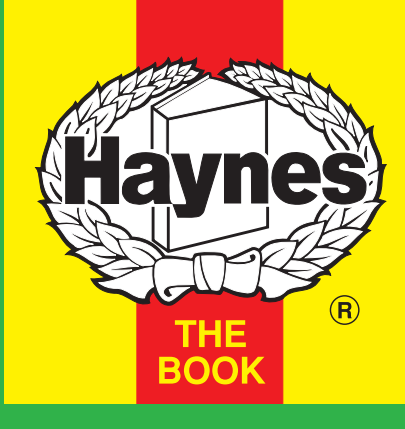


Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical
DATA BOOK

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HELP

Engine and cooling systemThema 2000ie 16V CAT1992 to 1993

Type		834 B2.246 16V 104kW US83
Capacity (cm³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	9.85 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.32±0.03
Valve clearance - exhaust	mm	0.32±0.03
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	81 to 85
Radiator cap pressure	bar	0.98

Fuel systemThema 2000ie 16V CAT1992 to 1993

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	_
HC @ idle speed [3000 rpm] - see page VI	ppm	_
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LE3.2-Jetronic
Main jet / needle		_
Injection pressure	bar	2.5±0.2
Pump pressure	bar	≤6.0
Octane rating	RON	95[U]

Ignition systemThema 2000ie 16V CAT1992 to 1993

Type		Digiplex 2¹
Ignition coil		Marelli BAE 800AK
Primary resistance	ohms	0.50 to 0.61
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	17±2 BTDC @ 850±50
V = Vacuum NV = No Vacuum		
Total ignition advance	° Crankshaft @ rpm	39±2 BTDC @ 3000 to 3500
	° 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		Champion
Type		RN7YCC
Electrode gap	mm	0.85 to 0.95

Electrical systemThema 2000ie 16V CAT1992 to 1993

Battery	V / CC / RC	12 / 320 / 60Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.6 / _ / 3500
Starter motor current / voltage - cranking	A / V	360 to 380 / 8.2 to 8.5
- locked	A / V	680 to 730 / 4.8 to 5.2

Running gearThema 2000ie 16V CAT1992 to 1993

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	175/70x14: 195/60x14
Estate / Van	Size	185/70x14: 195/60x14
Pressure - front / rear - Saloon	bar	2.0 / 2.0²
- Estate / Van	bar	2.3 / 2.4

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±1.0
Camber		-40' to 0 N/A
Castor		+2°30' to 3°10' N/A³
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+2.0 to 5.0 N/A
Camber		-40' to 0 N/A

Torque wrench settingsThema 2000ie 16V CAT1992 to 1993

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	25 + 50°
Main bearings	Nm	20⁴
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	142
Front hubs	Nm	450⁵
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	98
Spark plugs	Nm	25 to 30

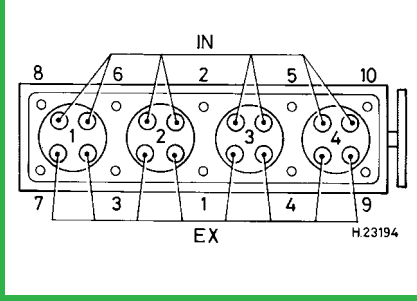
CapacitiesThema 2000ie 16V CAT1992 to 1993

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	4.4
Final drive	litres	WT
Cooling system	litres	8.2
Fuel tank	litres	70

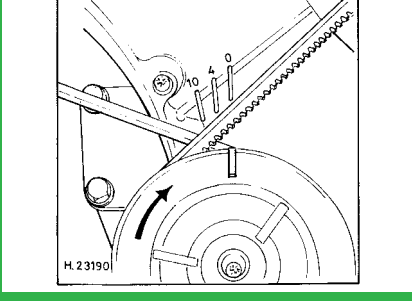
Notes and Illustrations

- ¹MED 440A
²195/60x14: 2.2 / 2.2
³With variable ratio steering: +1° to 1°40'
⁴Centre bearing: + 130°, others: + 90°
⁵Nuts with integral washers: 360

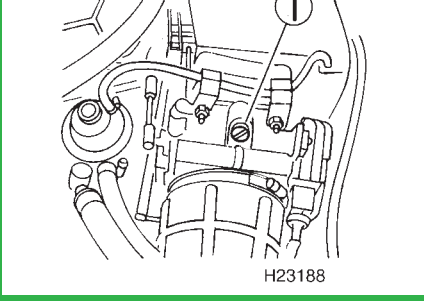
1: Idle speed2: CO / Mixture



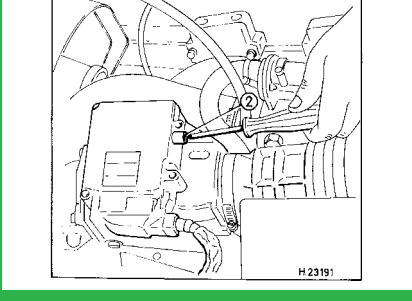
1995 cm³, 16V



1995 cm³, 16V



LE3.2-Jetronic



LE3.2-Jetronic