



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 Fiorino 1300 1988 to 1996

Type		146 A5.000 SOHC 49kW
Capacity (cm ³) / number of cylinders		1301 / 4
Compression ratio / pressure	bar	9.35±0.15 / ..
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.30±0.05
Valve clearance - exhaust	mm	0.40±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 system Fiorino 1300 1988 to 1996

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	..
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
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		30-32 DMTE Z1/150. 91 ▶; 151
Main jet / needle		92, 105
Injection pressure	bar	..
Pump pressure	bar	0.15 to 0.20
Octane rating	RON	98[E 95 RON]

Ignition system Fiorino 1300 1988 to 1996

Type		Electronic
Ignition coil		Marelli BAE 506 A
Primary resistance	ohms	0.756 to 0.924
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	10 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	..
	° Crankshaft @ rpm	..
	° Crankshaft @ rpm	..
Centrifugal check.	° Crankshaft @ rpm	0 @ 1400 to 1800
	° Crankshaft @ rpm	7 to 11 @ 3000
	° Crankshaft @ rpm	20 to 24 @ 5200
Vacuum range check	mbar	132 to 400
Maximum vacuum advance	° Crankshaft	12 to 16
Spark plugs		Bosch/Champion
Type		WR7DC / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system Fiorino 1300 1988 to 1996

Battery	V / CC / RC	12 / 185 / 45Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 45 / 3500
Starter motor current / voltage - cranking	A / V	170 / 9.4
- locked	A / V	330 to 350 / 6.7 to 7.1

Running gear Fiorino 1300 1988 to 1996

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	..
Pressure - front / rear - Estate / Van	bar	1.9 / 1.9
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-3.0±1.0
Camber		+1°50'±30'. 91 ▶; +35'±30'
Castor		+30'±30'. Pick-up: +25'±30' ¹
King pin inclination		..
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+5.0±2.0
Camber		Van: -40'±30' ²

Torque wrench settings Fiorino 1300 1988 to 1996

Cylinder head - stage 1	Nm	65 ¹
- stage 2	Nm	+ 90 ^{1,2}
Cylinder head - stage 3	Nm	+ 90 ^{1,2}
- stage 4	Nm	..
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

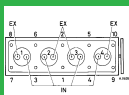
Capacities Fiorino 1300 1988 to 1996

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	3.0. 91 ▶; 3.4
Automatic transmission - refill	litres	..
Final drive	litres	WT
Cooling system	litres	5.0. 91 ▶; 5.5
Fuel tank	litres	54

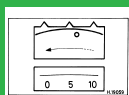
Notes and Illustrations

Combi: +25'±30'
Combi: -55'±30'. PU: -45'±30'. 91 ▶; Van: -1'±30'. Combi: -1°10'±30'. PU: -40'±30'
NUTS: 65 + 40' + 40'

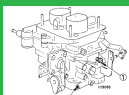
1: Idle speed 2: CO / Mixture



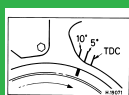
1301 cm³



1301 cm³



Weber DMTE



1301 cm³, alternative