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# Automotive Technical DATA BOOK

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## Engine and cooling system Punto 90 & Sporting 1994 to 1997

Type		176 A9.000 SOHC 8V 65kW
Capacity (cm <sup>3</sup> ) / number of cylinders		1581 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	[3.7]
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	85 to 89
Radiator cap pressure	bar	0.98

## Fuel system Punto 90 & Sporting 1994 to 1997

Idle speed - manual [auto]	rpm	850±50 N/A
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 <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	≥13.0
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		_GM
Type / ref		Multec / XM MPI
Main jet / needle		_
Injection pressure	bar	3.0
Pump pressure	bar	_
Octane rating	RON	95[U]

## Ignition system Punto 90 & Sporting 1994 to 1997

Type		Multec-DIS
Ignition coil		AC
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 V = Vacuum NV = No Vacuum]	° Crankshaft @ rpm	10±5 BTDC @ 850±50 N/A
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	0.80 to 0.90

## Electrical system Punto 90 & Sporting 1994 to 1997

Battery	V / CC / RC	12 / 200 / 40Ah
Alternator voltage / full load current / engine rpm		14.3 to 14.6 / 65 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

## Running gear Punto 90 & Sporting 1994 to 1997

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

<b>Tyres</b>		
Saloon	Size	175/60x14:165/65x14:185/55x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 2.0
- Estate / Van	bar	_

## Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber		-15'±30'. Sporting: -50'±30'
Castor		2°50'±30'. Sporting: +1°20'
King pin inclination		_

## Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	1.0±2.0. Sporting: +2.2±2.0
Camber		-20'±30'. Sporting: -35'±30'

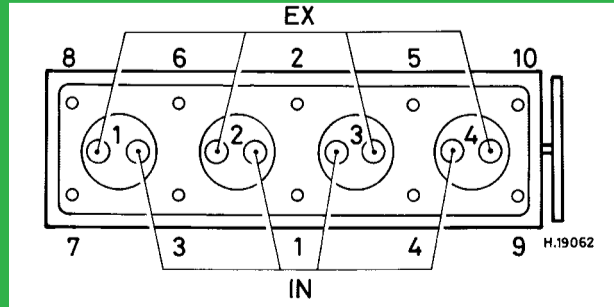
## Torque wrench settings Punto 90 & Sporting 1994 to 1997

Cylinder head - stage 1	Nm	40 small bolts: 30
- 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	_
Flywheel [driveplate]	Nm	83
Front hubs	Nm	240
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	27

## Capacities Punto 90 & Sporting 1994 to 1997

Engine oil & filter	litres	3.6
Gearbox - 4-speed [5-speed]	litres	2.37
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	5.9
Fuel tank	litres	47

## Notes and Illustrations



1581 cm<sup>3</sup>