

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

309, 1.6i CAT

1989 to 1991

Type		XU5MZ (BDZ) (65kW)
Capacity (cm³) / number of cylinders		1580 / 4
Compression ratio / pressure	bar	9.26 / _
Oil pressure	bar	1.4 [3.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20
Valve clearance - exhaust	mm	0.40
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	82
Radiator cap pressure	bar	1.0

Fuel system

309, 1.6i CAT

1989 to 1991

Idle speed - manual [auto]	rpm	800±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Magneti-Marelli
Type / ref		MMBA Monopoint G5
Main jet / needle		_
Injection pressure	bar	0.70 to 0.90
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

309, 1.6i CAT

1989 to 1991

Type		AEI
Ignition coil		Bosch
Primary resistance	ohms	0.7
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	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		Eyquem/Champion
Type		FC52LS / C9YCX
Electrode gap	mm	0.80±0.05

Electrical system

309, 1.6i CAT

1989 to 1991

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear

309, 1.6i CAT

1989 to 1991

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

Tyres		
Saloon	Size	165/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 1.8
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5±0.5 PW
Camber		-30'±30'
Castor		+2°±30'
King pin inclination		+10°15'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.6±0.8 PW ¹
Camber		-50'±30'

Torque wrench settings

309, 1.6i CAT

1989 to 1991

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 ²
Main bearings	Nm	49
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	49 LkC
Front hubs	Nm	265
Rear hubs	Nm	215
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	25 to 30

Capacities

309, 1.6i CAT

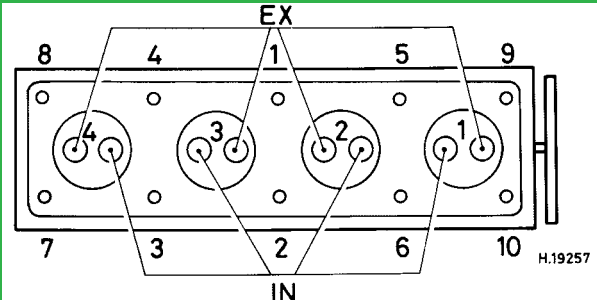
1989 to 1991

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	2.4
Final drive	litres	WT
Cooling system	litres	6.1
Fuel tank	litres	55

Notes and Illustrations

¹1990 ►: +1.8±0.8

²Slacken, then 20 + 70°



1580 cm³