

Engine & Cooling

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Automotive Technical
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Engine and cooling system405, 1.6i CAT1993 to 1995

Type		XU5JP/L/Z (BFZ) US83 65kW
Capacity (cm³) / number of cylinders		1580 / 4
Compression ratio / pressure	bar	9.25
Oil pressure	bar	1.4 [3.5]
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	88
Radiator cap pressure	bar	1.4

Fuel system405, 1.6i CAT1993 to 1995

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
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		MMDCM 8P-13 MPI
Main jet / needle		—
Injection pressure	bar	0.70 to 0.90
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system405, 1.6i CAT1993 to 1995

Type		Static
Ignition coil		2x4 output BAE 04
Primary resistance	ohms	—
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
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		_/Champion
Type		RC9YCC
Electrode gap	mm	—

Electrical system405, 1.6i CAT1993 to 1995

Battery	V / CC / RC	(12L1 250)
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear405, 1.6i CAT1993 to 1995

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

Tyres		
Saloon	Size	175/70x14
Estate / Van	Size	175/70x14
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	2.1 / 2.3

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0±0.5 PW
Camber		0±30'
Castor		+2°10'±30'. PAS: +3°±30'
King pin inclination		+11°30'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.0±0.8 PW
Camber		-1°30'±30'

Torque wrench settings405, 1.6i CAT1993 to 1995

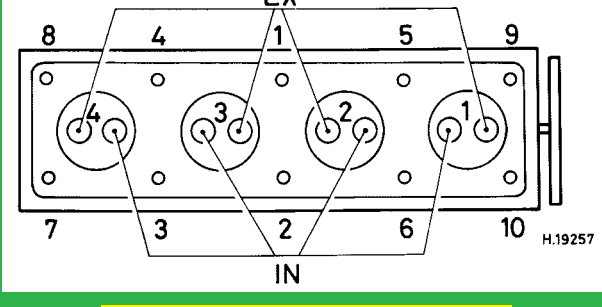
Cylinder head - stage 1	Nm	60: Bolts ≤176.5mm
- stage 2	Nm	Slacken
Cylinder head - stage 3	Nm	20
- stage 4	Nm	+ 300°
Big-end bearings	Nm	40 ¹
Main bearings	Nm	49
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	49 LkC
Front hubs	Nm	320
Rear hubs	Nm	275
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	25 to 30

Capacities405, 1.6i CAT1993 to 1995

Engine oil & filter	litres	4.75
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	2.4
Final drive	litres	WT
Cooling system	litres	6.6
Fuel tank	litres	70

Notes and Illustrations

¹Slacken, then 20 + 70°



1580 cm³