

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemA3, 1.8 Turbo1996 to 1997

Type	AGU DOHC 20V 110kW	
Capacity (cm³) / number of cylinders	1781 / 4	
Compression ratio / pressure	bar	9.5 / _
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	87
Radiator cap pressure	bar	1.20

Fuel systemA3, 1.8 Turbo1996 to 1997

Idle speed - manual [auto]	rpm	820 to 900 N/A
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	_ Bosch	
Type / ref	M3.2-Motronic	
Main jet / needle	_	
Injection pressure	bar	2.5
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition systemA3, 1.8 Turbo1996 to 1997

Type	Motronic Static	
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	_	
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/Bosch	
Type	BKUR6ET / F7LTCR	
Electrode gap	mm	0.7 to 0.9. Bosch: 0.9 to 1.1

Electrical systemA3, 1.8 Turbo1996 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, 1.8 Turbo1996 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	_	

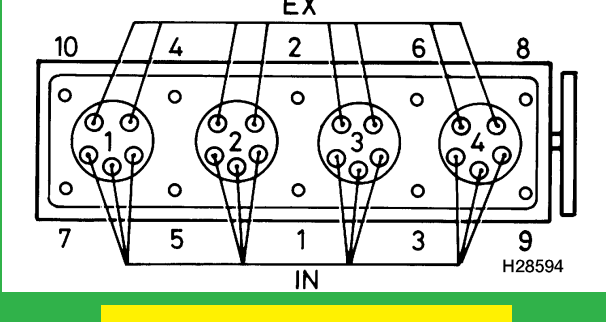
Torque wrench settingsA3, 1.8 Turbo1996 to 1997

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° oiled N
Main bearings	Nm	65
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	200, slacken, then 50 + 30°
Rear hubs	Nm	_
Wheel nuts / bolts	Nm	120
Spark plugs	Nm	30

CapacitiesA3, 1.8 Turbo1996 to 1997

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	7.0
Fuel tank	litres	_

Notes and Illustrations



1781 cm³, DOHC 20V