

FIAT

Uno 60 & Selecta (1116)

1985 to 1988

Engine & Cooling

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Automotive Technical DATA BOOK

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HELP

Engine and cooling system

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Type		146 A4.048 OHC
Capacity (cm ³) / number of cylinders		1116 / 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 system

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Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	1300 [1650 to 1700]
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		Solex/Weber
Type / ref		S: C30-32 CIC. W: 30-32 DMTE ¹
Main jet / needle		S: 101, 100. W: 90, 95 ²
Injection pressure	bar	_
Pump pressure	bar	0.18
Octane rating	RON	97[R]

Ignition system

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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 @ 800 to 1200
	° Crankshaft @ rpm	11 to 15 @ 3000
	° Crankshaft @ rpm	22 to 26 @ 4400
Vacuum range check	mbar	120 to 267
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs		Bosch/Champion
Type		WR7DC / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system

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Battery	V / CC / RC	12 / 175 / 60
Alternator voltage / full load current / engine rpm		14.0 to 14.4 / _ / 3000
Starter motor current / voltage - cranking	A / V	170 / 10.3 [190 to 220 / 10.0]
- locked	A / V	340 / 7 [380 to 480/7.1 to8.5]

Running gear

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

Tyres		
Saloon	Size	135x13: 155/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±2.0 ³
Camber		+25'±30'
Castor		+2°±15'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		_

Torque wrench settings

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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	294
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities

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Engine oil & filter	litres	4.1
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	3.5
Final drive	litres	WT
Cooling system	litres	6.2
Fuel tank	litres	42

Notes and Illustrations

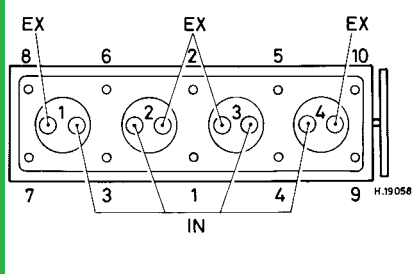
¹Selecta: W: 30-32 DMTR 122/550

²Selecta: 87, 95

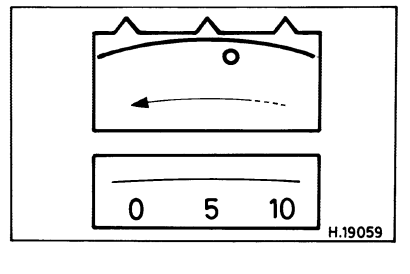
³Selecta: +1.0±1.0

1: Idle speed

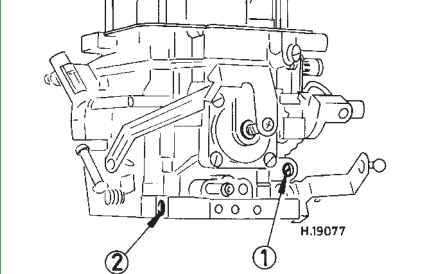
2: CO / Mixture



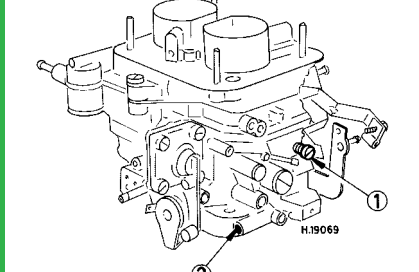
1116 cm³



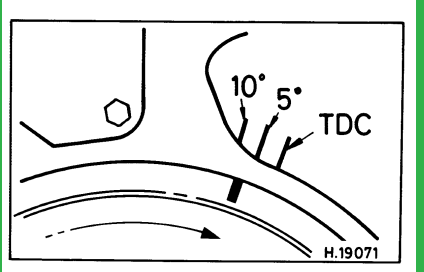
1116 cm³



Solex CIC



Weber DMTE / R



1116 cm³, alternative