

Engine & Cooling

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Automotive Technical
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Engine and cooling system

106 1.6i (SPI)

1994 to 1996

Type	TU5JP/L/Z(NFZ) SOHC 8V 65kW	
Capacity (cm ³) / number of cylinders	1587 / 4	
Compression ratio / pressure	bar	9.6
Oil pressure	bar	1.0 [4.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.20
Valve clearance - exhaust	mm	0.40
Firing order	1-3-4-2	
No 1 cylinder position	FE	
Thermostat opening temperature	°C	89 to 99
Radiator cap pressure	bar	1.4

Fuel system

106 1.6i (SPI)

1994 to 1996

Idle speed - manual [auto]	rpm	850±50
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	—	
Type / ref	SPI	
Main jet / needle	—	
Injection pressure	bar	—
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system

106 1.6i (SPI)

1994 to 1996

Type	Electronic	
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 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	Bosch/Champion	
Type	RC7BMC. 96 ►: FR6KDC	
Electrode gap	mm	—

Electrical system

106 1.6i (SPI)

1994 to 1996

Battery	V / CC / RC	12 / 250 or 300 / _
Alternator voltage / full load current / engine rpm	13.8 to 14.8 / _ / 3000	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

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1994 to 1996

Brakes -		
Front (min. friction material thickness)	mm	1.0
Rear (min. friction material thickness)	mm	—

Tyres		
Saloon	Size	155/70x13: 165/65x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+0.5±0.5 PW
Camber	-46'±30'	
Castor	+2°15'±30'. PAS: +3°17'	
King pin inclination	+12°49'±40'. PAS: +12°50'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+1.95±0.9 PW
Camber	-1°34'±30'	

Torque wrench settings

106 1.6i (SPI)

1994 to 1996

Cylinder head - stage 1	Nm	20
- stage 2	Nm	+120°
Cylinder head - stage 3	Nm	+120°
- stage 4	Nm	—
Big-end bearings	Nm	40
Main bearings	Nm	20 +45°
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	60 LkC
Front hubs	Nm	250
Rear hubs	Nm	140
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	28

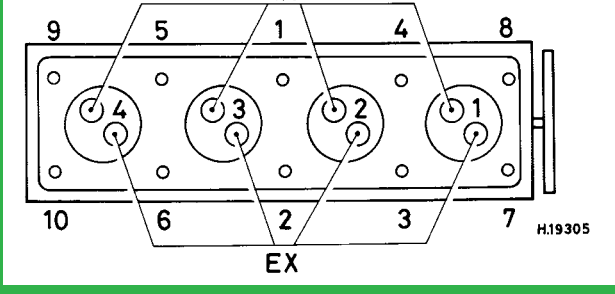
Capacities

106 1.6i (SPI)

1994 to 1996

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	6.0
Fuel tank	litres	45

Notes and Illustrations



1587 cm³, TU5 8V