

Engine & Cooling

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Automotive Technical
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Engine and cooling systemZX 1.6i1991 to 1993

Type		XU5M ¹ (B4A) 65kW 15.04
Capacity (cm ³) / number of cylinders		1580 / 4
Compression ratio / pressure	bar	8.95 / _
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 to 101
Radiator cap pressure	bar	1.4

Fuel systemZX 1.6i1991 to 1993

Idle speed - manual [auto]	rpm	850 to 900 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	%	≥10.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Magneti-Marelli
Type / ref		Monopoint G5.S2. .3/4K: G6.12
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	0.8±0.1
Octane rating	RON	98[E 95 RON]

Ignition systemZX 1.6i1991 to 1993

Type		Static
Ignition coil		2x Bosch. Ducellier BAE 04
Primary resistance	ohms	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	N/A
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° 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/Champion
Type		RFC52LS / RCN9YCC
Electrode gap	mm	0.80 to 0.90

Electrical systemZX 1.6i1991 to 1993

Battery	V / CC / RC	12 / 200 / _
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	350 /

Running gearZX 1.6i1991 to 1993

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

Tyres		
Saloon	Size	165/65x14: 175/65x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.1 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 settingsZX 1.6i1991 to 1993

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 ³
Main bearings	Nm	53
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	320
Rear hubs	Nm	200. Discs: 180
Wheel nuts / bolts	Nm	70. Alloy: 90
Spark plugs	Nm	25

CapacitiesZX 1.6i1991 to 1993

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

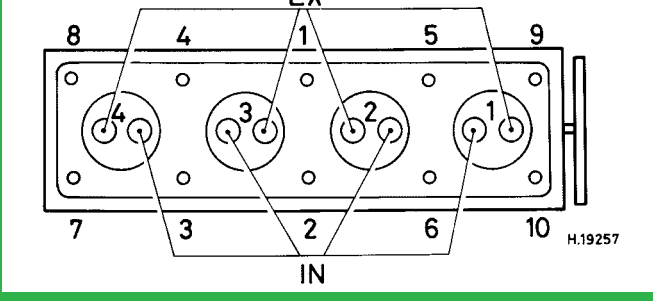
Notes and Illustrations

¹XU5M.2K or XU5M.3K. 93 ►: XU5M.4K

²165/65x14: 2.1 / 2.1

⁴PAS: +3°±30'

³Then 20 + 70°



1580 cm³