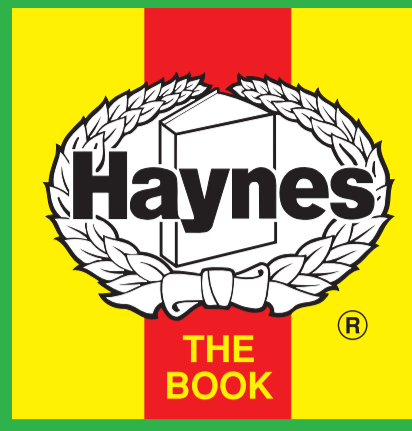


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Automotive Technical DATA BOOK

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Engine and cooling system Tempra 1.6 1993 to 1994

Type	835 C1.000 SOHC 55Kw	
Capacity (cm ³) / number of cylinders	1581 / 4	
Compression ratio / pressure	bar	9.3 / _
Oil pressure	bar	1.5 [4.6]
Oil temperature	°C	80
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	85 to 89
Radiator cap pressure	bar	0.98

Fuel system Tempra 1.6 1993 to 1994

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.35
HC @ idle speed [3000 rpm] - see page VI	ppm	≤90
CO ₂ @ idle speed [3000 rpm] - see page VI	%	≥13.0
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	_ Bosch	
Type / ref	MA1.7 Monomotronic SPI	
Main jet / needle	_	
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system Tempra 1.6 1993 to 1994

Type	Motronic	
Ignition coil	Bosch 0.221.503.407	
Primary resistance	ohms	0.45 to 0.55
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	_	
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	7GYSSR / RC7YCC	
Electrode gap	mm	0.85 to 0.95

Electrical system Tempra 1.6 1993 to 1994

Battery	V / CC / RC	12 / 255 / 55Ah
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 1.6 1993 to 1994

Brakes -

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

Tyres

Saloon	Size	175/65x14: 185/60x14
Estate / Van	Size	175/65x14: 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°	

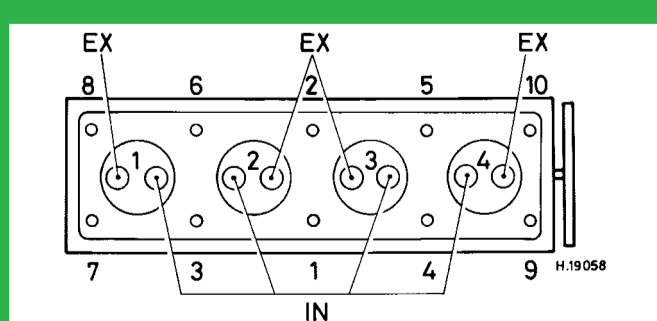
Torque wrench settings Tempra 1.6 1993 to 1994

Cylinder head - stage 1	Nm	40
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	38
Flywheel [driveplate]	Nm	83
Front hubs	Nm	240
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	37

Capacities Tempra 1.6 1993 to 1994

Engine oil & filter	litres	3.7
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	3.8
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	62

Notes and Illustrations



1581 cm³