

FIAT

Croma 2.0 CHT

1990 to 1992

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

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Type		154 C5.000 72kW DOHC
Capacity (cm ³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	9.0±0.15 / _
Oil pressure	bar	[3.7 to 5.7]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.35±0.04
Valve clearance - exhaust	mm	0.40±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

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Idle speed - manual [auto]	rpm	750±50 [800±50]
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.25 [1.0 to 2.0]
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
Type / ref		34 DAT 55/150/550 [38/750]
Main jet / needle		95, 105
Injection pressure	bar	_
Pump pressure	bar	0.15 to 0.20
Octane rating	RON	95[E 95 RON]

Ignition system

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Type		Digiplex 2
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 @ 500 to 900
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	32±2 BTDC @ 5000
	° 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/Champion
Type		WR6DC / RN7YCC
Electrode gap	mm	0.85 to 0.95

Electrical system

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Battery	V / CC / RC	12 / 255 / 55 (45Ah)
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

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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 / 2.0 ¹
- 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

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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 ²
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

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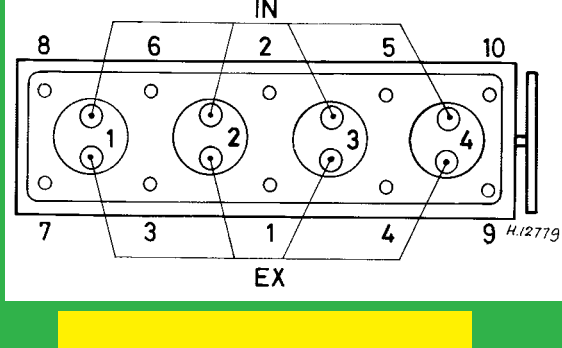
Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	1.5 to 1.6
Automatic transmission - refill	litres	3.0
Final drive	litres	WT
Cooling system	litres	9.0
Fuel tank	litres	70

Notes and Illustrations

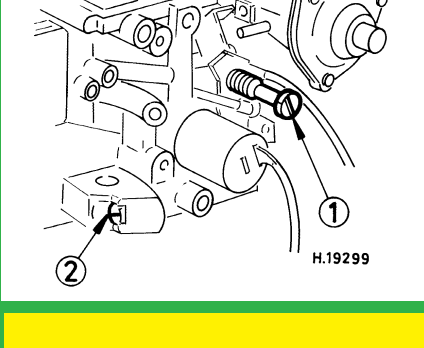
¹195: 2.2 / 2.2

²Centre bearing: + 120°. Others: + 80°

1: Idle speed 2: CO / Mixture



1995 cm³, 8V



Weber DAT