

Engine & Cooling

Fuel

Ignition

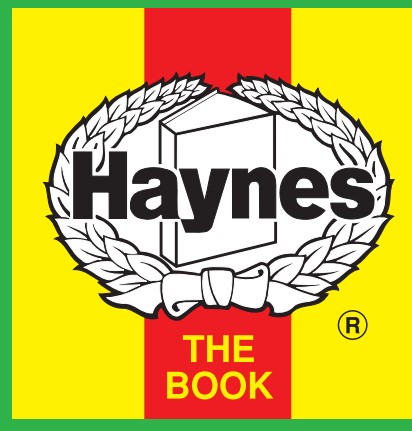
Electrical

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 850, 2.5i 10V 1993 to 1997

Type	B5252S SOHC 10V 103kW ¹	
Capacity (cm ³) / number of cylinders	2435 / 5	
Compression ratio / pressure	bar	10.0 / ≥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 10V 1993 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	Siemens Bendix	
Type / ref	Fenix 5.2 SEFI	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system 850, 2.5i 10V 1993 to 1997

Type	Fenix 5.2	
Ignition coil	Bosch. Volvo	
Primary resistance	ohms	0.5±10%. 94 ▶: 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 V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	10±2 BTDC @ 800±50 N/A
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	FR7DC / RC9YC	
Electrode gap	mm	0.70 to 0.80

Electrical system 850, 2.5i 10V 1993 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 10V 1993 to 1997

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

Tyres

Saloon	Size	185/65x15:195/60x15: 205/55x15
Estate / Van	Size	185/65x15:195/60x15: 205/55x15
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'

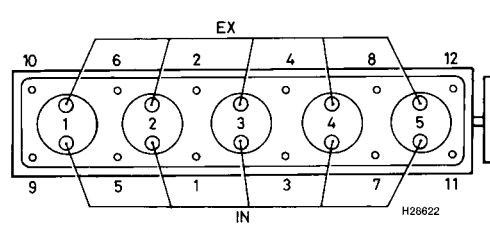
Torque wrench settings 850, 2.5i 10V 1993 to 1997

Cylinder head - stage 1	Nm	20
- 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 10V 1993 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

¹95 ▶: 106kW²95 ▶: 12 / 420 / 75, 520 / 90³M10: 20, then M10: 45, then M8: 24, then M7: 17, then M10: +90°2435 cm³, 10V