT (124.028/088) 1992 to 1996

Engine oil & filter	litres	7.5
Gearbox - 4-speed [5-speed]	litres	1.5
Automatic transmission - refill	litres	6.0
Final drive	litres	1.3
Cooling system	litres	9.0
Fuel tank	litres	70. Estate: 72

### Notes and Illustrations



2799 cm<sup>3</sup>, 24V