

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 systemSonata 2.0 16V1992 to 1997

Type		DOHC 16V 95kW
Capacity (cm³) / number of cylinders		1997 / 4
Compression ratio / pressure	bar	10.0 / _
Oil pressure	bar	0.75
Oil temperature	°C	_
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.76 to 1.04

Fuel systemSonata 2.0 16V1992 to 1997

Idle speed - manual [auto]	rpm	750±100
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.2 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤50
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Hyundai
Type / ref		MPFI
Main jet / needle		_
Injection pressure	bar	3.30
Pump pressure	bar	3.2 to 3.4
Octane rating	RON	95[U]

Ignition systemSonata 2.0 16V1992 to 1997

Type		Computerized
Ignition coil		_
Primary resistance	ohms	0.80±0.08
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	5±2 BTDC @ 750±100
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		NGK/Champion
Type		BPR6ES-11 / RN9YC4
Electrode gap	mm	1.00 to 1.10

Electrical systemSonata 2.0 16V1992 to 1997

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 75 / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearSonata 2.0 16V1992 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	195/70x14: 205/60x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±3.0
Camber		0±30'
Castor		+2°40'±30'
King pin inclination		+13°31'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+3.0±2.0
Camber		-30'±30'

Torque wrench settingsSonata 2.0 16V1992 to 1997

Cylinder head - stage 1	Nm	35
- stage 2	Nm	100 to 110
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	50 to 53
Main bearings	Nm	65 to 70
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	130 to 140
Front hubs	Nm	196 to 255
Rear hubs	Nm	196 to 255
Wheel nuts / bolts	Nm	88 to 108
Spark plugs	Nm	20 to 30

CapacitiesSonata 2.0 16V1992 to 1997

Engine oil & filter	litres	3.7
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	4.5
Final drive	litres	WT
Cooling system	litres	7.3
Fuel tank	litres	65

Notes and Illustrations

