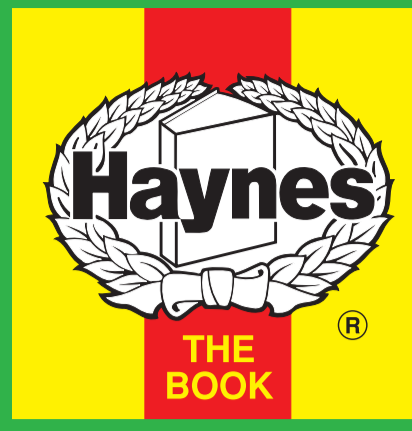


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Automotive Technical DATA BOOK

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Engine and cooling system Safrane 2.2i 12V CAT (B543) 1993 to 1997

Type	J7T-7-60 [AT: J7T-7-61]	
Capacity (cm ³) / number of cylinders	2165 / 4	
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	1.25 [3.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10 to 0.15
Valve clearance - exhaust	mm	0.20 to 0.25
Firing order	1-3-4-2	
No 1 cylinder position	FE	
Thermostat opening temperature	°C	83
Radiator cap pressure	bar	0.8 to 1.2

Fuel system Safrane 2.2i 12V CAT (B543) 1993 to 1997

Idle speed - manual [auto]	rpm	825±50 [775±50] N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤100
CO ₂ @ idle speed [3000 rpm] - see page VI	%	≥14.5
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Siemens Bendix	
Type / ref	MPI	
Main jet / needle	_	
Injection pressure	bar	2.5±0.2
Pump pressure	bar	3.0±0.2
Octane rating	RON	91[U]

Ignition system Safrane 2.2i 12V CAT (B543) 1993 to 1997

Type	Computerized	
Ignition coil	Renix	
Primary resistance	ohms	0.4 to 0.8
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 V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	Computer control 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	Eyquem/NGK	
Type	FC62LS3 / BCP6ET	
Electrode gap	mm	1.20 N/A

Electrical system Safrane 2.2i 12V CAT (B543) 1993 to 1997

Battery	V / CC / RC	12 / _
Alternator voltage / full load current / engine rpm	_	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear Safrane 2.2i 12V CAT (B543) 1993 to 1997

Brakes -		
Front (min. friction material thickness)	mm	6.0 with backing
Rear (min. friction material thickness)	mm	6.0 with backing

Tyres		
Saloon	Size	195/65x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.5 / 2.3
- Estate / Van	bar	_

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-2.0±1.0
Camber	-27'±30' N/A	
Castor	+4°8'±30' N/A	
King pin inclination	+8°57'±30' N/A	

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+2.0±1.0 N/A
Camber	-55' N/A	

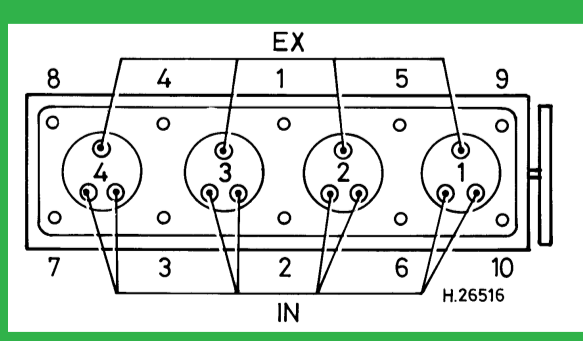
Torque wrench settings Safrane 2.2i 12V CAT (B543) 1993 to 1997

Cylinder head - stage 1	Nm	20
- stage 2	Nm	+ 80°
Cylinder head - stage 3	Nm	Wait 3 mins.
- stage 4	Nm	+ 80°
Big-end bearings	Nm	60 to 65
Main bearings	Nm	88 to 98
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60
Front hubs	Nm	250
Rear hubs	Nm	165
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	_

Capacities Safrane 2.2i 12V CAT (B543) 1993 to 1997

Engine oil & filter	litres	6.1
Gearbox - 4-speed [5-speed]	litres	2.3 to 2.8
Automatic transmission - refill	litres	4.0
Final drive	litres	WT. AT: 1.5
Cooling system	litres	7.0 to 7.2
Fuel tank	litres	80

Notes and Illustrations



2165 cm³, 12V