

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemLantra 1.6i CAT1991 to 1995

Type		4G61-DOHC 16V (84kW [78kW])
Capacity (cm³) / number of cylinders		1596 / 4
Compression ratio / pressure	bar	9.2 / ≥9.1
Oil pressure	bar	0.8
Oil temperature	°C	90
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 systemLantra 1.6i CAT1991 to 1995

Idle speed - manual [auto]	rpm	750±100 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	100
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Hyundai
Type / ref		MPFI
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	3.2 to 3.4
Octane rating	RON	95[U]

Ignition systemLantra 1.6i CAT1991 to 1995

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±2 BTDC @ 750
V = Vacuum NV = No Vacuum		NV
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 systemLantra 1.6i CAT1991 to 1995

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.1 to 14.7 / 53, 75 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearLantra 1.6i CAT1991 to 1995

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

Tyres		
Saloon	Size	185/60x14
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		0±30'
Castor		+2°21'
King pin inclination		+12°30'

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	0
Camber		-40' N/A

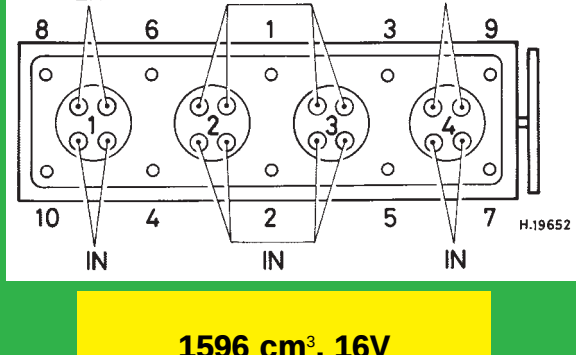
Torque wrench settingsLantra 1.6i CAT1991 to 1995

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	65 to 70
Clutch cover	Nm	15 to 22
Flywheel [driveplate]	Nm	130 to 140
Front hubs	Nm	196 to 255
Rear hubs	Nm	150 to 200
Wheel nuts / bolts	Nm	88 to 108
Spark plugs	Nm	20 to 30

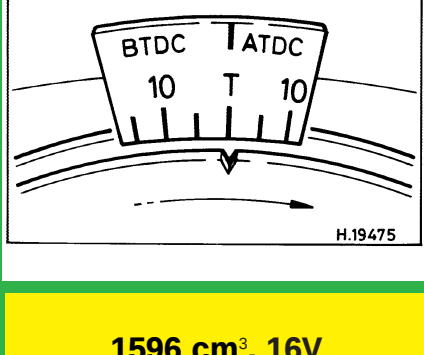
CapacitiesLantra 1.6i CAT1991 to 1995

Engine oil & filter	litres	3.7
Gearbox - 4-speed [5-speed]	litres	1.8
Automatic transmission - refill	litres	6.1
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	52

Notes and Illustrations



1596 cm³, 16V



1596 cm³, 16V