

Engine & Cooling

Fuel

Ignition

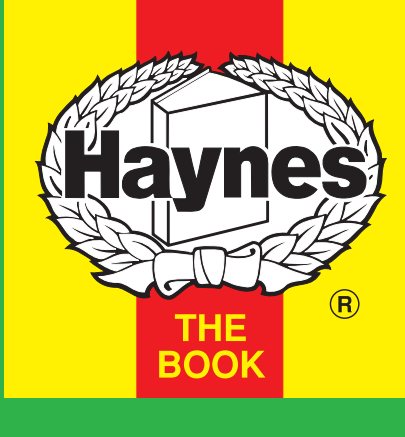
Electrical

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 2.41989 to 1992

Type		4G64 SOHC
Capacity (cm ³) / number of cylinders		2351 / 4
Compression ratio / pressure	bar	8.6 / _
Oil pressure	bar	_
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 2.41989 to 1992

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
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	_
Pump pressure	bar	3.2 to 3.4
Octane rating	RON	95[E 95 RON]

Ignition systemSonata 2.41989 to 1992

Type		Computerized
Ignition coil		MD 069937
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±1 BTDC @ 750
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° 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 2.41989 to 1992

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

Running gearSonata 2.41989 to 1992

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

Tyres		
Saloon	Size	195/70x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±3.0
Camber		+30'±30'
Castor		+2°±30'
King pin inclination		+13°25'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0
Camber		0

Torque wrench settingsSonata 2.41989 to 1992

Cylinder head - stage 1	Nm	35
- stage 2	Nm	90 to 100 C
Cylinder head - stage 3	Nm	100 to 110 H
- stage 4	Nm	_
Big-end bearings	Nm	50 to 53
Main bearings	Nm	50 to 53
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	130 to 140
Front hubs	Nm	196 to 255
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	88 to 108
Spark plugs	Nm	20 to 30

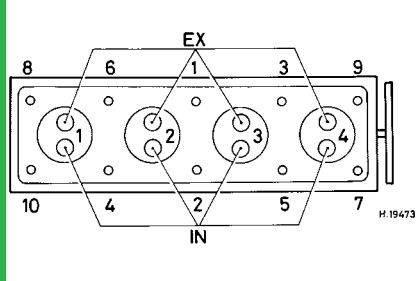
CapacitiesSonata 2.41989 to 1992

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.5
Automatic transmission - refill	litres	5.8
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	60

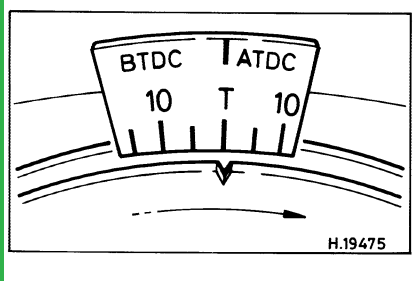
Notes and Illustrations



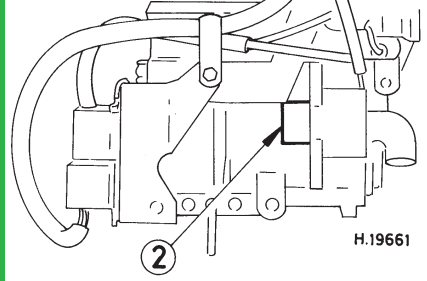
1: Idle speed 2: CO / Mixture



2351 cm³



2351 cm³



Hyundai MPi, 2351 cm³