

Engine & Cooling

Fuel

Ignition

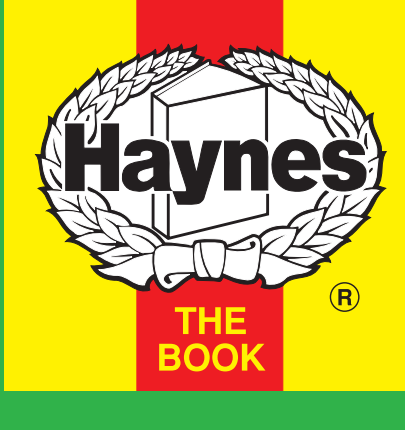
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

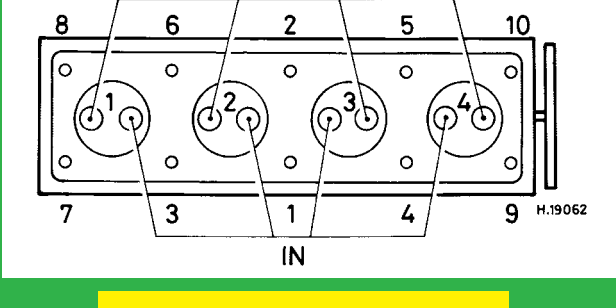
MENU

HELP

Engine and cooling system			Punto 90 & Sporting	1994 to 1997
Type			176 A9.000 SOHC 8V 65kW	
Capacity (cm³) / 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	
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 / 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		° 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	0.80 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
Brakes -				
Front (min. friction material thickness)		mm	1.5	
Rear (min. friction material thickness)		mm	1.5	
Tyres				
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 cm³