

Engine & Cooling

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Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemTempra 1.6ie1994 to 1997

Type		835 C1.000 SOHC 67kW
Capacity (cm³) / number of cylinders		1581 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	1.5 [3.7]
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	80 to 84
Radiator cap pressure	bar	0.98

Fuel systemTempra 1.6ie1994 to 1997

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
CO2 @ idle speed [3000 rpm] - see page VI	%	≥13.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_GM
Type / ref		Multec MPI
Main jet / needle		_
Injection pressure	bar	3.00
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemTempra 1.6ie1994 to 1997

Type		DIS
Ignition coil		AC Rochester
Primary resistance	ohms	
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	10±5 BTDC @ 850±50 N/A
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	_
Spark plugs		Fiat/Champion
Type		7GYSSR / RC7YCC
Electrode gap	mm	0.85 to 0.95

Electrical systemTempra 1.6ie1994 to 1997

Battery	V / CC / RC	12 / 255 / 55Ah
Alternator voltage / full load current / engine rpm		14.3 to 14.6 / 65 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearTempra 1.6ie1994 to 1997

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

Tyres		
Saloon	Size	175/65x14
Estate / Van	Size	175/65x14
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'. Estate: 2°20'±30'
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-3.0 to +1.0
Camber		-1°±30'

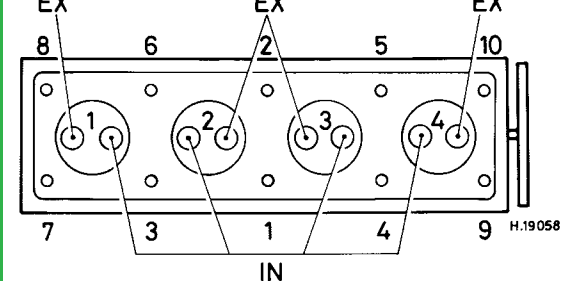
Torque wrench settingsTempra 1.6ie1994 to 1997

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	27

CapacitiesTempra 1.6ie1994 to 1997

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, 8V