

Engine & Cooling

Fuel

Ignition

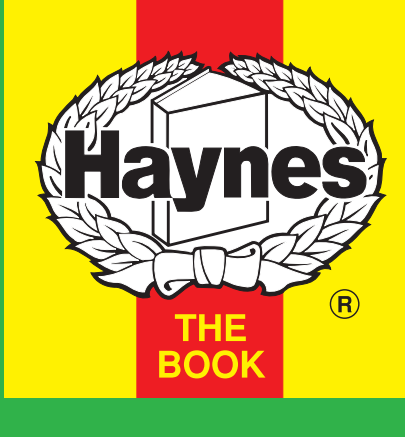
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling systemThema V6 CAT1991 to 1992

Type		834 E.146 SOHC 108kW US83
Capacity (cm³) / number of cylinders		2849 / 6
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.10 to 0.15
Valve clearance - exhaust	mm	0.23 to 0.28
Firing order		1-6-3-5-2-4
No 1 cylinder position		FL
Thermostat opening temperature	°C	85
Radiator cap pressure	bar	0.98

Fuel systemThema V6 CAT1991 to 1992

Idle speed - manual [auto]	rpm	760±20
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.4 to 0.8
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		LH2.2-Jetronic
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	2.5±0.2
Octane rating	RON	95[U]

Ignition systemThema V6 CAT1991 to 1992

Type		EZ 115K
Ignition coil		Bosch 0 221 118 398
Primary resistance	ohms	0.72
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	[0.50]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	12 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Vacuum range check	mbar	_
Maximum vacuum advance	° Crankshaft	≤20±2
Spark plugs		Bosch
Type		HR6DS
Electrode gap	mm	0.60 to 0.70

Electrical systemThema V6 CAT1991 to 1992

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 85, 115 / 3500
Starter motor current / voltage - cranking	A / V	270 / 9.2
- locked	A / V	530 to 570 / 6.6

Running gearThema V6 CAT1991 to 1992

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

Tyres		
Saloon	Size	185/70x14: 195/60x14
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 V6 CAT1991 to 1992

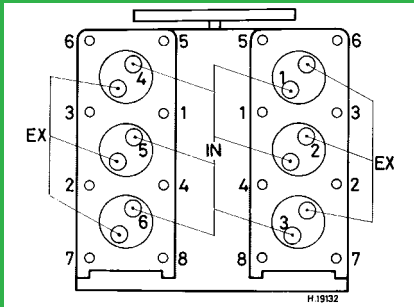
Cylinder head - stage 1	Nm	60, then slacken
- stage 2	Nm	20
Cylinder head - stage 3	Nm	+ 105°¹
- stage 4	Nm	_
Big-end bearings	Nm	48
Main bearings	Nm	38 + 75°
Clutch cover	Nm	_
Flywheel [driveplate]	Nm	50 locked
Front hubs	Nm	450
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	98
Spark plugs	Nm	20

CapacitiesThema V6 CAT1991 to 1992

Engine oil & filter	litres	6.6
Gearbox - 4-speed [5-speed]	litres	_
Automatic transmission - refill	litres	3.0
Final drive	litres	WT
Cooling system	litres	6.0
Fuel tank	litres	70

Notes and Illustrations

¹Warm up engine, allow to cool for 2 hours, then + 45°



2849 cm³