

Engine & Cooling

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Engine and cooling system

Safrane 3.0i V6 CAT (B544)

1993 to 1997

Type		Z7X-7-22 [AT: Z7X-7-23] 123kW
Capacity (cm³) / number of cylinders		2975 / 6
Compression ratio / pressure	bar	9.6 / _
Oil pressure	bar	2.2 [4.8]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.10
Valve clearance - exhaust	mm	0.25
Firing order		1-6-3-5-2-4
No 1 cylinder position		RL
Thermostat opening temperature	°C	83
Radiator cap pressure	bar	0.8 to 1.2

Fuel system

Safrane 3.0i V6 CAT (B544)

1993 to 1997

Idle speed - manual [auto]	rpm	700±50 [750±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
CO2 @ idle speed [3000 rpm] - see page VI	%	≥14.5
O2 @ 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 3.0i V6 CAT (B544)

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	° 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		Eyquem
Type		RCF58LS3
Electrode gap	mm	1.20 N/A

Electrical system

Safrane 3.0i V6 CAT (B544)

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 3.0i V6 CAT (B544)

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: 205/60x15
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 3.0i V6 CAT (B544)

1993 to 1997

Cylinder head - stage 1	Nm	60
- stage 2	Nm	Wait 3 mins, then -360°
Cylinder head - stage 3	Nm	40
- stage 4	Nm	+ 180°
Big-end bearings	Nm	42
Main bearings	Nm	30 + 75°
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	47.5
Front hubs	Nm	250
Rear hubs	Nm	165. 4x4: 210
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	_

Capacities

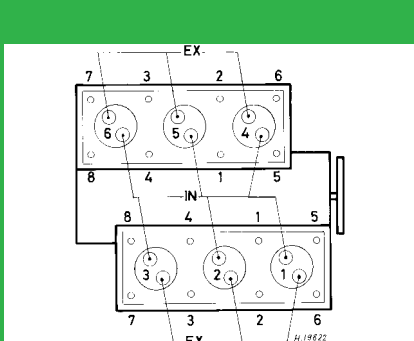
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1993 to 1997

Engine oil & filter	litres	7.0
Gearbox - 4-speed [5-speed]	litres	2.3 to 2.8. 4x4: 2.9 to 3.4
Automatic transmission - refill	litres	4.0
Final drive	litres	AT: 1.5. 4x4: 1.1
Cooling system	litres	10.0
Fuel tank	litres	80

Notes and Illustrations

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2975 cm³