

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system			127 & Fiorino, 1050	1981 to 1988
Type			127 A.000	
Capacity (cm³) / number of cylinders			1049 / 4	
Compression ratio / pressure			bar	9.3 /
Oil pressure			bar	[2.9 to 3.9]
Oil temperature			°C	100
Valve clearance - inlet			mm	0.30
Valve clearance - exhaust			mm	0.40
Firing order			1-3-4-2	
No 1 cylinder position			TBE	
Thermostat opening temperature			°C	80 to 84
Radiator cap pressure			bar	0.78
Fuel system			127 & Fiorino, 1050	1981 to 1988
Idle speed - manual [auto]			rpm	850±50
Fast idle speed - manual [auto]			rpm	—
CO @ idle speed [3000 rpm] - see page VI			%	≤3.0
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			Solex/Weber	
Type / ref			S: C 32 TDI 2/4. W: 32 ICEV	
Main jet / needle			115	
Injection pressure			bar	—
Pump pressure			bar	0.18
Octane rating			RON	98[R]
Ignition system			127 & Fiorino, 1050	1981 to 1988
Type			Contact breaker - CIS	
Ignition coil			Various	
Primary resistance			ohms	2.6 to 3.3
Ballast resistor			ohms	—
Voltage - Tmnl 15(+) to earth			V	—
Distributor			Marelli	
Points gap (air gap)			mm	0.40±0.03
Dwell angle			° (%)	55±3
Condenser capacity			µF	0.20 to 0.25
Rotation			—	
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 @ 800 to 1200
			° Crankshaft @ rpm	18 to 22 @ 3000
			° Crankshaft @ rpm	23 to 27 @ 4500
Vacuum range check			mbar	—
Maximum vacuum advance			° Crankshaft	—
Spark plugs			Marelli/Champion	
Type			CW7LPR / RN9YC	
Electrode gap			mm	0.70 to 0.80
Electrical system			127 & Fiorino, 1050	1981 to 1988
Battery			V / CC / RC	12 / 175 / 60
Alternator voltage / full load current / engine rpm			14.0 to 14.5 / _ / 3000	
Starter motor current / voltage - cranking			A / V	170 / 9.4
- locked			A / V	—
Running gear			127 & Fiorino, 1050	1981 to 1988
Brakes -				
Front (min. friction material thickness)			mm	1.5
Rear (min. friction material thickness)			mm	1.5
Tyres				
Saloon			Size	135x13: 145x13
Estate / Van			Size	135x13: 145x13
Pressure - front / rear - Saloon			bar	1.9 / 1.9
- Estate / Van			bar	1.9 / 1.9
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (–)			mm [°]	-3.5 to +0.5 ¹
Camber			+1°25'±30' ²	
Castor			+1°40'±30' ³	
King pin inclination			—	
Rear suspension / wheel alignment				
Toe-in (+) / Toe-out (–)			mm [°]	0 to +4.0 ⁴
Camber			-1°±30' ⁵	
Torque wrench settings			127 & Fiorino, 1050	1981 to 1988
Cylinder head - stage 1			Nm	83
- stage 2			Nm	—
Cylinder head - stage 3			Nm	—
- stage 4			Nm	—
Big-end bearings			Nm	51
Main bearings			Nm	80
Clutch cover			Nm	15
Flywheel [driveplate]			Nm	83
Front hubs			Nm	M18: 137. M20: 157
Rear hubs			Nm	M18: 137. M20: 157
Wheel nuts / bolts			Nm	—
Spark plugs			Nm	25 to 30
Capacities			127 & Fiorino, 1050	1981 to 1988
Engine oil & filter			litres	3.4 [83 MY: 3.6]
Gearbox - 4-speed [5-speed]			litres	2.5 [3.4]
Automatic transmission - refill			litres	—
Final drive			litres	WT
Cooling system			litres	5.5 [83 MY: 5.8]
Fuel tank			litres	31. 1983 MY: 42

Notes and Illustrations

¹Fiorino: -1.0 to +1.0. 83MY: -5.5 to +1.5

²Fiorino: +1° to 2°. 83 MY: +1°40' to 2°40'

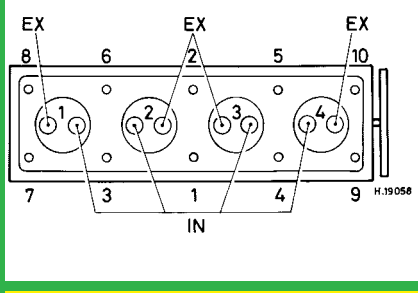
³Fiorino: +1°30' to 2°30'. 83 MY: +2°30' to 3°30'

⁴Fiorino: +3.0 to 7.0

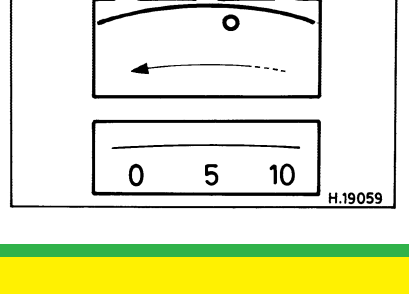
⁵Fiorino: +20' to 1°20'

1: Idle speed

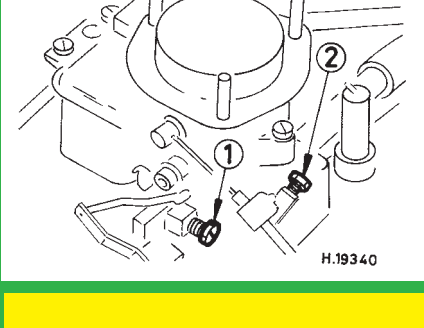
2: CO / Mixture



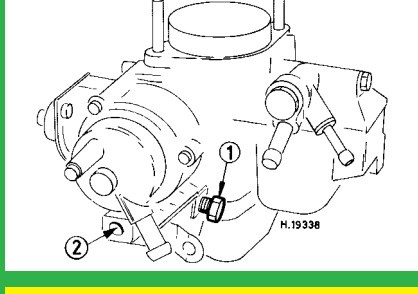
1049 cm³



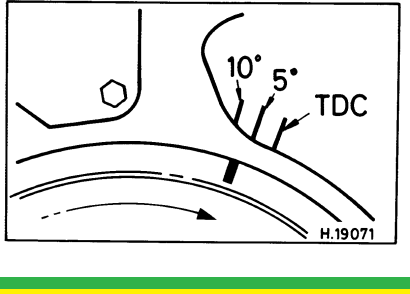
1049 cm³



Solex TDI



Weber ICEV



1049 cm³, alternative