

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemAlhambra 2.01996 to 1997

Type		ADY. SOHC 8V. 85kW
Capacity (cm³) / number of cylinders		1984 / 4
Compression ratio / pressure	bar	10.0 / ≥7.5
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85 to 105
Radiator cap pressure	bar	1.4 to 1.6

Fuel systemAlhambra 2.01996 to 1997

Idle speed - manual [auto]	rpm	770 to 870 N/A
Fast idle speed - manual [auto]	rpm	2500 to 2800 N/A
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤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		_Volkswagen
Type / ref		Simos
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition systemAlhambra 2.01996 to 1997

Type		Simos
Ignition coil		—
Primary resistance	ohms	0.5 to 1.2
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	Computer control N/A
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		BKUR6ET
Electrode gap	mm	0.70 to 0.90

Electrical systemAlhambra 2.01996 to 1997

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

Running gearAlhambra 2.01996 to 1997

Brakes -		
Front (min. friction material thickness)	mm	7.0
Rear (min. friction material thickness)	mm	7.0

Tyres		
Saloon	Size	—
Estate / Van	Size	195/65x15:205/60x15:215/60x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+10' ± 20'
Camber		-20' ± 45'
Castor		3°20' ± 40'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+10' ± 25' (not Nivomat)
Camber		-20' ± 30' (not Nivomat)

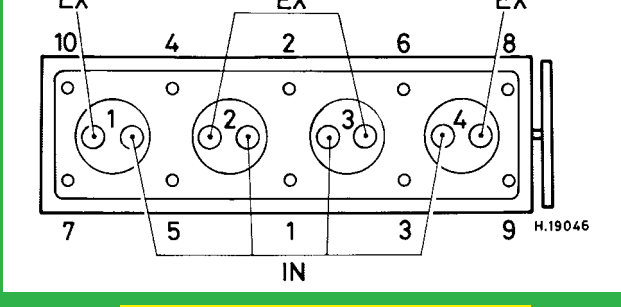
Torque wrench settingsAlhambra 2.01996 to 1997

Cylinder head - stage 1	Nm	40
- stage 2	Nm	60
- stage 3	Nm	+90°
- stage 4	Nm	+90°
Big-end bearings	Nm	30 +90°
Main bearings	Nm	65 +90°
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	60 +90°
Front hubs	Nm	150 +90°
Rear hubs	Nm	200 N
Wheel nuts / bolts	Nm	140
Spark plugs	Nm	30

CapacitiesAlhambra 2.01996 to 1997

Engine oil & filter	litres	4.7
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	7.0. 2 heat exchangers: 9.0¹
Fuel tank	litres	70

Notes and Illustrations



1984 cm³, 8V