

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 Croma 2.0ie 1990 to 1992

Type	154 C3.000 86kW DOHC	
Capacity (cm <sup>3</sup> ) / number of cylinders	1995 / 4	
Compression ratio / pressure	bar	9.5±0.15 / _
Oil pressure	bar	[3.7 to 5.7]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.39±0.04
Valve clearance - exhaust	mm	0.46±0.04
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 1990 to 1992

Idle speed - manual [auto]	rpm	850±50 [800±50]
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5 [1.0±0.25]
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
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	Weber-Marelli	
Type / ref	IAW (integrated) MPI	
Main jet / needle	_	
Injection pressure	bar	3.0±0.2
Pump pressure	bar	≤4.5
Octane rating	RON	95[E 95 RON]

## Ignition system Croma 2.0ie 1990 to 1992

Type	IAW	
Ignition coil	Marelli BAE 504DK	
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 V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	10±2 BTDC @ 500 to 1125
Total ignition advance	° Crankshaft @ rpm	38±2 BTDC @ 3000 to 4000
	° 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	Champion	
Type	RN7YCC	
Electrode gap	mm	0.85 to 0.95

## Electrical system Croma 2.0ie 1990 to 1992

Battery	V / CC / RC	12 / 320 / 60
Alternator voltage / full load current / engine rpm	14.3 to 14.6 / 65, 90 / 3500	
Starter motor current / voltage - cranking	A / V	280 to 360 / 8.15
- locked	A / V	680 to 700 / 4.9

## Running gear Croma 2.0ie 1990 to 1992

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

<b>Tyres</b>		
Saloon	Size	175/70x14: 195/60x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	175: 2.0 / 2.0 <sup>1</sup>
- 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 1990 to 1992

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	25 + 50°
Main bearings	Nm	20 <sup>2</sup>
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	142
Front hubs	Nm	360 locked
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	37

## Capacities Croma 2.0ie 1990 to 1992

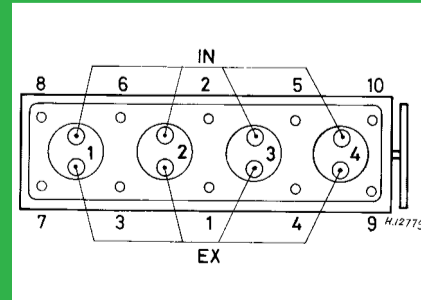
Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	1.5 to 1.6
Automatic transmission - refill	litres	3.3
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	70

## Notes and Illustrations

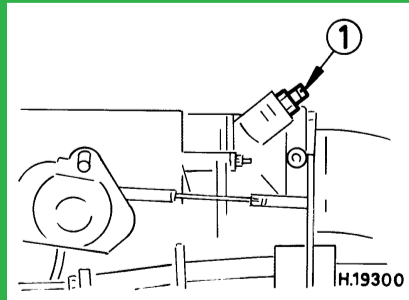
<sup>1</sup>195: 2.2 / 2.2

<sup>2</sup>Centre bearing: + 120°. Others: + 80°

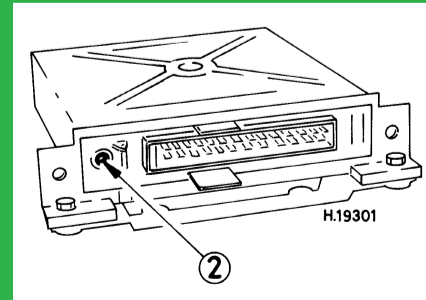
1: Idle speed    2: CO / Mixture



1995 cm<sup>3</sup>, 8V



IAW



IAW