

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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HELP

Engine and cooling system Sonata 3.0i V6 1994 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 system Sonata 3.0i V6 1994 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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	-
O ₂ @ 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 system Sonata 3.0i V6 1994 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 system Sonata 3.0i V6 1994 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 gear Sonata 3.0i V6 1994 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'

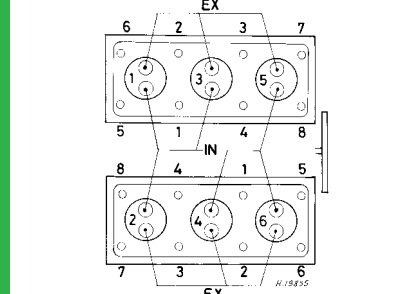
Torque wrench settings Sonata 3.0i V6 1994 to 1997

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

Capacities Sonata 3.0i V6 1994 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