

Engine & Cooling

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Automotive Technical
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Engine and cooling systemA6, 1.8 20V1994 to 1997

Type	ADR DOHC 20V 92kW	
Capacity (cm ³) / number of cylinders	1781 / 4	
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	1-3-4-2	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	85
Radiator cap pressure	bar	1.2 to 1.5

Fuel systemA6, 1.8 20V1994 to 1997

Idle speed - manual [auto]	rpm	820 to 900
Fast idle speed - manual [auto]	rpm	2500 to 2800
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	_/_ Bosch	
Type / ref	M3.2-Motronic	
Main jet / needle		
Injection pressure	bar	—
Pump pressure	bar	3.5 to 4.0
Octane rating	RON	95[U]

Ignition systemA6, 1.8 20V1994 to 1997

Type	Motronic	
Ignition coil		
Primary resistance	ohms	0.5 to 1.5
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	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/Bosch	
Type	BKUR6ET / F7LTCR	
Electrode gap	mm	0.7 to 0.9. Bosch: 0.9 to 1.1

Electrical systemA6, 1.8 20V1994 to 1997

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gearA6, 1.8 20V1994 to 1997

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	2.5

Tyres		
Saloon	Size	195/65x15: 205/60x15
Estate / Van	Size	195/65x15: 205/60x15
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	1.9 / 1.9

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+15'+5'-10']
Camber	-40'+35'-25'. Sports: -50'	
Castor	+1°10'±40'	
King pin inclination	—	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+20'±10']
Camber	-50'±30'	

Torque wrench settingsA6, 1.8 20V1994 to 1997

Cylinder head - stage 1	Nm	40 N
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+ 180°
- stage 4	Nm	—
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	60 + 90°.Dual mass: 40 + 180°
Front hubs	Nm	200 + 90°
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

CapacitiesA6, 1.8 20V1994 to 1997

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	80

Notes and Illustrations

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