

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemThema Turbo ie1985 to 1989

Type		834 C.000 DOHC 8V
Capacity (cm³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	8.0 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.35±0.04
Valve clearance - exhaust	mm	0.40±0.04
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 Turbo ie1985 to 1989

Idle speed - manual [auto]	rpm	750±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±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		LE2-Jetronic
Main jet / needle		_
Injection pressure	bar	3.0±0.2
Pump pressure	bar	≤6.0
Octane rating	RON	98[L]

Ignition systemThema Turbo ie1985 to 1989

Type		Microplex ¹
Ignition coil		Marelli AEI 500B
Primary resistance	ohms	0.31 to 0.38
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	10 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	44 BTDC @ 4500
	° 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		WR6DC / RN7YC
Electrode gap	mm	0.60 to 0.70

Electrical systemThema Turbo ie1985 to 1989

Battery	V / CC / RC	12 / 255 / 85
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / _ / 3500
Starter motor current / voltage - cranking	A / V	270 / 9.2
- locked	A / V	530 to 570 / 6.6

Running gearThema Turbo ie1985 to 1989

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

Tyres		
Saloon	Size	195/60x14: 205/60x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	_

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

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	+1.0 to 4.0
Camber		-40' to 0 N/A

Torque wrench settingsThema Turbo ie1985 to 1989

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 + 90°
Main bearings	Nm	20 ²
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	142
Front hubs	Nm	360
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	88
Spark plugs	Nm	37

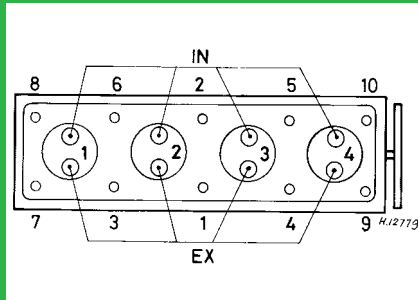
CapacitiesThema Turbo ie1985 to 1989

Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	1.8 to 2.1
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	9.6
Fuel tank	litres	70

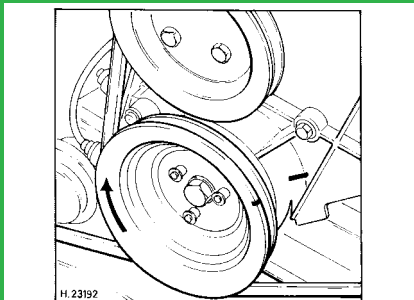
Notes and Illustrations

¹MED 601B
²Centre bearing: + 120°, others: + 80°

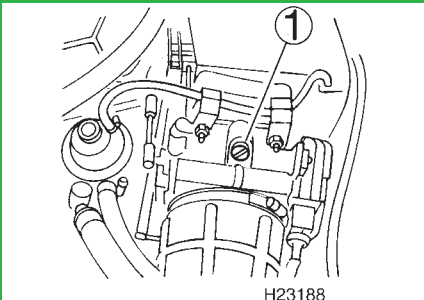
1: Idle speed 2: CO / Mixture



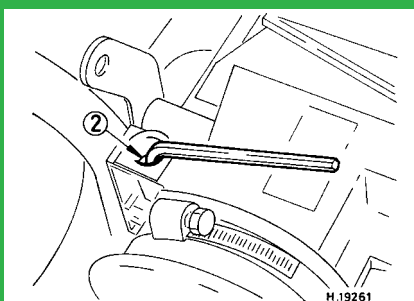
1995 cm³, DOHC 8V



1995 cm³, DOHC 8V



LE2-Jetronic



LE2-Jetronic