

FIAT

Tipo 1.6

1988 to 1990

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling system

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1988 to 1990

Type		160 A2.000 60kW
Capacity (cm ³) / number of cylinders		1580 / 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	800 to 850
Fast idle speed - manual [auto]	rpm	1300±50
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		32-34 TLDE 5/150/550
Main jet / needle		110, 130
Injection pressure	bar	_
Pump pressure	bar	0.18
Octane rating	RON	98[E 95 RON]

Ignition system

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Type		Digiplex 2
Ignition coil		Marelli BAE 504D
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	12±1 BTDC @ idle
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	8±2 BTDC @ 500
	° Crankshaft @ rpm	40±2 @ 3000 to 6200
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	_
Spark plugs		Bosch/Champion
Type		WR6DC / RN7YC
Electrode gap	mm	0.70 to 0.80

Electrical system

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Battery	V / CC / RC	12 / 185 / 40 or / 200 / 40Ah
Alternator voltage / full load current / engine rpm		14.3 to 14.6 / _ / 3500
Starter motor current / voltage - cranking	A / V	200 / 9.8 to 10.0
- locked	A / V	440 / 7.6

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	165/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 1.9
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		+10'±30' N/A
Castor		+1°20'±30'. PAS: +2°20'±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±2.0
Camber		-1°±30'

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	M6: 17. M8: 30
Flywheel [driveplate]	Nm	83
Front hubs	Nm	250 ¹
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities

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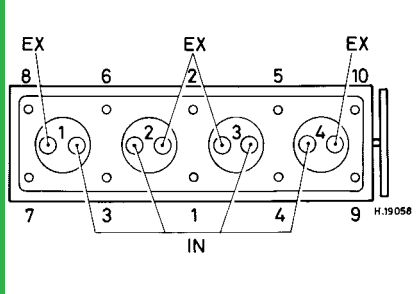
Engine oil & filter	litres	3.8
Gearbox - 4-speed [5-speed]	litres	1.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	55

Notes and Illustrations

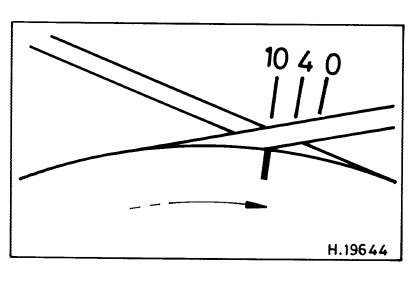
190 ►, with integral washers: 235

1: Idle speed

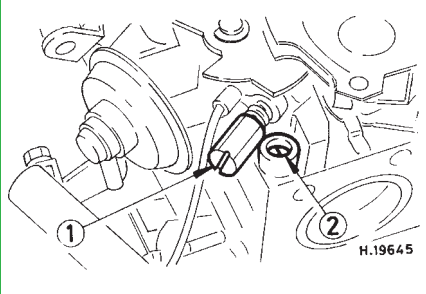
2: CO / Mixture



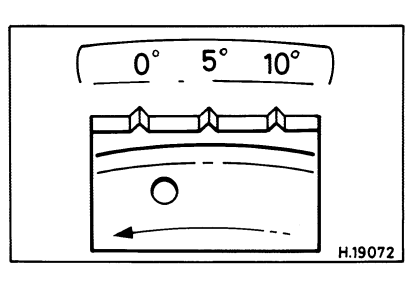
1580 cm³



1580 cm³



Weber TLDE



1580 cm³