

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling systemXK 81996 to 1997

Type	V8 DOHC 32V 216kW	
Capacity (cm ³) / number of cylinders	3996 / 8	
Compression ratio / pressure	bar	10.75 / _
Oil pressure	bar	_
Oil temperature	°C	_
Valve clearance - inlet	mm	_
Valve clearance - exhaust	mm	_
Firing order		
No 1 cylinder position		
Thermostat opening temperature	°C	_
Radiator cap pressure	bar	_

Fuel systemXK 81996 to 1997

Idle speed - manual [auto]	rpm	_
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	_
HC @ idle speed [3000 rpm] - see page VI	ppm	_
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	_Nippon Denso	
Type / ref	EM2 SMPFI	
Main jet / needle		
Injection pressure	bar	_
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemXK 81996 to 1997

Type	Static	
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	_
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	_
Maximum vacuum advance	° Crankshaft	_
Spark plugs		
Type		
Electrode gap	mm	_

Electrical systemXK 81996 to 1997

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

Running gearXK 81996 to 1997

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

Tyres		
Saloon	Size	245/50x17
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 settingsXK 81996 to 1997

Cylinder head - stage 1	Nm	_
- stage 2	Nm	_
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	_
Main bearings	Nm	_
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	_
Front hubs	Nm	_
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	_
Spark plugs	Nm	_

CapacitiesXK 81996 to 1997

Engine oil & filter	litres	_
Gearbox - 4-speed [5-speed]	litres	_
Automatic transmission - refill	litres	_
Final drive	litres	_
Cooling system	litres	_
Fuel tank	litres	75

Notes and Illustrations

