

Engine & Cooling

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemCinquecento 9001992 to 1993

Type		170 A1.000 OHV 30kW
Capacity (cm³) / number of cylinders		903 / 4
Compression ratio / pressure	bar	9.0±0.15 / _
Oil pressure	bar	[2.9 to 3.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.98

Fuel systemCinquecento 9001992 to 1993

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber
Type / ref		32 TLF 32/250
Main jet / needle		112
Injection pressure	bar	_
Pump pressure	bar	0.14 to 0.24
Octane rating	RON	95[E 95 RON]

Ignition systemCinquecento 9001992 to 1993

Type		Digiplex 2-Static
Ignition coil		2x BAE 800 DK
Primary resistance	ohms	0.495 to 0.605
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8±2 BTDC @ 850±50
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	42±2 @ 4200 to 5000
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	_
Maximum vacuum advance	° Crankshaft	_
Spark plugs		Bosch/Champion
Type		WR7DC / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical systemCinquecento 9001992 to 1993

Battery	V / CC / RC	12 / 150 / 32Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 45 / 3500
Starter motor current / voltage - cranking	A / V	180 / 9.1
- locked	A / V	324 / 7.1

Running gearCinquecento 9001992 to 1993

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

Tyres		
Saloon	Size	145/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		+30'±30' N/A
Castor		+1°50'±30' N/A
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±3.0 N/A
Camber		+20'±30' N/A

Torque wrench settingsCinquecento 9001992 to 1993

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	41
Main bearings	Nm	69
Clutch cover	Nm	10
Flywheel [driveplate]	Nm	44
Front hubs	Nm	WSM
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	32

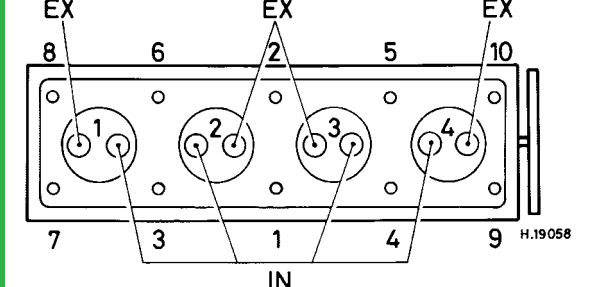
CapacitiesCinquecento 9001992 to 1993

Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	4.8
Fuel tank	litres	35

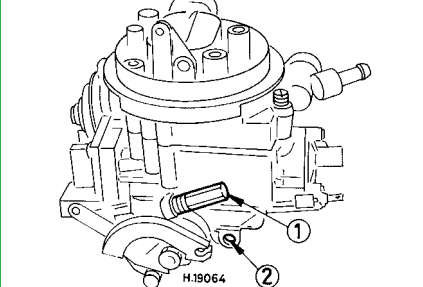
Notes and Illustrations



1: Idle speed 2: CO / Mixture



903 cm³OHV



Weber 32 TLF