

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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Engine and cooling system 850, 2.5i 20V 1992 to 1997

Type	B5254S DOHC 20V 125kW	
Capacity (cm ³) / number of cylinders	2435 / 5	
Compression ratio / pressure	bar	10.5 (Motronic: 10.3) / ≥13.0
Oil pressure	bar	1.0 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order	1-2-4-5-3	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	87 to 102 or 90 to 105
Radiator cap pressure	bar	1.50

Fuel system 850, 2.5i 20V 1992 to 1997

Idle speed - manual [auto]	rpm	800±50. 94 ▶: 850±50 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.6±0.2 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	LH3.2-Jetronic / M4.3-Motronic	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system 850, 2.5i 20V 1992 to 1997

Type	EZ 129K	
Ignition coil	Bosch. Volvo.	
Primary resistance	ohms	0.5±10%. 93 ▶: 0.5 to 1.5
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	Bosch	
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	—	
Ignition timing - basic [static	° Crankshaft @ rpm	10±2 BTDC @ 800±50 N/A ¹
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	FR6DC. 93 ▶: FR7DC	
Electrode gap	mm	0.70 to 0.80

Electrical system 850, 2.5i 20V 1992 to 1997

Battery	V / CC / RC	12 / 440 / 85, 520 / 100 ²
Alternator voltage / full load current / engine rpm	14 / 80, 100, 108 / 3000	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	475 to 600/3.5, 650 to 840/3.0

Running gear 850, 2.5i 20V 1992 to 1997

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	195/60x15:205/55x15:185/65x15
Estate / Van	Size	195/60x15:205/55x15:185/65x15
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	2.2 / 2.1

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+20'±6']
Camber		0±1°
Castor		+3°20'±1°
King pin inclination		—

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+4'±10']
Camber		-1°±30'

Torque wrench settings 850, 2.5i 20V 1992 to 1997

Cylinder head - stage 1	Nm	20 oiled
- stage 2	Nm	60
- stage 3	Nm	+ 130°
- stage 4	Nm	—
Big-end bearings	Nm	20 + 90°
Main bearings	Nm	³
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	45 + 65°
Front hubs	Nm	120 + 60°
Rear hubs	Nm	120 + 30°
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities 850, 2.5i 20V 1992 to 1997

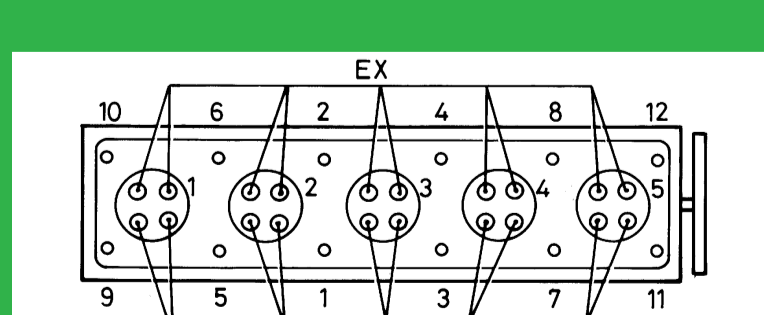
Engine oil & filter	litres	5.3
Gearbox - 4-speed [5-speed]	litres	2.1
Automatic transmission - refill	litres	3.0
Final drive	litres	WT
Cooling system	litres	7.2
Fuel tank	litres	73

Notes and Illustrations

¹Motronic: 5±2 BTDC @ 850±50 N/A

²95 ▶: 12 / 420 / 75, 520 / 90

³M10: 20, then M10: 45, then M8: 24, then M7: 17, then M10: +90°



2435 cm³, 20V