

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & Illustrations



Automotive
Technical
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BOOK

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Engine and cooling system

Tempra 1.81993 to 1996

Type		835 C2.000 DOHC 76kW
Capacity (cm³) / number of cylinders		1756 / 4
Compression ratio / pressure	bar	9.5
Oil pressure	bar	≥1.5 [4.6]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.43±0.04
Valve clearance - exhaust	mm	0.48±0.04
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	82 to 85
Radiator cap pressure	bar	0.98

Fuel system

Tempra 1.81993 to 1996

Idle speed - manual [auto]	rpm	—
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤90
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		_Weber-Marelli
Type / ref		IAW MPI
Main jet / needle		—
Injection pressure	bar	3.0
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

Tempra 1.81993 to 1996

Type		IAW
Ignition coil		Marelli BAE 504 DK
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	N/A
V = Vacuum NV = No Vacuum		—
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs		Fiat/Champion
Type		7FYSSR / RN7YCC
Electrode gap	mm	0.85 to 0.95

Electrical system

Tempra 1.81993 to 1996

Battery	V / CC / RC	12 / 320 / 60Ah
Alternator voltage / full load current / engine rpm		14.3 to 14.6v
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Tempra 1.81993 to 1996

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

Tyres		
Saloon	Size	185/60x14
Estate / Van	Size	185/60x14
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	2.2 / 2.2

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0±1.0
Camber		10'±30'
Castor		2°40'±30'
King pin inclination		—

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

Torque wrench settings

Tempra 1.81993 to 1996

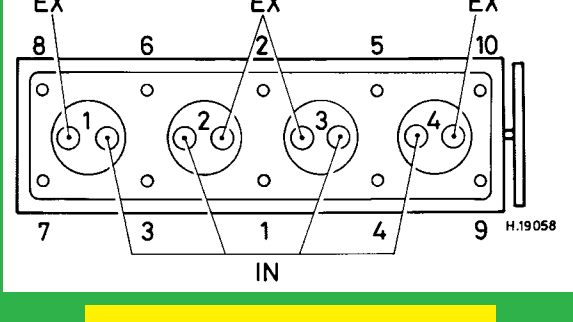
Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+90°
- stage 4	Nm	+90°
Big-end bearings	Nm	75
Main bearings	Nm	WSM
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	142
Front hubs	Nm	280
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	27

Capacities

Tempra 1.81993 to 1996

Engine oil & filter	litres	5.2
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.9
Fuel tank	litres	62

Notes and Illustrations



1756 cm³