

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

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Engine and cooling system Lantra 1.8 1996 to 1997

Type		G4GM DOHC 16V
Capacity (cm ³) / number of cylinders		1795 / 4
Compression ratio / pressure	bar	10.0 / ≥13.7
Oil pressure	bar	1.7
Oil temperature	°C	80
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	82
Radiator cap pressure	bar	0.8 to 1.1

Fuel system Lantra 1.8 1996 to 1997

Idle speed - manual [auto]	rpm	800±100
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
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	3.0
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system Lantra 1.8 1996 to 1997

Type		DIS
Ignition coil		—
Primary resistance	ohms	0.5±0.05
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 V = Vacuum NV = No Vacuum	° Crankshaft @ rpm	10°±5° BTDC @ 800±100
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		BKR5RS-11 / RN9YC4
Electrode gap	mm	1.0 to 1.1

Electrical system Lantra 1.8 1996 to 1997

Battery	V / CC / RC	60Ah
Alternator voltage / full load current / engine rpm		14.4 / 90A
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear Lantra 1.8 1996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0
Tyres		
Saloon	Size	175/65x15:195/65x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	—
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0.0±3.0
Camber		0°0'±30'
Castor		2°21'±30'
King pin inclination		12°21'±30'
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	5.0±2.0
Camber		-42'±30'

Torque wrench settings Lantra 1.8 1996 to 1997

Cylinder head - stage 1	Nm	M10: 30 M12: 35
- stage 2	Nm	+60° to 65°
Cylinder head - stage 3	Nm	+60° to 65°
- stage 4	Nm	—
Big-end bearings	Nm	50 to 53
Main bearings	Nm	27 to 33 +60° to 65°
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	120 to 130
Front hubs	Nm	200 to 260
Rear hubs	Nm	180 to 220
Wheel nuts / bolts	Nm	90 to 110
Spark plugs	Nm	20 to 30

Capacities Lantra 1.8 1996 to 1997

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.15
Automatic transmission - refill	litres	6.6
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	55

Notes and Illustrations

