

Engine & Cooling

Fuel

Ignition

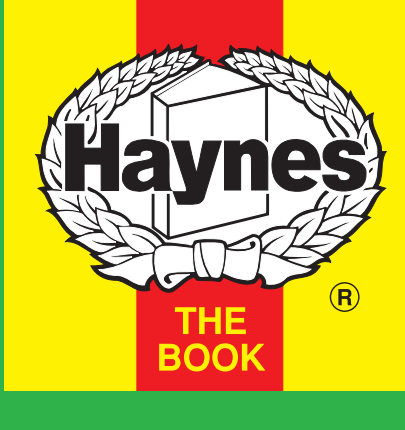
Electrical

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Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling systemCroma 2000 ie1986 to 1989

Type		834 B.000
Capacity (cm³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	9.75 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.40±0.04¹
Valve clearance - exhaust	mm	0.40±0.04²
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 systemCroma 2000 ie1986 to 1989

Idle speed - manual [auto]	rpm	800±50 [680 to 740]
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 2.0 [1.0 to 1.5]
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber-Marelli
Type / ref		IAW (integrated)
Main jet / needle		_
Injection pressure	bar	3.0±0.2
Pump pressure	bar	≤4.5
Octane rating	RON	98[R]

Ignition systemCroma 2000 ie1986 to 1989

Type		AEI
Ignition coil		Marelli BAE 209 / BK
Primary resistance	ohms	0.31 to 0.38
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 @ 500 to 1125
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	Fully electronic
	° Crankshaft @ rpm	38±2 @ 3000 to 4000
	° 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/Champion
Type		WR6DC / RN7YCC
Electrode gap	mm	0.85 to 0.95

Electrical systemCroma 2000 ie1986 to 1989

Battery	V / CC / RC	12 / 210 / 65 [300 / 60 AT]
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / _ / 3500
Starter motor current / voltage - cranking	A / V	270 / 9.2 [360 / 8.5 AT]
- locked	A / V	_

Running gearCroma 2000 ie1986 to 1989

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

Tyres		
Saloon	Size	175/70x14: 195/60x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	175: 2.0 / 2.0³
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to +1.0
Camber		-20'±20'
Castor		+2°30' to 3°10'
King pin inclination		_

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

Torque wrench settingsCroma 2000 ie1986 to 1989

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	74
Main bearings	Nm	20⁴
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	142
Front hubs	Nm	360
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	98
Spark plugs	Nm	25 to 30

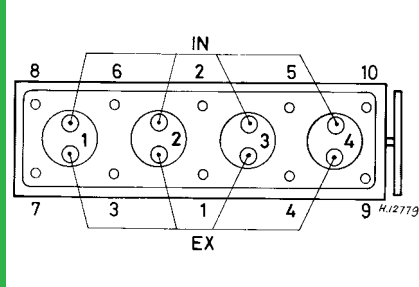
CapacitiesCroma 2000 ie1986 to 1989

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	1.5 to 1.6
Automatic transmission - refill	litres	3.7
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	70

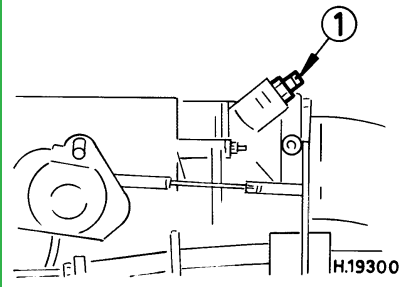
Notes and Illustrations

- ¹Engine 791 028 ►: 0.39±0.04
- ²►557185: 0.48±0.03. Engine 791 028 ►: 0.46±0.03
- ³195: 2.2 / 2.2
- ⁴Centre bearing: + 120°. Others: + 80°

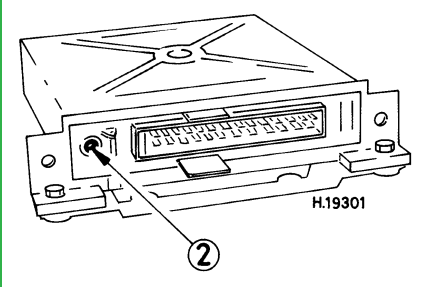
1: Idle speed 2: CO / Mixture



1995 cm³, 8V



IAW



IAW