

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



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 systemThema FL ie CAT1992 to 1994

Type		834 B.146 DOHC 8V 84.5kW US83
Capacity (cm³) / number of cylinders		1995 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.39±0.04
Valve clearance - exhaust	mm	0.46±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 FL ie CAT1992 to 1994

Idle speed - manual [auto]	rpm	750±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	%	≥12.0. Ex: ≥13.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		LU2-Jetronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition systemThema FL ie CAT1992 to 1994

Type		Digiplex 2
Ignition coil		Marelli BAE 504D
Primary resistance	ohms	0.405 to 0.495
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±2 BTDC @ 850±50
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° 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 FL ie CAT1992 to 1994

Battery	V / CC / RC	12 / 320 / 60Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 90 / 3500
Starter motor current / voltage - cranking	A / V	360 to 380 / 8.15 to 8.5
- locked	A / V	680 to 730 / 4.8 to 5.2

Running gearThema FL ie CAT1992 to 1994

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	_
Pressure - front / rear - Saloon	bar	2.0 / 2.0¹
- 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 FL ie CAT1992 to 1994

Cylinder head - stage 1	Nm	20
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	25 + 50°
Main bearings	Nm	20²
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	142
Front hubs	Nm	360
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	98
Spark plugs	Nm	37

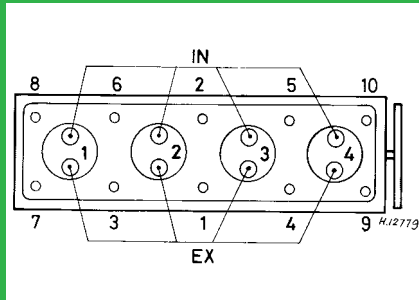
CapacitiesThema FL ie CAT1992 to 1994

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	8.2
Fuel tank	litres	65

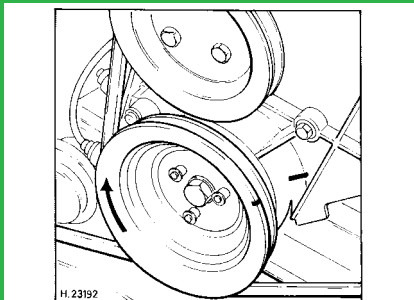
Notes and Illustrations

¹195/60x14: 2.2 / 2.2
²Centre bearing: + 130°. Others: + 90°

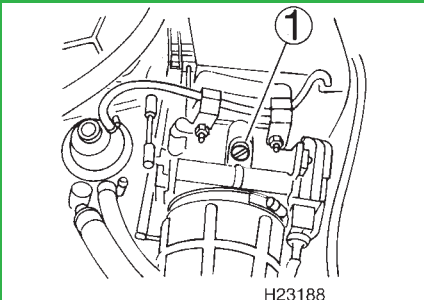
1: Idle speed 2: CO / Mixture



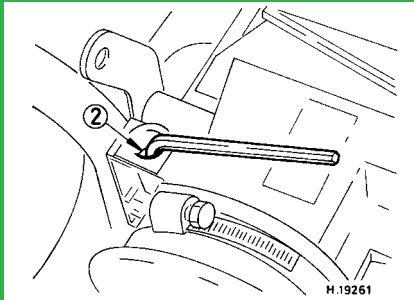
1995 cm³, DOHC 8V



1995 cm³, DOHC 8V



LU2-Jetronic



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