

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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Automotive Technical DATA BOOK

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Engine and cooling system 240, 2.3i CAT 1990 to 1992

Type		B230F. SOHC 8V. 85kW
Capacity (cm ³) / number of cylinders		2316 / 4
Compression ratio / pressure	bar	9.8 / ≥9.2
Oil pressure	bar	1.0 [2.5 to 8.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.30 to 0.40 H
- exhaust	mm	0.30 to 0.40 H
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	86 to 88 or 91 to 93
Radiator cap pressure	bar	0.66 to 0.87

Fuel system 240, 2.3i CAT 1990 to 1992

Idle speed - manual [auto]	rpm	775±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	0.4 to 0.8 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch
Type / ref		L3.1-Jetronic
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	1.9 to 3.0
Octane rating	RON	95[U]

Ignition system 240, 2.3i CAT 1990 to 1992

Type		EZ 116K
Ignition coil		Bosch
Primary resistance	ohms	0.6 to 0.8
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	12 BTDC @ 775±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		Bosch/Champion
Type		WR7DC / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system 240, 2.3i CAT 1990 to 1992

Battery	V / CC / RC	12 / 450 / 90
Alternator voltage / full load current / engine rpm		Various
Starter motor current / voltage - cranking	A / V	Various
- locked	A / V	Various

Running gear 240, 2.3i CAT 1990 to 1992

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	3.0

Tyres		
Saloon	Size	175x14: 185/70x14: 195/60x15
Estate / Van	Size	185x14: 195/60x15
Pressure - front / rear - Saloon	bar	1.8 / 1.9
- Estate / Van	bar	1.9 / 2.1. 195/60: 1.8 / 2.1

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+24'±8'] PAS: [+16'±8']
Camber		+15' to 1°
Castor		+2° to 3° PAS: +3° to 4°
King pin inclination		—

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	—
Camber		—

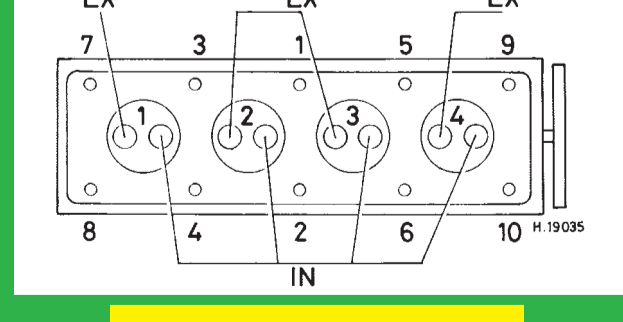
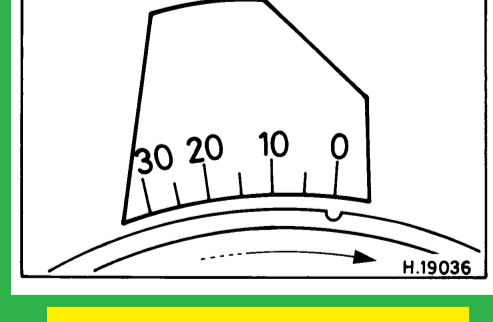
Torque wrench settings 240, 2.3i CAT 1990 to 1992

Cylinder head - stage 1	Nm	20
- stage 2	Nm	60
- stage 3	Nm	+ 90°
- stage 4	Nm	—
Big-end bearings	Nm	20 + 90°
Main bearings	Nm	110
Clutch cover	Nm	—
Flywheel [driveplate]	Nm	70 N
Front hubs	Nm	68, - 120° & lock
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	115
Spark plugs	Nm	20 to 30

Capacities 240, 2.3i CAT 1990 to 1992

Engine oil & filter	litres	3.85
Gearbox - 4-speed [5-speed]	litres	1.6
Automatic transmission - refill	litres	3.9
Final drive	litres	1.6. 1031 later: 1.75
Cooling system	litres	8.5
Fuel tank	litres	60

Notes and Illustrations

2316 cm³2316 cm³