

Engine & Cooling

Fuel

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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	
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	3.0	
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		° Crankshaft @ rpm	10°±5° BTDC @ 800±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			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

