

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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# Automotive Technical DATA BOOK

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HELP

### Engine and cooling system Cinquecento 704 CAT 1993 to 1997

Type		170 A.046 OHV 22kW US83
Capacity (cm <sup>3</sup> ) / number of cylinders		704 / 2
Compression ratio / pressure	bar	8.8 / _
Oil pressure	bar	[3.9 to 4.4]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.15±0.05
Valve clearance - exhaust	mm	0.15±0.05
Firing order		1-2
No 1 cylinder position		-
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.98

### Fuel system Cinquecento 704 CAT 1993 to 1997

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
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		Aisan
Type / ref		1V Electronic
Main jet / needle		111
Injection pressure	bar	-
Pump pressure	bar	0.19 to 0.28
Octane rating	RON	95[U]

### Ignition system Cinquecento 704 CAT 1993 to 1997

Type		Nanoplex Static
Ignition coil		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	10±2 BTDC @ 850±50
V = Vacuum NV = No Vacuum		-
Total ignition advance	° Crankshaft @ rpm	46±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 system Cinquecento 704 CAT 1993 to 1997

Battery	V / CC / RC	12 / 150 / 32Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 55 / 3500
Starter motor current / voltage - cranking	A / V	200 / 9.8 to 10.0
- locked	A / V	440 / 7.6

### Running gear Cinquecento 704 CAT 1993 to 1997

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5
<b>Tyres</b>		
Saloon	Size	135/70x13; 145/70x13
Estate / Van	Size	-
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	-
<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		+30'±30' N/A
Castor		+1°50'±30' N/A
King pin inclination		-
<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	0±3.0 N/A
Camber		+20'±30' N/A

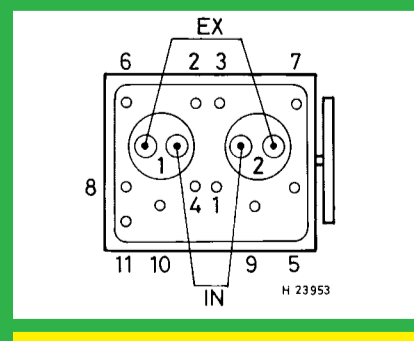
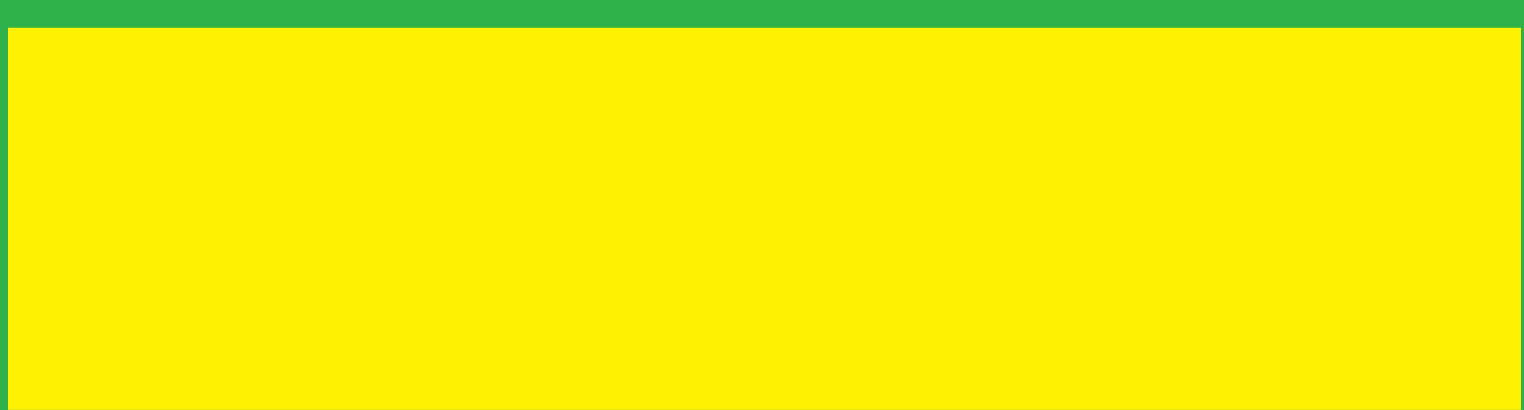
### Torque wrench settings Cinquecento 704 CAT 1993 to 1997

Cylinder head - stage 1	Nm	M10: 20 + 90° + 90°
- stage 2	Nm	M8: 20 + 70°
Cylinder head - stage 3	Nm	M8 (side): 20 + 50°
- stage 4	Nm	-
Big-end bearings	Nm	34
Main bearings	Nm	27
Clutch cover	Nm	10
Flywheel [driveplate]	Nm	44
Front hubs	Nm	WSM
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	28

### Capacities Cinquecento 704 CAT 1993 to 1997

Engine oil & filter	litres	2.25
Gearbox - 4-speed [5-speed]	litres	1.4
Automatic transmission - refill	litres	-
Final drive	litres	WT
Cooling system	litres	4.0
Fuel tank	litres	35

### Notes and Illustrations



704 cm<sup>3</sup>