

Engine & Cooling

Fuel

Ignition

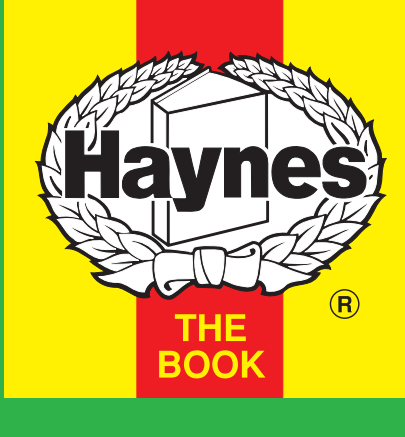
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

Croma 2.0ie Turbo CAT

1991 to 1994

Type		154 C4.046 110kW DOHC US83
Capacity (cm³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	7.5±0.15 / _
Oil pressure	bar	[2.8 to 5.5]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.35±0.03
Valve clearance - exhaust	mm	0.40±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 Turbo CAT

1991 to 1994

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.7±0.3. Ex: ≤0.35
HC @ idle speed [3000 rpm] - see page VI	ppm	≤500. Ex: ≤70
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LU2-Jetronic plus Turbo
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 Turbo CAT

1991 to 1994

Type		Microplex
Ignition coil		Marelli DT 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	° Crankshaft @ rpm	15±2 BTDC @ 850±50
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	≤40±2 BTDC
	° 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		Bosch
Type		WR6DC
Electrode gap	mm	0.80 to 1.00

Electrical system

Croma 2.0ie Turbo CAT

1991 to 1994

Battery	V / CC / RC	12 / 320 / 60
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 65 / 3500
Starter motor current / voltage - cranking	A / V	360 to 380 / 8.15
- locked	A / V	680 to 700 / 4.9

Running gear

Croma 2.0ie Turbo CAT

1991 to 1994

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	195/60x14
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 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 Turbo CAT

1991 to 1994

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 ¹
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	142
Front hubs	Nm	360 locked
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	98
Spark plugs	Nm	37

Capacities

Croma 2.0ie Turbo CAT

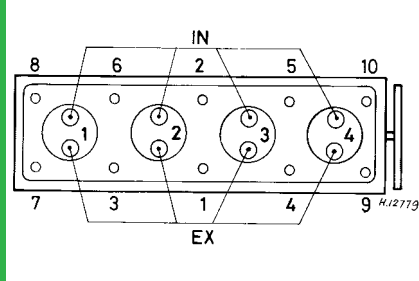
1991 to 1994

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	9.6
Fuel tank	litres	70

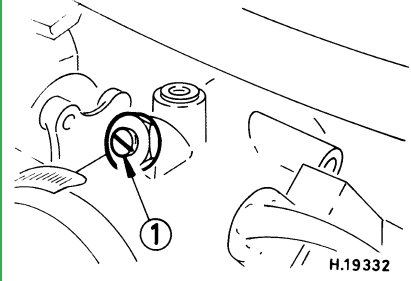
Notes and Illustrations

¹Centre bearing: + 130°. Others: + 90°

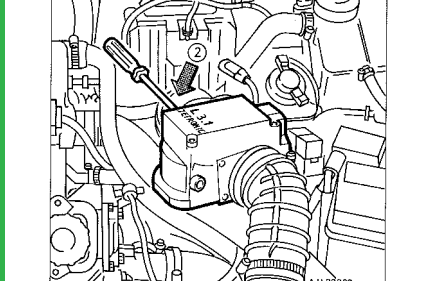
1: Idle speed 2: CO / Mixture



1995 cm³, DOHC 8V



LU2-Jetronic



LU2-Jetronic