

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemPunto 551994 to 1997

Type	176 A6.000 SOHC 40kW EC91	
Capacity (cm³) / number of cylinders	1108 / 4	
Compression ratio / pressure	bar	9.6 / _
Oil pressure	bar	_
Oil temperature	°C	_
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 systemPunto 551994 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	_Weber-Marelli	
Type / ref	SPI IAW 06F.SB	
Main jet / needle	_	
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemPunto 551994 to 1997

Type	IAW Static	
Ignition coil	Marelli	
Primary resistance	ohms	0.495±0.6
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	_	
Points gap (air gap)	mm	_
Dwell angle	° (%)	N/A
Condenser capacity	µF	_
Rotation	_	
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control
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	_/Champion	
Type	RC9YCC	
Electrode gap	mm	0.85 to 0.95

Electrical systemPunto 551994 to 1997

Battery	V / CC / RC	12 / 150 / 32Ah
Alternator voltage / full load current / engine rpm	14.3 to 14.6 / 65 / _	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearPunto 551994 to 1997

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

Tyres		
Saloon	Size	155/70x13:165/65x13:165/60x14
Estate / Van	Size	155/70x16: 165/65x13
Pressure - front / rear - Saloon	bar	2.0 / 1.9
- Estate / Van	bar	2.0 / 1.9

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

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0±2.0
Camber	+15'±30'	

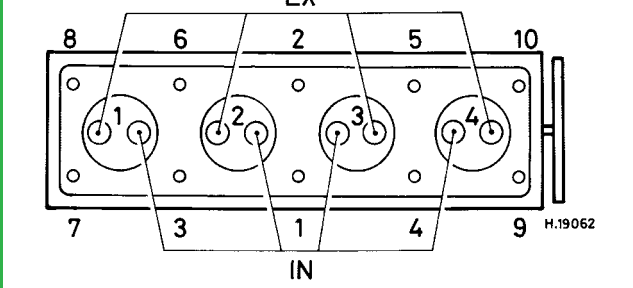
Torque wrench settingsPunto 551994 to 1997

Cylinder head - stage 1	Nm	30
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	41
Main bearings	Nm	40 + 90°
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	44
Front hubs	Nm	240
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	27

CapacitiesPunto 551994 to 1997

Engine oil & filter	litres	3.47
Gearbox - 4-speed [5-speed]	litres	2.37
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	4.6
Fuel tank	litres	47

Notes and Illustrations



1108 cm³