

Engine & Cooling

Fuel

Ignition

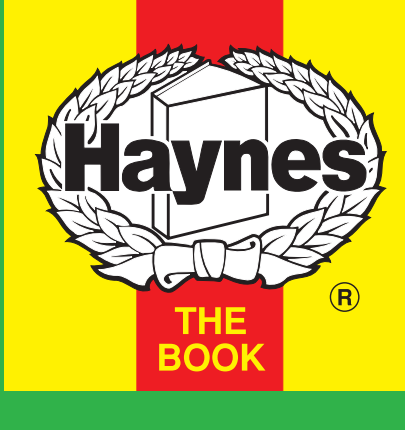
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemSonata 3.0i V61994 to 1997

Type		V6 SOHC 106kW
Capacity (cm ³) / number of cylinders		2972 / 6
Compression ratio / pressure	bar	8.9 / _
Oil pressure	bar	0.78
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-2-3-4-5-6
No 1 cylinder position		_
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	0.81 to 1.07

Fuel systemSonata 3.0i V61994 to 1997

Idle speed - manual [auto]	rpm	700±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		MPI
Main jet / needle		_
Injection pressure	bar	3.30
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemSonata 3.0i V61994 to 1997

Type		Electronic
Ignition coil		_
Primary resistance	ohms	0.86±0.09
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	5±2 BTDC @ 700±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
Type		PGKSA11
Electrode gap	mm	1.00 to 1.10

Electrical systemSonata 3.0i V61994 to 1997

Battery	V / CC / RC	12 / 68Ah
Alternator voltage / full load current / engine rpm		14.4±0.3 / 90 / _
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gearSonata 3.0i V61994 to 1997

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

Tyres		
Saloon	Size	205x15
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'

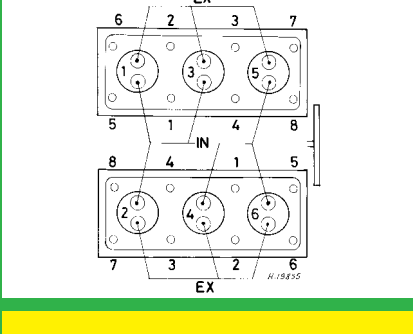
Torque wrench settingsSonata 3.0i V61994 to 1997

Cylinder head - stage 1	Nm	60
- stage 2	Nm	100
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	52
Main bearings	Nm	80
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	135
Front hubs	Nm	200 to 260
Rear hubs	Nm	200 to 260
Wheel nuts / bolts	Nm	100
Spark plugs	Nm	25

CapacitiesSonata 3.0i V61994 to 1997

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	_
Automatic transmission - refill	litres	4.5
Final drive	litres	WT
Cooling system	litres	8.6
Fuel tank	litres	65

Notes and Illustrations



2972 cm³