

Engine & Cooling

Fuel

Ignition

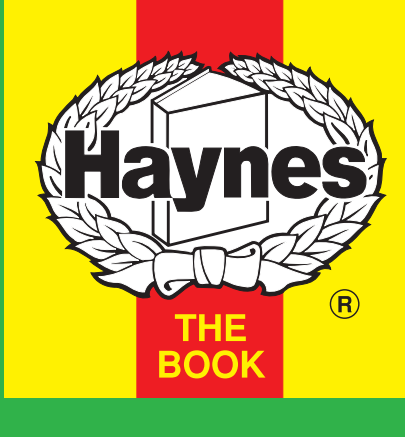
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling system

Uno 1.0ie & Van CAT 1992 to 1996

Type		156 A2.246 OHC 33kW US83
Capacity (cm³) / number of cylinders		999 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.30±0.05
Valve clearance - exhaust	mm	0.40±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	87±2
Radiator cap pressure	bar	0.98

Fuel system

Uno 1.0ie & Van CAT 1992 to 1996

Idle speed - manual [auto]	rpm	800 to 900
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	≤0.35
HC @ idle speed [3000 rpm] - see page VI	ppm	≤90
CO2 @ idle speed [3000 rpm] - see page VI	%	≥13.0
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch
Type / ref		Mono-Jetronic SPI
Main jet / needle		_
Injection pressure	bar	_
Pump pressure	bar	1.1
Octane rating	RON	95[U]

Ignition system

Uno 1.0ie & Van CAT 1992 to 1996

Type		Electronic
Ignition coil		Marelli BAE 506D / Iskra 1708
Primary resistance	ohms	0.666 to 0.814
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		Clockwise
Ignition timing - basic [static ° Crankshaft @ rpm V = Vacuum NV = No Vacuum		2±2 BTDC @ 800 to 900 NV
Total ignition advance	° Crankshaft @ rpm	15±2 BTDC @ 800 to 900
	° 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		RN9YCC
Electrode gap	mm	0.85 to 0.95

Electrical system

Uno 1.0ie & Van CAT 1992 to 1996

Battery	V / CC / RC	12 / 150 / 32Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.5 / 45, 55 / 3500
Starter motor current / voltage - cranking	A / V	180 to 190 / 9.1 to 10.4
- locked	A / V	324 to 420 / 7.1 to 8.5

Running gear

Uno 1.0ie & Van CAT 1992 to 1996

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

Tyres		
Saloon	Size	135x13: 155/70x13
Estate / Van	Size	135x13
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	1.9 / 1.9

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	+1.0±1.0
Camber		-30'±30' N/A
Castor		+2°10'±15' N/A
King pin inclination		_

Rear suspension / wheel alignment

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

Torque wrench settings

Uno 1.0ie & Van CAT 1992 to 1996

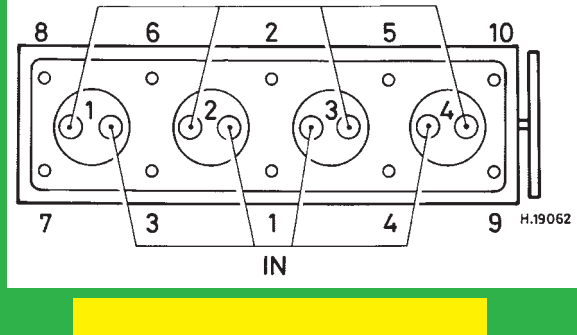
Cylinder head - stage 1	Nm	30
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	41
Main bearings	Nm	40 + 90°
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	44
Front hubs	Nm	294
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities

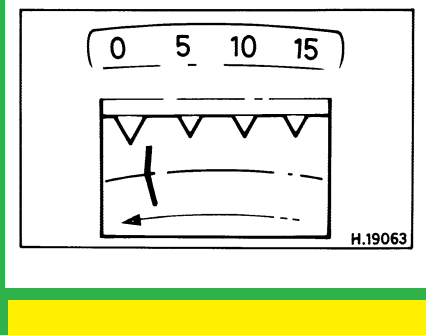
Uno 1.0ie & Van CAT 1992 to 1996

Engine oil & filter	litres	3.75
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	4.6
Fuel tank	litres	38

Notes and Illustrations



999 cm³



999 cm³