

Engine & Cooling

Fuel

Ignition

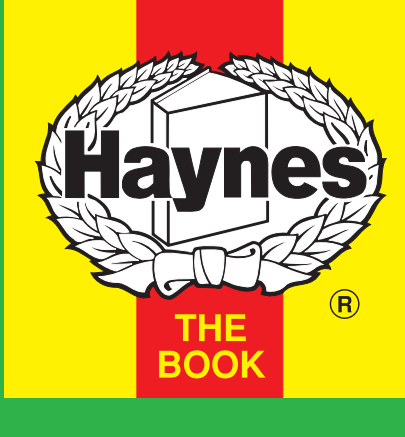
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

ZX 1.6i CAT

1994 to 1997

Type		XU5JPL/Z/L3 (BFZ) 65kW EEC96
Capacity (cm ³) / number of cylinders		1580 / 4
Compression ratio / pressure	bar	9.25 / _
Oil pressure	bar	[5.3]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20±0.05
Valve clearance - exhaust	mm	0.40±0.05
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	89 to 101
Radiator cap pressure	bar	1.4

Fuel system

ZX 1.6i CAT

1994 to 1997

Idle speed - manual [auto]	rpm	850±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	_
HC @ idle speed [3000 rpm] - see page VI	ppm	_
CO2 @ idle speed [3000 rpm] - see page VI	%	≥11.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_Magneti-Marelli ¹
Type / ref		MMDCM 8P-13 MPI ¹
Main jet / needle		_
Injection pressure	bar	2.8 to 3.2. Sagem: 2.5
Pump pressure	bar	2.8 to 3.2
Octane rating	RON	95[U]

Ignition system

ZX 1.6i CAT

1994 to 1997

Type		Static
Ignition coil		BAE04 4 output
Primary resistance	ohms	0.5 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		Bosch/Eyquem
Type		FR8LDC / RFC42LS2E
Electrode gap	mm	0.80 to 0.90

Electrical system

ZX 1.6i CAT

1994 to 1997

Battery	V / CC / RC	12 L1 200/250/300
Alternator voltage / full load current / engine rpm		13.8 to 14.5 / 80 / 3600
Starter motor current / voltage - cranking	A / V	300
- locked	A / V	_

Running gear

ZX 1.6i CAT

1994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	175/65x14: 175/60x14
Estate / Van	Size	175/65x14
Pressure - front / rear - Saloon	bar	2.2 / 2.1
- Estate / Van	bar	Refer to car

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to -3.0. PAS: +1.0 to 3.0
Camber		0±40'
Castor		+1°30'±40'. PAS: +3°±40'
King pin inclination		+10°45'±40'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.5 to 6.0
Camber		-1°±40'

Torque wrench settings

ZX 1.6i CAT

1994 to 1997

Cylinder head - stage 1	Nm	60
- stage 2	Nm	Slacken
Cylinder head - stage 3	Nm	20
- stage 4	Nm	+300°
Big-end bearings	Nm	40, slacken, then 20 + 70°
Main bearings	Nm	55
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	320
Rear hubs	Nm	200
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25

Capacities

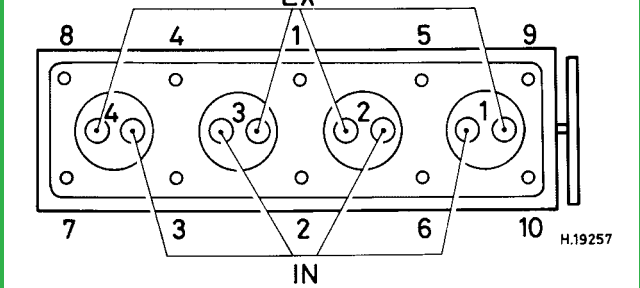
ZX 1.6i CAT

1994 to 1997

Engine oil & filter	litres	4.75
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.5
Fuel tank	litres	56. 96 ►: 54

Notes and Illustrations

¹95 ►: Sagem/Lucas 4GJ or CCM4J MPI



1580 cm³