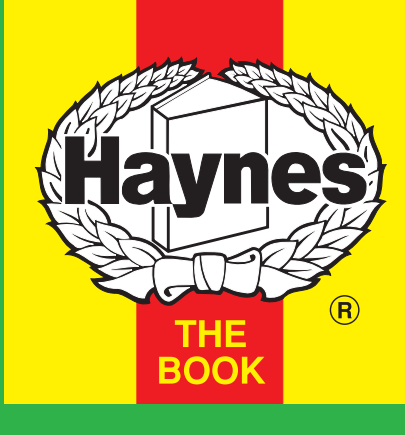




Automotive Technical

DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

Thema 2000ie 16V

1989 to 1993

Type		834 B2.000 DOHC 16V 108kW
Capacity (cm ³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	9.85±0.15 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.38±0.03
Valve clearance - exhaust	mm	0.43±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 system

Thema 2000ie 16V

1989 to 1993

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
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	98[E 95 RON]

Ignition system

Thema 2000ie 16V

1989 to 1993

Type		Digiplex 2 ¹
Ignition coil		Marelli BAE 800AK Dual
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 system

Thema 2000ie 16V

1989 to 1993

Battery	V / CC / RC	12 / 320 / 60Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.6 / 65, 90 / 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 gear

Thema 2000ie 16V

1989 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 / 2.0 ²
- 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/A ³
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 settings

Thema 2000ie 16V

1989 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	20 ⁴
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	142
Front hubs	Nm	450 ⁵
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	98
Spark plugs	Nm	25 to 30

Capacities

Thema 2000ie 16V

1989 to 1993

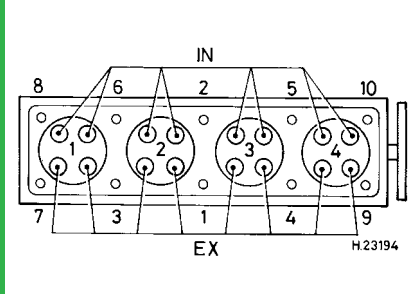
Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	4.4
Final drive	litres	WT
Cooling system	litres	8.2
Fuel tank	litres	70

Notes and Illustrations

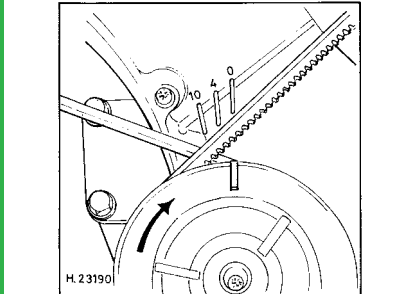
- ¹MED 440A
- ²195/60x14: 2.2 / 2.2
- ³With variable ratio steering: +1° to 1°40'
- ⁴Centre bearing: + 130°, others: + 90°
- ⁵Nuts with integral washers: 360

1: Idle speed

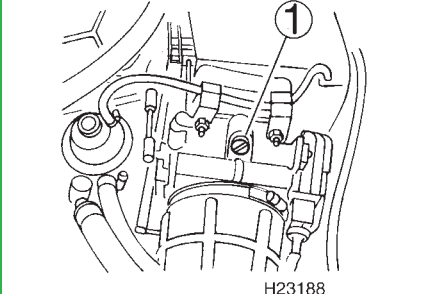
2: CO / Mixture



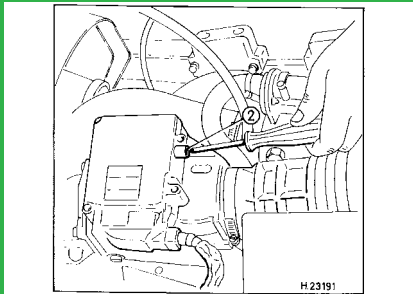
1995 cm³, DOHC 16V



1995 cm³, DOHC 16V



LE3.2-Jetronic



LE3.2-Jetronic