

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

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## Engine and cooling system Croma 2.0ie 16V CAT 1993 to 1995

Type	154 E1.000 101kW 91/441/EEC	
Capacity (cm <sup>3</sup> ) / number of cylinders	1995 / 4	
Compression ratio / pressure	bar	10.5±0.15 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.45±0.03
Valve clearance - exhaust	mm	0.50±0.03
Firing order	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	81 to 85
Radiator cap pressure	bar	0.98

## Fuel system Croma 2.0ie 16V CAT 1993 to 1995

Idle speed - manual [auto]	rpm	900±30
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.7±0.2. Ex: ≤0.35
HC @ idle speed [3000 rpm] - see page VI	ppm	≤500. Ex: ≤100
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	M1.7-Motronic	
Main jet / needle	_	
Injection pressure	bar	3.0±0.2
Pump pressure	bar	≤4.5
Octane rating	RON	95[U]

## Ignition system Croma 2.0ie 16V CAT 1993 to 1995

Type	Motronic	
Ignition coil	Marelli BAE 504D	
Primary resistance	ohms	0.405 to 0.495
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	Marelli	
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	_	
Ignition timing - basic [static	° Crankshaft @ rpm	10±2 BTDC @ 900±30
V = Vacuum    NV = No Vacuum	_	
Total ignition advance	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	Computer control
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	_
Spark plugs	Champion	
Type	RN7YCC	
Electrode gap	mm	0.85 to 0.95

## Electrical system Croma 2.0ie 16V CAT 1993 to 1995

Battery	V / CC / RC	12 / 255 / 45, 320 / 60
Alternator voltage / full load current / engine rpm	14.0 to 14.6 / 65 / 3500	
Starter motor current / voltage - cranking	A / V	360 to 380 / 8.15 to 8.5
- locked	A / V	680 to 730 / 4.8 to 5.2

## Running gear Croma 2.0ie 16V CAT 1993 to 1995

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5
<b>Tyres</b>		
Saloon	Size	_
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	_

## Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to +1.0
Camber		-20'±20'
Castor		+2°50'±20'
King pin inclination		_

## Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+2.0 to 5.0
Camber		-20'±20'

## Torque wrench settings Croma 2.0ie 16V CAT 1993 to 1995

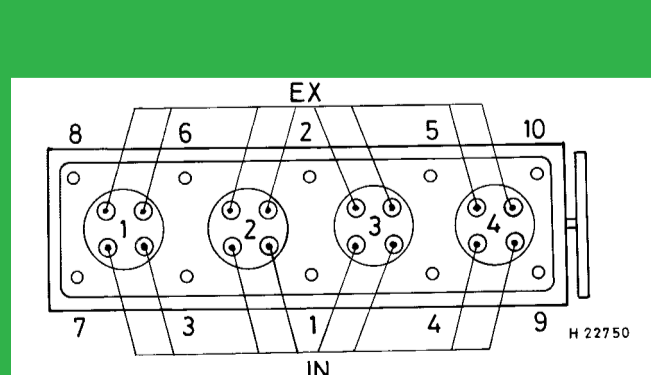
Cylinder head - stage 1	Nm	20
- stage 2	Nm	70
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	25 + 50°
Main bearings	Nm	Centre: 20 + 130° <sup>1</sup>
Clutch cover	Nm	38
Flywheel [driveplate]	Nm	142
Front hubs	Nm	360 locked
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	98
Spark plugs	Nm	25 to 30

## Capacities Croma 2.0ie 16V CAT 1993 to 1995

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	1.5 to 1.6
Automatic transmission - refill	litres	3.3
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	70

## Notes and Illustrations

<sup>1</sup>Others: 20 + 90°



1995 cm<sup>3</sup>, DOHC 16V