

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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# Automotive Technical DATA BOOK

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## Engine and cooling system Tempra 1.8 1993 to 1996

Type	835 C2.000 DOHC 76kW	
Capacity (cm <sup>3</sup> ) / 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 1.8 1993 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
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	–
O <sub>2</sub> @ 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 1.8 1993 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	–
Centrifugal check.	° 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 1.8 1993 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 1.8 1993 to 1996

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5
<b>Tyres</b>		
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
<b>Front suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		10'±30'
Castor		2°40'±30'
King pin inclination		–
<b>Rear suspension / wheel alignment</b>		
Toe-in (+) / Toe-out (-)	mm [°]	-2.0±2.0
Camber		-30'±1°

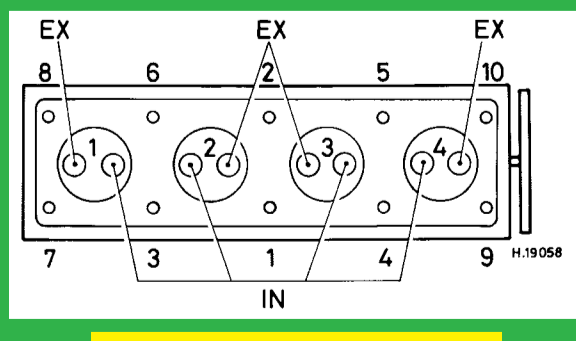
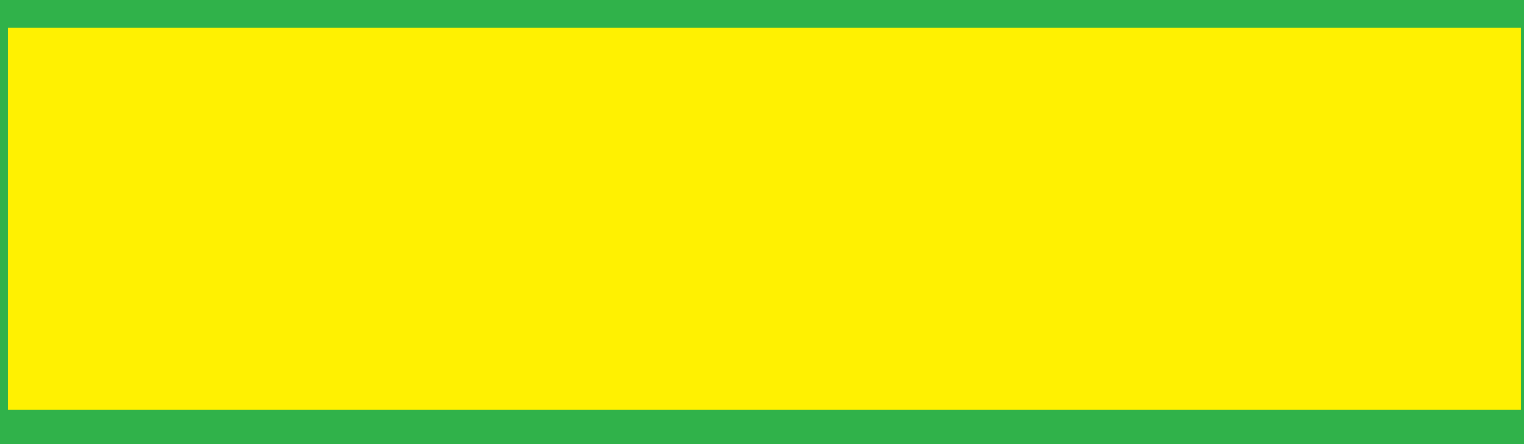
## Torque wrench settings Tempra 1.8 1993 to 1996

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 1.8 1993 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 cm<sup>3</sup>**