

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system

Punto 60

1994 to 1997

Type		176 A7.000 SOHC 43kW
Capacity (cm³) / number of cylinders		1242 / 4
Compression ratio / pressure	bar	9.8 / _
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 system

Punto 60

1994 to 1997

Idle speed - manual [auto]	rpm	850±50 Computer control
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.S3
Main jet / needle		_
Injection pressure	bar	1.0±0.006
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system

Punto 60

1994 to 1997

Type		IAW Static
Ignition coil		Marelli
Primary resistance	ohms	BAE 100
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	8±3 BTDC @ 850±50
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 system

Punto 60

1994 to 1997

Battery	V / CC / RC	12 / 200 / 40Ah or 250 / 50
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 60

1994 to 1997

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

Tyres		
Saloon	Size	165/65x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 1.9
- Estate / Van	bar	_

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

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

Torque wrench settings

Punto 60

1994 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

Capacities

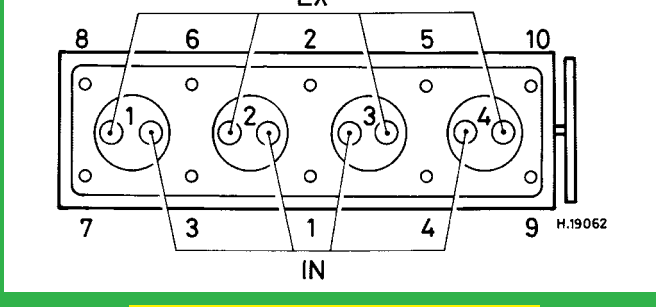
Punto 60

1994 to 1997

Engine oil & filter	litres	3.74
Gearbox - 4-speed [5-speed]	litres	2.37
Automatic transmission - refill	litres	1.8
Final drive	litres	WT
Cooling system	litres	4.6
Fuel tank	litres	47

Notes and Illustrations

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1242 cm³