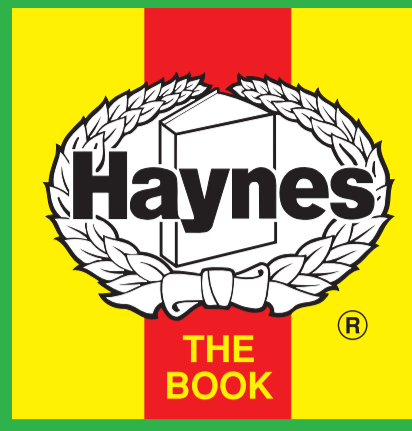


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Automotive Technical DATA BOOK

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Engine and cooling system 850 Ci (E31) 1994 to 1996

Type	M70/B50 240kW
Capacity (cm ³) / number of cylinders	5379 / 12
Compression ratio / pressure	bar 10.0 / ≥10.0
Oil pressure	bar 0.5 [4.0]
Oil temperature	°C 80
Valve clearance - inlet	mm 0: Hyd.
Valve clearance - exhaust	mm 0: Hyd.
Firing order	1-7-5-11-3-9-6-12-2-8-4-10
No 1 cylinder position	PER
Thermostat opening temperature	°C 80
Radiator cap pressure	bar 2.0±0.1

Fuel system 850 Ci (E31) 1994 to 1996

Idle speed - manual [auto]	rpm	700±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3 N/A
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		DME M5.2-Motronic
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	3.0±0.06
Octane rating	RON	95[U]

Ignition system 850 Ci (E31) 1994 to 1996

Type	DME Motronic	
Ignition coil	—	
Primary resistance	ohms	a: 0.50. b: 0.37
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
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
Type		F8LCR
Electrode gap	mm	0.70 to 0.80

Electrical system 850 Ci (E31) 1994 to 1996

Battery	V / CC / RC	12 / 130Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.2 / 140 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear 850 Ci (E31) 1994 to 1996

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

Tyres		
Saloon	Size	235/50x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.5 / 2.5
- Estate / Van	bar	—

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+18'±5']
Camber		-11'±30'
Castor		+8°14'±30'
King pin inclination		—

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+18'±6']
Camber		-1°10'±15'

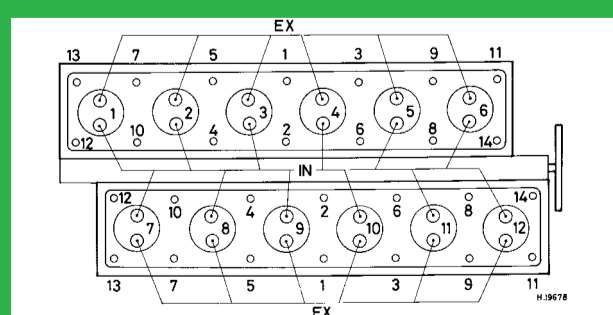
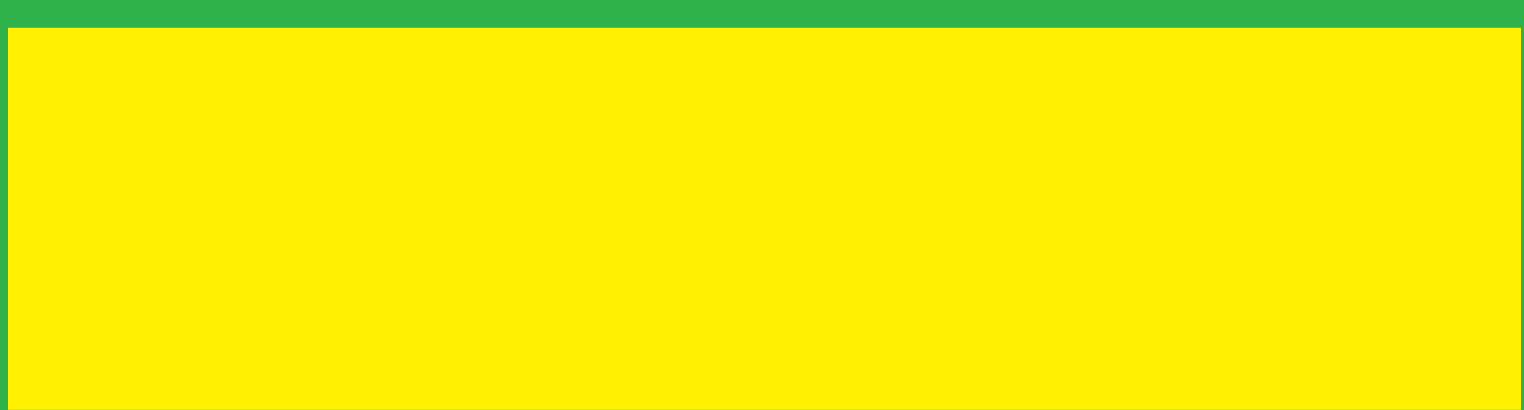
Torque wrench settings 850 Ci (E31) 1994 to 1996

Cylinder head - stage 1	Nm	TORX: 30±2
- stage 2	Nm	+ 120°
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	23 + 70° N
Main bearings	Nm	20 + 70°
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	105±5
Front hubs	Nm	290
Rear hubs	Nm	300
Wheel nuts / bolts	Nm	100±10
Spark plugs	Nm	30 to 33

Capacities 850 Ci (E31) 1994 to 1996

Engine oil & filter	litres	8.0
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	3.5
Final drive	litres	1.9
Cooling system	litres	13.0
Fuel tank	litres	90

Notes and Illustrations



5379 cm³, M70