

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

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

## Engine and cooling system 405, 1.6i CAT 1989 to 1991

Type		XU5M2Z (BDY) 66kW
Capacity (cm <sup>3</sup> ) / number of cylinders		1580 / 4
Compression ratio / pressure	bar	8.95 / _
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	88
Radiator cap pressure	bar	1.0

## Fuel system 405, 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	%	N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤300
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		_
Type / ref		MMFD Monopoint G5
Main jet / needle		_
Injection pressure	bar	0.70 to 0.90
Pump pressure	bar	_
Octane rating	RON	92[U]

## Ignition system 405, 1.6i CAT 1989 to 1991

Type		Static
Ignition coil		2x Bosch. Valeo
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	10 to 12 BTDC @ 750
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 / C9YCX
Electrode gap	mm	0.80±0.05

## Electrical system 405, 1.6i CAT 1989 to 1991

Battery	V / CC / RC	12 / 200 / 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, 1.6i CAT 1989 to 1991

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	_
Rear (min. friction material thickness)	mm	_

<b>Tyres</b>		
Saloon	Size	175/70x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	_

<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±0.5 PW
Camber		0±30'
Castor		+2°25'±30'. PAS: +3°10'±30'
King pin inclination		+11°25'±30'

<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	-2.5±0.8 PW
Camber		-1°20'±30'

## Torque wrench settings 405, 1.6i CAT 1989 to 1991

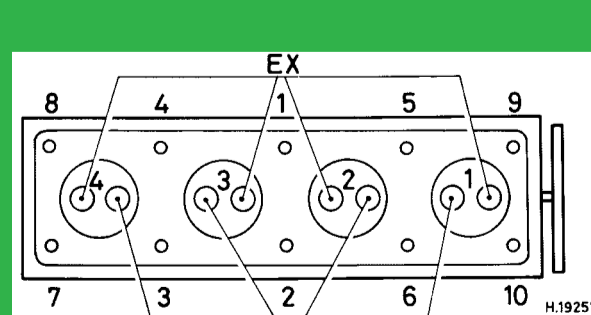
Cylinder head - stage 1	Nm	60
- stage 2	Nm	Slacken
Cylinder head - stage 3	Nm	20
- stage 4	Nm	+ 300°
Big-end bearings	Nm	40 <sup>1</sup>
Main bearings	Nm	49
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	49 LkC
Front hubs	Nm	265
Rear hubs	Nm	275
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	25 to 30

## Capacities 405, 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	6.6
Fuel tank	litres	70

## Notes and Illustrations

<sup>1</sup>Slacken, then 20 + 70°



1580 cm<sup>3</sup>