

Engine & Cooling

Fuel

Ignition

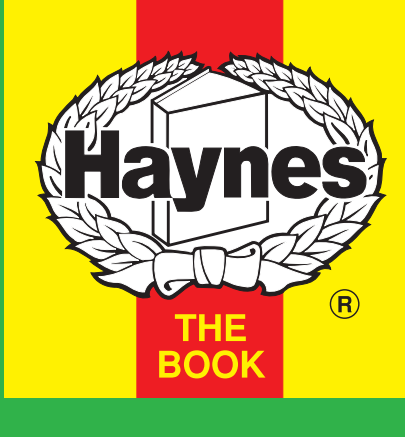
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system ZX 1.1i 1996 to 1997

Type	TU1M+/L3 (HDZ) 44.1kW	
Capacity (cm³) / number of cylinders	1124 / 4	
Compression ratio / pressure	bar	9.7 / _
Oil pressure	bar	[3.0 to 4.0]
Oil temperature	°C	90
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	88
Radiator cap pressure	bar	1.4

Fuel system ZX 1.1i 1996 to 1997

Idle speed - manual [auto]	rpm	850±50 N/A
Fast idle speed - manual [auto]	rpm	1500
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	%	≥9.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Bosch	
Type / ref	MA3.1-Mono-Motronic	
Main jet / needle	_	
Injection pressure	bar	0.70 to 0.90
Pump pressure	bar	1.00
Octane rating	RON	95[U]

Ignition system ZX 1.1i 1996 to 1997

Type	Electronic	
Ignition coil	Bosch / Bendix BAE 04	
Primary resistance	ohms	0.5 to 0.8
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	Bosch/Ducellier	
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	Anticlockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	_
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 / RFC42LZ2E	
Electrode gap	mm	0.90

Electrical system ZX 1.1i 1996 to 1997

Battery	V / CC / RC	(12L1 200, 12L1 250)
Alternator voltage / full load current / engine rpm	13.8 to 14.5 / 70 / 1800	
Starter motor current / voltage - cranking	A / V	275 / 12
- locked	A / V	220 / _

Running gear ZX 1.1i 1996 to 1997

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

Tyres		
Saloon	Size	165/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to -3.0. PAS: +1.0 to 3.0
Camber	0±40' N/A	
Castor	+1°30'±40'. PAS: +3°±40' N/A	
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 1.1i 1996 to 1997

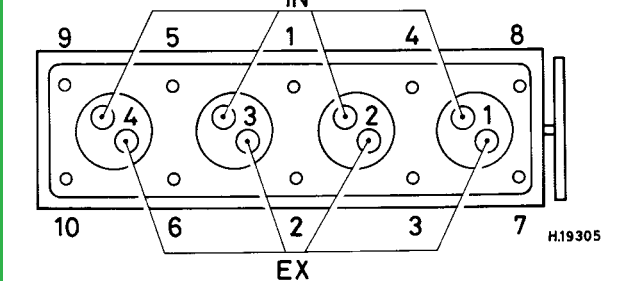
Cylinder head - stage 1	Nm	Bolts ≤175.5mm below heads
- stage 2	Nm	20
Cylinder head - stage 3	Nm	+ 240°
- stage 4	Nm	_
Big-end bearings	Nm	40
Main bearings	Nm	20 + 45°
Clutch cover	Nm	35
Flywheel [driveplate]	Nm	65 LkC
Front hubs	Nm	240
Rear hubs	Nm	200
Wheel nuts / bolts	Nm	90
Spark plugs	Nm	25

Capacities ZX 1.1i 1996 to 1997

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	56. 96 ►: 54

Notes and Illustrations

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1124 cm³