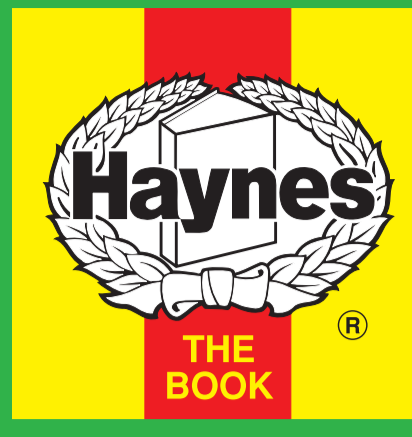


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Fiorino 1500 CAT 1991 to 1995

Type		149 C1.000 SOHC 55kW US83
Capacity (cm ³) / number of cylinders		1499 / 4
Compression ratio / pressure	bar	8.53±0.15 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.40±0.05
Valve clearance - exhaust	mm	0.50±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	83 to 87
Radiator cap pressure	bar	0.98

Fuel system Fiorino 1500 CAT 1991 to 1995

Idle speed - manual [auto]	rpm	850±50 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.4 to 1.0 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤500
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		Mono-Jetronic SPI
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	1.0±0.2
Octane rating	RON	95[U]

Ignition system Fiorino 1500 CAT 1991 to 1995

Type		Digiplex
Ignition coil		Marelli BAE 504 D
Primary resistance	ohms	0.405 to 0.495
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	[0.30 to 0.40]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±2 BTDC @ 800 to 850
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	36±2 BTDC @ 4000 to 6000
	° 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		Champion
Type		RN7YCC
Electrode gap	mm	0.70 to 0.80

Electrical system Fiorino 1500 CAT 1991 to 1995

Battery	V / CC / RC	12 / 185 / 40
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 63, 65 / 3000
Starter motor current / voltage - cranking	A / V	170 to 220 / 9.4 to 9.8
- locked	A / V	330 to 480 / 6.7 to 7.1

Running gear Fiorino 1500 CAT 1991 to 1995

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

Tyres		
Saloon	Size	_
Estate / Van	Size	165/70x13
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	1.9 / 1.9

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	-3.0±1.0
Camber		+35'±30'
Castor		+20'±30'. PU: +25'±30' ¹
King pin inclination		_

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+5.0±2.0
Camber		Van: -55'±30' ²

Torque wrench settings Fiorino 1500 CAT 1991 to 1995

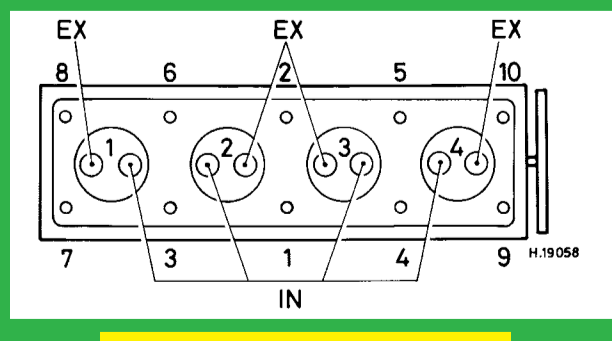
Cylinder head - stage 1	Nm	20 ³
- stage 2	Nm	40 ³
Cylinder head - stage 3	Nm	+ 90 ³
- stage 4	Nm	+ 90 ³
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	83
Front hubs	Nm	216
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities Fiorino 1500 CAT 1991 to 1995

Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	3.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	54

Notes and Illustrations

¹Combi: +35'±30'
²Combi: -1°10'±30'. PU: -30'±30'
³Additional bolts: 30



1499 cm³