

Engine & Cooling

Fuel

Ignition

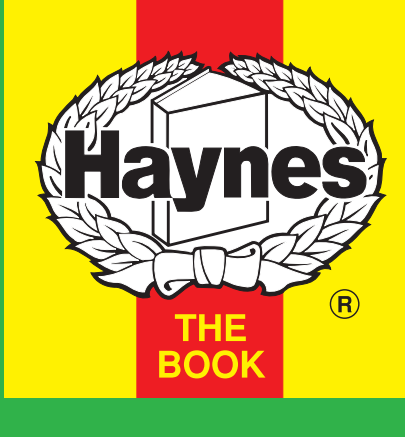
Electrical

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Engine and cooling systemThema FL V6 CAT1992 to 1994

Type		834 F.000 SOHC 126kW US83
Capacity (cm³) / number of cylinders		2959 / 6
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	≥1.0 [≥4.5]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.48 to 0.50
Valve clearance - exhaust	mm	0.23 to 0.25
Firing order		1-4-2-5-3-6
No 1 cylinder position		FL
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.98

Fuel systemThema FL V6 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		M1.7-Motronic 0 261 200 662
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	3.0
Octane rating	RON	95[U]

Ignition systemThema FL V6 CAT1992 to 1994

Type		Motronic Static
Ignition coil		Bosch 0 221 503 417 (6 output)
Primary resistance	ohms	0.45 to 0.55
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		_
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	7.5±1 BTDC @ 750±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		RN7YC
Electrode gap	mm	0.70 to 0.80

Electrical systemThema FL V6 CAT1992 to 1994

Battery	V / CC / RC	12 / 320 / 60Ah
Alternator voltage / full load current / engine rpm		14.4 to 14.7 / 120 / 3500
Starter motor current / voltage - cranking	A / V	270 / 9.2
- locked	A / V	530 to 570 / 6.6

Running gearThema FL V6 CAT1992 to 1994

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

Tyres		
Saloon	Size	195/60x15: 205/55x15
Estate / Van	Size	195/60x15: 205/55x15
Pressure - front / rear - Saloon	bar	2.2 / 2.2
- Estate / Van	bar	2.1 / 2.1¹

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 4.0²
Camber		-40' to 0 N/A

Torque wrench settingsThema FL V6 CAT1992 to 1994

Cylinder head - stage 1	Nm	25
- stage 2	Nm	+ 240°
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	56
Main bearings	Nm	88 oiled
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	122 locked
Front hubs	Nm	360
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	98
Spark plugs	Nm	32

CapacitiesThema FL V6 CAT1992 to 1994

Engine oil & filter	litres	6.6
Gearbox - 4-speed [5-speed]	litres	2.3
Automatic transmission - refill	litres	3.0
Final drive	litres	WT
Cooling system	litres	10.0
Fuel tank	litres	65

Notes and Illustrations

¹205/55x15: 2.3 / 2.4
²SW: +2.0 to 5.0

