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Automotive Technical DATA BOOK

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HELP

Engine and cooling system ZX 1.9i 1991 to 1992

Type	XU9JA/K (D6E) 94kW 15.04	
Capacity (cm ³) / number of cylinders	1905 / 4	
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	[4.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.15 to 0.25
Valve clearance - exhaust	mm	0.35 to 0.45
Firing order	1-3-4-2	
No 1 cylinder position	FE	
Thermostat opening temperature	°C	89
Radiator cap pressure	bar	1.4

Fuel system ZX 1.9i 1991 to 1992

Idle speed - manual [auto]	rpm	850±50
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	≤300
CO ₂ @ idle speed [3000 rpm] - see page VI	%	≥10.0
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Bosch	
Type / ref	MP 3.1-Motronic MPI	
Main jet / needle	_	
Injection pressure	bar	2.8 to 3.2
Pump pressure	bar	3.0
Octane rating	RON	98[E 95 RON]

Ignition system ZX 1.9i 1991 to 1992

Type	DME Motronic	
Ignition coil	2x Bosch. Ducellier BAE 04	
Primary resistance	ohms	0.5
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	N/A
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	C053-D017
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0 @ 1200 to 1500
	° Crankshaft @ rpm	11 to 15 @ 3000
	° Crankshaft @ rpm	20 to 24 @ 5000
Vacuum range check	mbar	90 to 430
Maximum vacuum advance	° Crankshaft	13 to 17
Spark plugs	Bosch/Champion	
Type	F6DCOR / C7YCX	
Electrode gap	mm	0.80 to 0.90

Electrical system ZX 1.9i 1991 to 1992

Battery	V / CC / RC	12 / 300 / _
Alternator voltage / full load current / engine rpm	13.8 to 14.5 / 65 / 3600	
Starter motor current / voltage - cranking	A / V	220 / _
- locked	A / V	310 to 350 / _

Running gear ZX 1.9i 1991 to 1992

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

Tyres		
Saloon	Size	185/60x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0 to -2.0. PAS: +2.5 to 4.5
Camber	+30'±30'	
Castor	+1°30'±30'. PAS: +3°±30'	
King pin inclination	+10°45'±40'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.5 to +2.5
Camber	-1°±20'	

Torque wrench settings ZX 1.9i 1991 to 1992

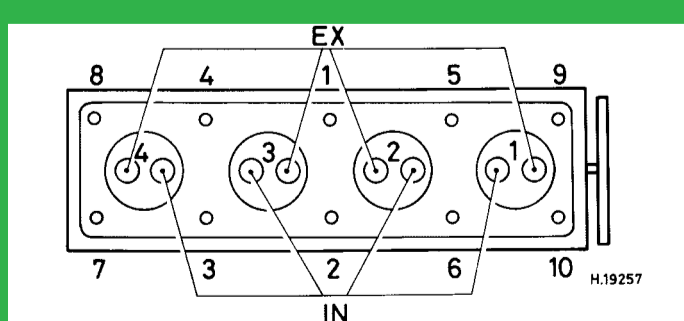
Cylinder head - stage 1	Nm	60
- stage 2	Nm	Slacken
Cylinder head - stage 3	Nm	20
- stage 4	Nm	+ 300°
Big-end bearings	Nm	40, then slacken ¹
Main bearings	Nm	53
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	270
Rear hubs	Nm	270
Wheel nuts / bolts	Nm	70. Alloy: 90
Spark plugs	Nm	25

Capacities ZX 1.9i 1991 to 1992

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	2.5
Final drive	litres	WT
Cooling system	litres	7.5 [AT: 8.0]
Fuel tank	litres	56

Notes and Illustrations

¹Then 20 + 70°



1905 cm³, 8V