

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Uno 1.4ie CAT

1990 to 1995

Type		160 A1.046 SOHC 51kW US83
Capacity (cm³) / number of cylinders		1372 / 4
Compression ratio / pressure	bar	9.2 / _
Oil pressure	bar	[3.4 to 4.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.40±0.05
Valve clearance - exhaust	mm	0.50±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.98

Fuel system

Uno 1.4ie CAT

1990 to 1995

Idle speed - manual [auto]	rpm	800 to 900 N/A
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	0.4 to 1.0. Ex: ≤0.35 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤600. Ex: ≤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	1.06±0.06
Pump pressure	bar	1.1±0.1
Octane rating	RON	95[U]

Ignition system

Uno 1.4ie CAT

1990 to 1995

Type		Digiplex 2-Static
Ignition coil		Marelli BAE 504 D
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		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	4±2 BTDC @ 800 to 850 N/A
V = Vacuum NV = No Vacuum		_
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	46±2 @ 4500
	° 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		WR7DTC / RN9YCC
Electrode gap	mm	0.85 to 0.95 ¹

Electrical system

Uno 1.4ie CAT

1990 to 1995

Battery	V / CC / RC	12 / 200 / 40Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.3 / 65 / 3500
Starter motor current / voltage - cranking	A / V	200 / 9.8 to 10.0
- locked	A / V	440 / 7.6

Running gear

Uno 1.4ie CAT

1990 to 1995

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

Tyres		
Saloon	Size	155/70x13
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 1.9
- Estate / Van	bar	_

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

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		_

Torque wrench settings

Uno 1.4ie CAT

1990 to 1995

Cylinder head - stage 1	Nm	20 ²
- stage 2	Nm	40 ²
Cylinder head - stage 3	Nm	+ 90 ^{°2}
- stage 4	Nm	+ 90 ^{°2}
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	83
Front hubs	Nm	294
Rear hubs	Nm	216
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities

Uno 1.4ie CAT

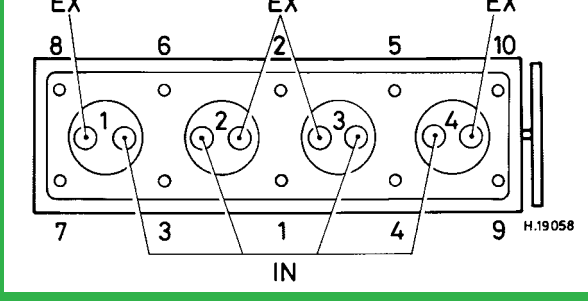
1990 to 1995

Engine oil & filter	litres	3.7
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	6.2
Fuel tank	litres	38

Notes and Illustrations

¹WR7DTC: 0.90 to 1.00

²M8 bolts: 30



1372 cm³