

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemFiorino 1.41995 to 1997

Type	149 C5.000 49kW SOHC	
Capacity (cm ³) / number of cylinders	1372 / 4	
Compression ratio / pressure	bar	9.2 / _
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	80 to 84
Radiator cap pressure	bar	0.98

Fuel systemFiorino 1.41995 to 1997

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.10
HC @ idle speed [3000 rpm] - see page VI	ppm	≤30
CO2 @ idle speed [3000 rpm] - see page VI	%	≥13.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	_ Bosch	
Type / ref	SPI	
Main jet / needle	_	
Injection pressure	bar	3.0
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemFiorino 1.41995 to 1997

Type	Digiplex 2-Static	
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	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	_	
Ignition timing - basic [static	° Crankshaft @ rpm	4±2 BTDC @ 850±50 N/A
V = Vacuum NV = No Vacuum	_	
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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	RN9YCC	
Electrode gap	mm	0.85 to 0.95

Electrical systemFiorino 1.41995 to 1997

Battery	V / CC / RC	12 / 185 / 45Ah
Alternator voltage / full load current / engine rpm	14.3 to 14.6 / 65 / _	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearFiorino 1.41995 to 1997

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	2.2 / 1.9

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-3.0±1.0
Camber	-20'±20'	
Castor	20'±20'	
King pin inclination	_	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0
Camber	-40'±30'	

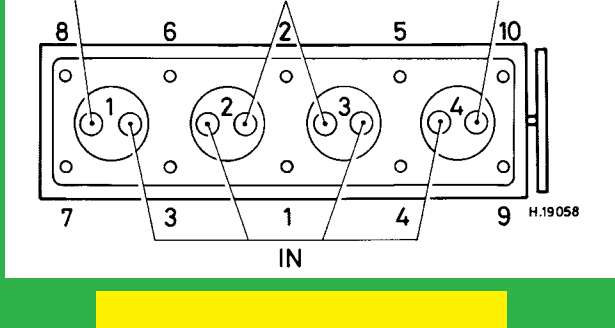
Torque wrench settingsFiorino 1.41995 to 1997

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
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

CapacitiesFiorino 1.41995 to 1997

Engine oil & filter	litres	3.7
Gearbox - 4-speed [5-speed]	litres	3.1
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	64

Notes and Illustrations



1372 cm³