

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemA3, 1.61996 to 1997

Type	AEH SOHC 8V 74kW	
Capacity (cm ³) / number of cylinders	1598 / 4	
Compression ratio / pressure	bar	10.2 / _
Oil pressure	bar	2.0 [4.0 to 4.5]
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	87
Radiator cap pressure	bar	1.20

Fuel systemA3, 1.61996 to 1997

Idle speed - manual [auto]	rpm	760 to 880
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3 N/A
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 MPI	
Main jet / needle	_	
Injection pressure	bar	2.5
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemA3, 1.61996 to 1997

Type	Simos	
Ignition coil	_	
Primary resistance	ohms	_
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
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-10	
Electrode gap	mm	_

Electrical systemA3, 1.61996 to 1997

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

Running gearA3, 1.61996 to 1997

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

Tyres		
Saloon	Size	_
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	_
Camber	_	
Castor	_	
King pin inclination	_	

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

Torque wrench settingsA3, 1.61996 to 1997

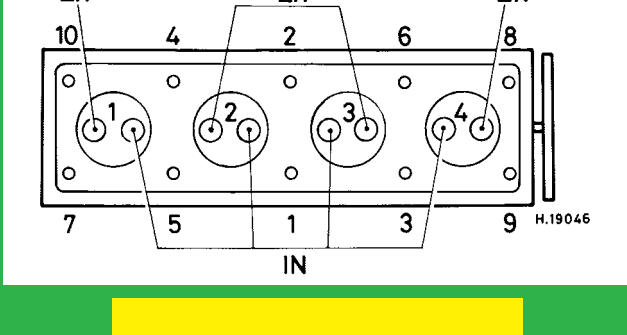
Cylinder head - stage 1	Nm	40 N
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	30 + 90° oiled N
Main bearings	Nm	40 + 90° N
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	_
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	120
Spark plugs	Nm	_

CapacitiesA3, 1.61996 to 1997

Engine oil & filter	litres	_
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	5.3
Final drive	litres	WT. AT: 0.75
Cooling system	litres	5.0
Fuel tank	litres	_

Notes and Illustrations

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1598 cm³, SOHC 8V