

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system309, 1.4i CAT1991 to 1994

Type	TU3M/Z (KDY) (58kW)	
Capacity (cm³) / number of cylinders	1360 / 4	
Compression ratio / pressure	bar	9.3 / _
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	1.0

Fuel system309, 1.4i CAT1991 to 1994

Idle speed - manual [auto]	rpm	850±50 N/A
Fast idle speed - manual [auto]	rpm	1300±50
CO @ idle speed [3000 rpm] - see page VI	%	≤0.4 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	Mono-Jetronic	
Main jet / needle	_	
Injection pressure	bar	1.0 to 1.2
Pump pressure	bar	_
Octane rating	RON	95[U]

Ignition system309, 1.4i CAT1991 to 1994

Type	Electronic	
Ignition coil	Bosch, Ducellier BTR01	
Primary resistance	ohms	0.7
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor	Bosch/Ducellier	
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	8±1 BTDC @ 850
V = Vacuum NV = No Vacuum	NV	
Total ignition advance	° Crankshaft @ rpm	C060-D049
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	3 to 5 @ 3000
	° Crankshaft @ rpm	8 to 10 @ 5000
	° Crankshaft @ rpm	11 to 13 @ 6200
Vacuum range check	mbar	200 to 480
Maximum vacuum advance	° Crankshaft	10 to 12
Spark plugs	Eyquem/Champion	
Type	RFC52LS / RC9YCC	
Electrode gap	mm	0.80

Electrical system309, 1.4i CAT1991 to 1994

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm	13.8 to 14.8 / _ / 3000	
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	_

Running gear309, 1.4i CAT1991 to 1994

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

Tyres		
Saloon	Size	145x13: 165/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.9 / 2.1
- Estate / Van	bar	_

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+0.5±0.5 PW
Camber	-30'±30'	
Castor	+2°±30'	
King pin inclination	+10°15'±30'	

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.8±0.8 PW
Camber	-50'±30'	

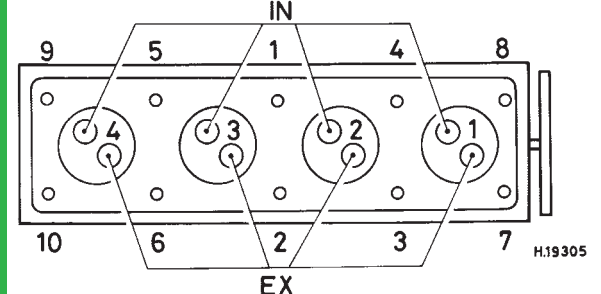
Torque wrench settings309, 1.4i CAT1991 to 1994

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	65 LkC
Front hubs	Nm	265
Rear hubs	Nm	215
Wheel nuts / bolts	Nm	85
Spark plugs	Nm	28

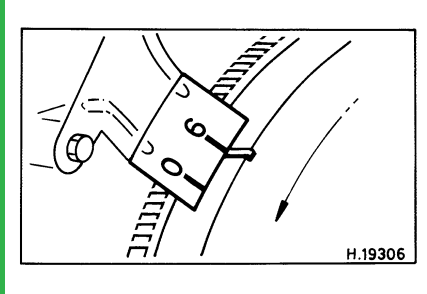
Capacities309, 1.4i CAT1991 to 1994

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	7.5
Fuel tank	litres	55

Notes and Illustrations



1360 cm³



1360 cm³