

Engine & Cooling

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Automotive Technical
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Engine and cooling systemA4, 2.81995 to 1996

Type	AAH SOHC 12V 128kW	
Capacity (cm ³) / number of cylinders	2771 / 6	
Compression ratio / pressure	bar	10.3 / ≥7.5
Oil pressure	bar	1.0 to 2.5 [3.0 to 5.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-4-3-6-2-5	
No 1 cylinder position	—	
Thermostat opening temperature	°C	87 to 102
Radiator cap pressure	bar	1.2 to 1.5

Fuel systemA4, 2.81995 to 1996

Idle speed - manual [auto]	rpm	650 to 750 N/A
Fast idle speed - manual [auto]	rpm	N/A
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤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	_ Bosch	
Type / ref	MPI	
Main jet / needle	—	
Injection pressure	bar	3.2 to 3.8
Pump pressure	bar	3.8 to 4.2
Octane rating	RON	95[U]

Ignition systemA4, 2.81995 to 1996

Type	Computerized	
Ignition coil	—	
Primary resistance	ohms	≤5.0
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	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	—
Maximum vacuum advance	° Crankshaft	—
Spark plugs	Bosch/NGK	
Type	F7LTCR / BKUR6ET-10	
Electrode gap	mm	0.90 to 1.10

Electrical systemA4, 2.81995 to 1996

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

Running gearA4, 2.81995 to 1996

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

Tyres		
Saloon	Size	195/65x15:205/60x15:205/55x16
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.4 / 2.4
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±5']
Camber	-20'±20'. Sports: -35'±20'	
Castor	—	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±5']. Sports: [+15'±5']PW
Camber	-1°30'±20' PW	

Torque wrench settingsA4, 2.81995 to 1996

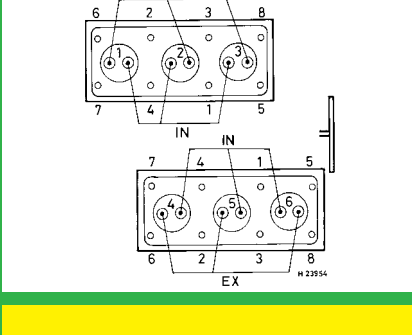
Cylinder head - stage 1	Nm	60 N
- stage 2	Nm	+ 180°
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	60 + 180°
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	60 + 90°
Front hubs	Nm	M14: 115 + 90°. M16: 190 + 90°
Rear hubs	Nm	WSM. 4x4: 115 + 90°
Wheel nuts / bolts	Nm	120
Spark plugs	Nm	30

CapacitiesA4, 2.81995 to 1996

Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	012: 2.25 / 01A: 2.75
Automatic transmission - refill	litres	2.6
Final drive	litres	WT. AT: 0.75. Rear 4x4: 1.9
Cooling system	litres	6.0
Fuel tank	litres	62

Notes and Illustrations

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2771 cm³