

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system306 1.1i1993 to 1997

Type	TU1M/Z/L(HDZ/HDY) 44/40kW	
Capacity (cm³) / number of cylinders	1124 / 4	
Compression ratio / pressure	bar	HDZ: 9.4 HDY: 9.1
Oil pressure	bar	1.5 [3.0]
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	88
Radiator cap pressure	bar	1.4

Fuel system306 1.1i1993 to 1997

Idle speed - manual [auto]	rpm	850±50 N/A
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.3
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	≥10.0
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection	_Magneti-Marelli	
Type / ref	MMG6 Monopoint	
Main jet / needle	—	
Injection pressure	bar	0.9 to 1.1
Pump pressure	bar	—
Octane rating	RON	95[U]

Ignition system306 1.1i1993 to 1997

Type	Electronic	
Ignition coil	Valeo. Bosch 2 x BAE04	
Primary resistance	ohms	0.8
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	
Type	FR8LDC	
Electrode gap	mm	0.85 to 0.95

Electrical system306 1.1i1993 to 1997

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

Running gear306 1.1i1993 to 1997

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

Tyres		
Saloon	Size	165/70x13
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.3
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-1.0±0.5 PAS: +1.0±0.5
Camber	-20'±30'	
Castor	2°±30' PAS: 3°30'±30'	
King pin inclination	11°±30'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	2.1±0.75
Camber	-1°20'±15'	

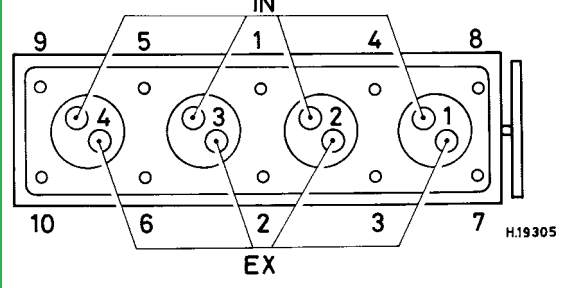
Torque wrench settings306 1.1i1993 to 1997

Cylinder head - stage 1	Nm	20
- stage 2	Nm	+240°
Cylinder head - stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	40
Main bearings	Nm	WSM
Clutch cover	Nm	15
Flywheel [driveplate]	Nm	60 LkC
Front hubs	Nm	265
Rear hubs	Nm	185
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	28

Capacities306 1.1i1993 to 1997

Engine oil & filter	litres	3.5
Gearbox - 4-speed [5-speed]	litres	—
Automatic transmission - refill	litres	—
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	—

Notes and Illustrations



1124 cm³, TU1