

Engine & Cooling

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Automotive Technical
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Engine and cooling system

405, 2.0i 16V CAT

1992 to 1995

Type		XU10J4/Z (RFY) 112kW DOHC 16V
Capacity (cm³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	10.4 / _
Oil pressure	bar	[2.2 to 5.2]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
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 system

405, 2.0i 16V CAT

1992 to 1995

Idle speed - manual [auto]	rpm	880±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤300
CO2 @ idle speed [3000 rpm] - see page VI	%	≥10.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		MP3.2-Motronic MPI
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	2.8 to 3.2
Octane rating	RON	95[U]

Ignition system

405, 2.0i 16V CAT

1992 to 1995

Type		Direct electronic
Ignition coil		4xBAE01 (1 per plug)
Primary resistance	ohms	0.7
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	_
	° 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		FC62LS3 / C7YCX
Electrode gap	mm	1.20

Electrical system

405, 2.0i 16V CAT

1992 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 gear

405, 2.0i 16V CAT

1992 to 1995

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

Tyres		
Saloon	Size	195/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	_

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

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.75±0.8 PW
Camber		-1°30'±30'

Torque wrench settings

405, 2.0i 16V CAT

1992 to 1995

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 ¹
Main bearings	Nm	70
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	320
Rear hubs	Nm	275
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	27

Capacities

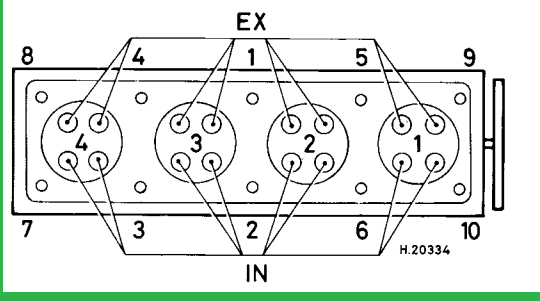
405, 2.0i 16V CAT

1992 to 1995

Engine oil & filter	litres	4.25
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	2.4
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	70

Notes and Illustrations

¹Slacken, then 20 + 70°



1998 cm³, 16V