

Engine & Cooling

Fuel

Ignition

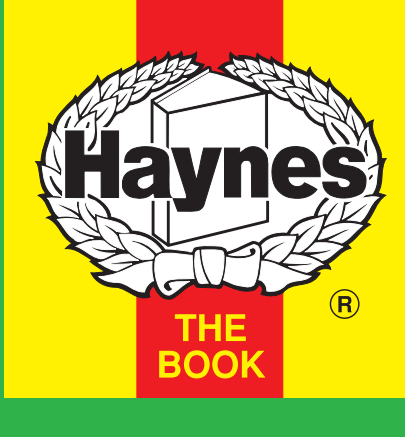
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



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 Mi 16 CAT

1990 to 1992

Type		XU9J4/Z (DFW) 108kW DOHC 16V
Capacity (cm³) / number of cylinders		1905 / 4
Compression ratio / pressure	bar	9.7 / _
Oil pressure	bar	2.0 [4.9]
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	88
Radiator cap pressure	bar	1.0

Fuel system

405 Mi 16 CAT

1990 to 1992

Idle speed - manual [auto]	rpm	880±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0 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		Bosch
Type / ref		Motronic M1.3
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	2.8 to 3.2
Octane rating	RON	91[U]

Ignition system

405 Mi 16 CAT

1990 to 1992

Type		DME Motronic
Ignition coil		Bosch
Primary resistance	ohms	0.7
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
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 Mi 16 CAT

1990 to 1992

Battery	V / CC / RC	12 / 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 Mi 16 CAT

1990 to 1992

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

Tyres		
Saloon	Size	195/60x14: 195/55x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.1 ¹
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±0.5 PW ²
Camber		0±30'
Castor		+3°25'±30'. 4x4: +2°25'±30'
King pin inclination		+11°30'±30'. 4x4: +11°25'±30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3.0±0.8 ³
Camber		-1°20'±30'

Torque wrench settings

405 Mi 16 CAT

1990 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 ⁴
Main bearings	Nm	53
Clutch cover	Nm	22
Flywheel [driveplate]	Nm	50 LkC
Front hubs	Nm	265
Rear hubs	Nm	275
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	27

Capacities

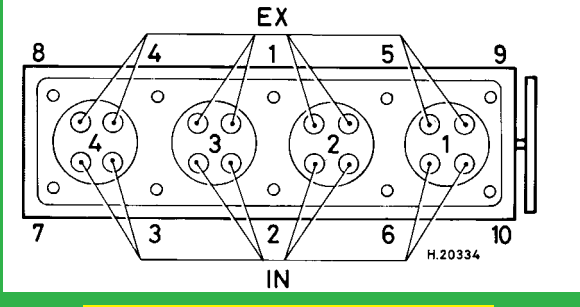
405 Mi 16 CAT

1990 to 1992

Engine oil & filter	litres	5.3
Gearbox - 4-speed [5-speed]	litres	2.0 ⁵
Automatic transmission - refill	litres	_
Final drive	litres	4x4: 1.6
Cooling system	litres	7.2
Fuel tank	litres	70

Notes and Illustrations

- ¹**195/55x15: 2.1 / 2.1**
- ²**4x4: +1.8±0.5**
- ³**4x4: +1.7±0.9**
- ⁴**Slacken, then 20 + 70°**
- ⁵**Transfer box: 1.8**



1905 cm³, 16V