

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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# Automotive Technical DATA BOOK

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HELP

## Engine and cooling system 405, 1.9i CAT 1991 to 1992

Type	XU9J1 (DFZ) (77kW)	
Capacity (cm <sup>3</sup> ) / number of cylinders	1905 / 4	
Compression ratio / pressure	bar	8.4 / _
Oil pressure	bar	2.1 [4.1]
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	88
Radiator cap pressure	bar	1.0

## Fuel system 405, 1.9i CAT 1991 to 1992

Idle speed - manual [auto]	rpm	900±50
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
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Bosch	
Type / ref	LU2-Jetronic	
Main jet / needle	_	
Injection pressure	bar	_
Pump pressure	bar	2.5
Octane rating	RON	95[U]

## Ignition system 405, 1.9i CAT 1991 to 1992

Type	Electronic	
Ignition coil	_	
Primary resistance	ohms	0.82
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	Bosch	
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	Anticlockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ 900
V = Vacuum NV = No Vacuum	_	
Total ignition advance	° Crankshaft @ rpm	C031-D022
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	9 to 15 @ 1300
	° Crankshaft @ rpm	23 to 28 @ 2000
	° Crankshaft @ rpm	33 to 37 @ 5000
Vacuum range check	mbar	186 to 733
Maximum vacuum advance	° Crankshaft	20 to 24
Spark plugs	Eyquem/Champion	
Type	RFC52LS / C9YCX	
Electrode gap	mm	0.80

## Electrical system 405, 1.9i CAT 1991 to 1992

Battery	V / CC / RC	12 / 250 / 33
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 405, 1.9i CAT 1991 to 1992

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	_
Rear (min. friction material thickness)	mm	_
<b>Tyres</b>		
Saloon	Size	185/65x14
Estate / Van	Size	185/65x14
Pressure - front / rear - Saloon	bar	2.0 / 2.0 <sup>1</sup>
- Estate / Van	bar	2.1 / 2.2 <sup>2</sup>
<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±0.5 PW
Camber	0±30'	
Castor	+3°10'±30'. Est: +2°25'±30'	
King pin inclination	+11°25'±30'	
<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	+2.5±0.8 PW <sup>3</sup>
Camber	-1°20'±30'	

## Torque wrench settings 405, 1.9i CAT 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 <sup>4</sup>
Main bearings	Nm	49
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	49 LkC
Front hubs	Nm	265
Rear hubs	Nm	275
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	27

## Capacities 405, 1.9i CAT 1991 to 1992

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	6.6
Fuel tank	litres	70

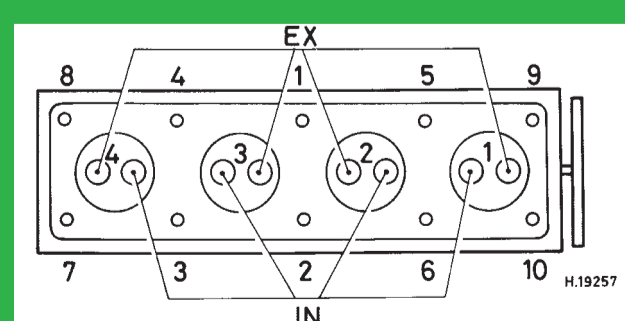
## Notes and Illustrations

<sup>1</sup>AT: 2.0 / 2.1

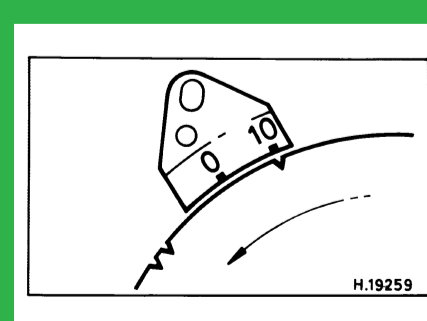
<sup>2</sup>AT: 2.1 / 2.3

<sup>3</sup>Estate: +1.4±0.8

<sup>4</sup>Slacken, then 20 + 70°



1905 cm<sup>3</sup>, 8V



1905 cm<sup>3</sup>, 8V