

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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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 S280 (140.028) 1993 to 1997

Type		104.944 DOHC 24V 142kW
Capacity (cm ³) / number of cylinders		2799 / 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 S280 (140.028) 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 MPI
Main jet / needle		—
Injection pressure	bar	3.7 to 4.2
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system S280 (140.028) 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 S280 (140.028) 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 S280 (140.028) 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		- 20' ± 10'
Castor		10°20' ± 30'
King pin inclination		—

Rear suspension / wheel alignment

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

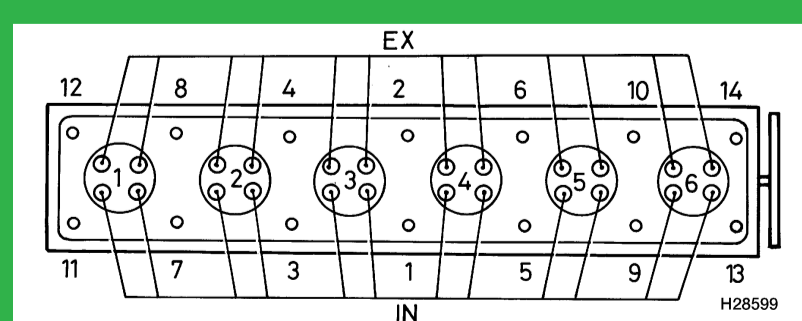
Torque wrench settings S280 (140.028) 1993 to 1997

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	320
Wheel nuts / bolts	Nm	150
Spark plugs	Nm	25

Capacities S280 (140.028) 1993 to 1997

Engine oil & filter	litres	7.5
Gearbox - 4-speed [5-speed]	litres	1.5
Automatic transmission - refill	litres	6.2
Final drive	litres	1.3
Cooling system	litres	13.0
Fuel tank	litres	100

Notes and Illustrations



2799 cm³, DOHC 24V